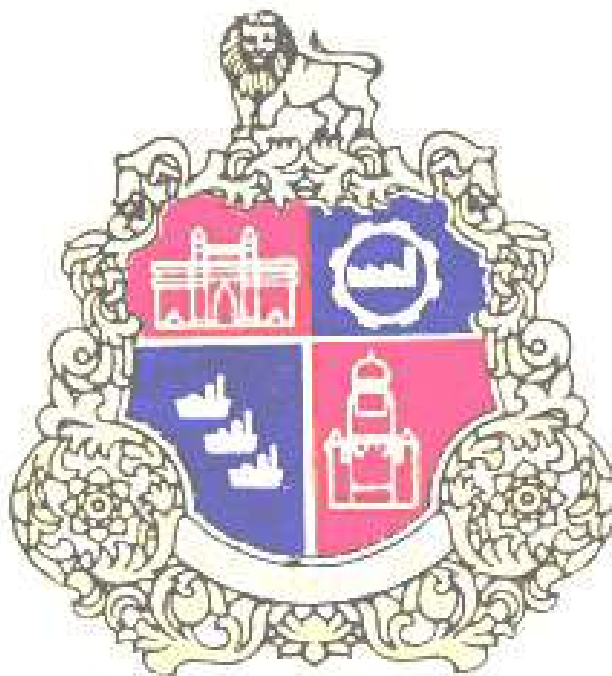


MUNICIPAL CORPORATION OF GREATER MUMBAI

CITY ENGINEER'S AND CHIEF ENGINEER'S DEPARTMENT (BM)



VOLUME-I

**UNIFIED SCHEDULE OF RATES FOR
COMMON AND BUILDING CONSTRUCTION WORKS**

2018

PREFACE

Ever since establishment of Bombay Municipal Corporation (now Municipal Corporation Of Greater Mumbai) in 1888 by the erstwhile British rulers in India , in the last 125 years of the history of its existence M.C.G.M. has catered to every aspect of the citizen of Mumbai that can be conceived of. Look to heritage buildings like Victoria Terminus (Chhatrapati Shivaji Terminus), Office of Municipal Corporation, Dadabai Naoroji Road, Dr. Babasaheb Ambedkar Road, Marine Drive (Netaji Subhash Road), Prince of Wales Museum, Gateway of India, Malabar Hill Reservoir, Nair Hospital, Lokmanya Tilak Hospital, K.E.M. Hospital etc which are the service centers for the citizens. Municipal Services have also been provided in the suburban and extended suburban areas merged in 1950 & 1957 respectively. The obligatory duties are performed well but still there is need to improve in quantity and quality of services to be provided to the citizens.

Ethical governance and righteous work culture will certainly bring positive changes in design and implementation of projects. One may take an example of the first Municipal Head Quarter Building, that was completed in year 1893, in four years, designed by F W Stevens and the execution part was dealt by Project Engineer Shri RaoSaheb Sitaram Khanderrao Vaidya, who executed the project of 77.70m high structure and saved Rs.68,000/- as against estimated cost of Rs. 11.80 Lakhs.

The need is to work with precision and accuracy. There shall be harmony between planning and execution so as to evolve best economics with focused goals.

M.C.G.M. is one of the largest local self government in the Asian Continent. In observance of historic traditions of strong civic activism, with the change in time and living conditions to match with the urbanization, M.C.G.M. has focused in providing variety of engineering services viz, storm water drain, sewerage, water supply, roads, bridges, solid waste management, environmental services. Beside this, the Corporation is also providing dedicated services in the Health sector by establishing Major and Peripheral hospitals.

To update and modernize the mechanism being used for working on related projects from the stage of conceptualization to execution, the need was realized to revise prevailing "Schedule Of Rates" along with specifications which were in operation with various departments and being prepared individually as per their need and revised at different span of time, resulting into various anomalies. To overcome



all these, it was essential to revise the schedule of rates, not only with simple mechanized revision but incorporating major changes to keep up with the pace of urbanization, civilization, construction techniques / mechanization and voluminous developments by restructuring items in the schedule to cover all requirements. This exercise would provide comfort with designs and field necessities and will assist in effective checks on creation of extra items during execution.

A conscious decision has been taken to prepare Unified Schedule of Rates to keep pace with the changing time; a first step forward in this direction. Since long time, there have been demands made by the stake holders like Municipal Engineers and Contractors to remove non-uniformity, anomalies and discrepancies in various schedules of rates for work contracts of various departments of M.C.G.M. Every department had its own expertise and way of functioning which got reflected in its independent schedule of rates, which however, had no linkage with the fair market rates and schedules of other departments, resulting into extra items and fair rates. In place of earlier 9 Schedule Of Rates, the Unified Schedule of Rates is an effort and seeks to rectify the defects, discrepancies and non uniformities which will provide ease and accuracy of estimation to the Engineers.

The Unified Scheduled of Rates is linked with its comprehensive specifications of basic important activities so as to have clarity in execution. These specifications follow a chronology of general scope of the item, material required, processing of material, construction operation, finishing and mode of measurement. Rigid Standard Operating Procedures (S.O.Ps) and complete control on processes will certainly satisfy quality parameter. The need for checking the quality of construction is quite apparent and shall be ensured throughout the construction process. To achieve this, the Unified Scheduled of Rates incorporates quality assurance procedures.

All the rates are also linked to their detailed specifications and wherever required, with drawings. Though there are about 10282 items, every item is now given a Unique Code No. which will eliminate the repetition.

It has been our endeavour to include all the necessary modern materials and technologies in Unified Schedule of Rates, for example, the concept of green building, which will go a long way to have control on creation of extra items and fair rates. A salient feature of this Unified Schedule of Rates is 'Starring of items' specified categorically which can be used only at certain works or locations.



Another salient feature is 'Dynamic Rate System' which will be based on study of data base of quantities and bidding prices of awarded contracts on the basis of which necessary corrections can be applied to the Unified Schedule of Rates at specified intervals. Accordingly M.C.G.M. had finalized Unified Schedule of Rates and same were uploaded in October 2013.

The central government has enacted the law of Goods and Services Tax and issued the directive to implement the goods and services tax with effect from 1st July 2017. With G.S.T. coming into effect force, Octroi, VAT, etc. were abolished and one single tax structure came into effect. The Unified schedule of Rates of M.C.G.M. has been revised with the help of M/s Tata consulting Engineers by taking due cognizance of G.S.T.

Highlights of the Revised Schedule:

- The items in schedule of rates are linked to the rate analysis and further the rate analysis is linked to basic material rates, labour rates and machinery rates.
- Also, various items are linked to their comprehensive specifications of basic important activities and drawings so as to have clarity in execution.
- The whole rate analysis format is revised by taking due cognizance of GST. The new rate analysis format in excel, has been formulated separately showing the taxes applicable, in order to have clear understanding of the taxes levied on material, machinery, labour etc.
- Further revisions in U.S.O.R. shall become a simple process due to the current rate analysis format.
- All these items are provided with technical specifications, in fixed chronology with unified code for each item with linkages for rate analysis and specifications
- This will also assist in minimizing and to have effective checks on creation of extra items.
- This complete exercise is certainly going to facilitate Engineers working in the office for the estimation as well as in execution.



- A new nomenclature for G.S.T. with the prefix R2 has been adopted to highlight the revision of schedule.

I am sure that Revised 'Unified Scheduled of Rates' will be a useful in civic governance by M.C.G.M. This publication shall be of great help and guidance to the officers engaged in the project work of M.C.G.M.

-sd/-

Ch.Eng.(B.M.)

-sd/-

Dir.(ES&P)

-sd/-

A. M. C. (W. S.)

-sd/-

Hon. Municipal Commissioner



GENERAL NOTES

A. COMMON GENERAL NOTES

1. The schedule of rates will be operative from 01/05/2018
2. The unified schedule of rates includes following department:
 - i. Buildings
 - ii. Water Supply Projects
 - iii. Hydraulic Engineering
 - iv. Sewerage Projects
 - v. Storm Water Drainage
 - vi. Roads
 - vii. Bridges
 - viii. Traffic and Signals
 - ix. Mechanical and Electrical
 - x. Garden Works
3. Volume-I contains USR, basic rate list and approved makes and Volume-II contains specification along with drawings wherever necessary and mandatory tests.
4. The specification of the items shall be as per latest Indian Standard Codes unless otherwise specified.
5. The rates of the items in this schedule of rates are worked out assuming average lead for Greater Mumbai area for all sorts of materials.
6. The rates are inclusive of transportation, duties, taxes and charges of all Government, Municipal or any other statutory body, applicable from time to time but exclusive of Works Contract Tax and Labour Cess levied by Government of Maharashtra.
7. The rates also includes Overheads @ 5% and Contractor's Profit @10% which is inclusive of labour supervision charges, tools and plants.
8. Rates of common material and labour is attached in the Annexure-A in Volume-I.

9. The building Schedule of Rates 2018 includes the existing items of FMA, FMB 2009, USOR 2013, Retrofitting works item with deletion of obsolete items, merger of similar items Fair items for HIC and value addition of new items in line with modern technology and trends in accordance with latest rules, regulation, byelaws etc.
10. As per the Government policy the use fly ash is done for framing the items of work in accordance with the latest provisions of IS Codes. Also green building items have been introduced in new schedule to minimize the consumption of energy during construction and occupancy of building and also maintaining ecological balance.
11. From safety, health and environment point of view two legged steel tubular scaffolding shall be used, without making any holes in the outer face of the building or any structure. And no extra payment shall be made for works like scaffolding, centering for any height unless otherwise specified.
12. All materials shall be as per approved list of MCGM or equivalent material having quality standards as per relevant IS codes and shall be of first quality unless otherwise specified.
13. Following basic rates are considered in the USR:
- i. Cement : Rs. 6,000/ MT
 - ii. Mild Steel : Rs. 47,400/ MT
 - iii. HYSD Steel (Fe415) : Rs. 48,400/ MT
 - iv. T.M.T. (Fe500) : Rs. 49,400/ MT
 - v. Structural Steel : Rs. 53,400/ MT
14. **Rates given in SOR are for estimation purpose. The rates should be finalized with the items uploaded on SAP System.**
15. Rates of items and specification for excavation, concrete, plaster and brickwork shall be referred from common schedule unless and otherwise not mentioned in concerned department's schedule.

For Earthwork:

16. Lead will be admissible only within MCGM limits. The distance between centerlines shall be taken as the lead which shall be measured by the shortest route on the plan and not the actual route taken by the Contractor. Here

Centerlines represents the center point (for area/mass excavation) and the center chainage for linear excavation.

- 17.** The Engineer In Charge shall exclusively include these directions in the Tender/Bid document and the Tenders/Bidders shall be insisted to make the declaration of the dumping plot at the time of submission of Bid.
- 18.** The Engineer In Charge shall take the quantity in account for the disposal only upto Municipal Limits for the Shortest Route and payment will be made as per the actual distance within municipal limit. The payment will be restricted to the shortest distance upto the Municipal limit for the plot identified outside the Municipal limit.

For Lift:

- 19.** For the depth beyond 1.5 meter, the excavated quantity shall be worked out with the base rate plus the rate of respective slab of the lift. This is elaborated as below:

If total depth of excavation is 6 meter, wherein for first 4.5 meter soft soil is there and beyond it hard rock is available, then estimate shall be worked out as follows:

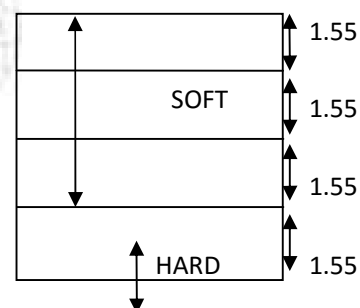
Assumed dimension 1 meter x 1 meter x 6 meter

Upto 4.5 meter depth, amount shall be calculated as:

(1x1x4.5) Cu.M x Rs. 220 (Item no. CS-EW-1) +
(1x1x1.5) Cu.M x Rs. 48 (Item no. CS-EW-2-a) +
(1x1x1.5) Cu.M x Rs. 71 (Item no. CS-EW-2-b)

For next hard strata excavation (4.5 – 6.0 meter),
amount shall be calculated as:

(1x1x1.5) Cu.M x Rs. 873 (Item no. CS-EW-4) +
(1x1x1.5) Cu.M x Rs. 220 (Item no CS-EW-7-c)



20. Coding of items:

- The Coding procedure for Basic master material is as follows:
- Code will start with the common prefix of “MA” which stands for materials

- Followed by Abbreviation code for each schedule of rate for eg H.E. for Building works, SP for Sewerage, WSP for water supply and so on and so forth.
- The first item category in the list will be numbered as “1”
- The last part of the code will be a number starting with “a” to indicate the item number in the master list.
- The alpha numerics will be separated by (dash).
- The code will look like: MA-GN-01

➤ The Coding procedure for SOR is as follows:

- Code will start from abbreviation for Department name “HE” or “WSP” or “SP”
- The USR will be subdivided into chapters according to the item classification; these chapters will be numbered as 1, 2, 3
- The items under the chapter will be numbered from 1
- The sub items will be numbered as a, b, c
- The code will look like R2-CS-CW-1-a-1

➤ Abbreviations to be used for Department

Sr. No.	Department	Abbreviation
1	Building works/Common Schedule	CS
2	Roads	RW
3	Traffic and Signaling	RT
4	Bridges	BW
5	Water Supply Projects	WSP
6	Hydraulic Engg.	HE
7	Sewerage Projects	SE
8	Storm Water Drains	SWD
9	Mechanical and electrical	ME
10	Garden Works	GW

B. SALIENT FEATURES OF SOR FOR BUILDING WORKS

- 1) All the rates are for all heights and levels unless noted otherwise.
- 2) Chloropyrifos EC 20 has been considered for anti termite treatment.
- 3) Artificial sand (crushed sand) has been considered for flooring bedding and for concrete work.
- 4) All the items are excluding fixtures otherwise not specified in respective item. In such case, items of Hardware section shall be used for fixtures.
- 5) For plastering and mortar work, river sand has been considered.
- 6) For plastering work all the rates are for all heights and levels and architectural decorative surface.
- 7) All external plaster items are including waterproofing compound except plastering item for structures like compound wall, masonry pedestals, pillars, etc.
- 8) Items for ashlar masonry, dewatering, self compacting concrete, vacuum dewatered concrete flooring and TMT steel bars have been introduced.
- 9) Rates of all the items in roofing work are inclusive of staging or scaffolding for any height.
- 10) Non-asbestos cement sheet provided in place of asbestos cement sheet roofing.
- 11) Concreting of pile shall be done with RMC only.
- 12) Rates of piling are inclusive of Chiseling of intermediate local boulders. No separate payment shall be made for the same
- 13) While estimating the quantity for Grouting of bentonite slurry in bored precast piles shall be measured as per bore dia. and pile dia. Exact quantity can be measured while execution and shall be paid accordingly
- 14) Rates considered in concrete items are including pumping of concrete upto placing point.
- 15) New items like Self compacting concrete, vacuum dewatered concrete flooring and TMT steel bars have been introduced.
- 16) The dismantling and demolishing chapter covers only removing old items and repair work covers both removing old items and re-fixing the new.
- 17) For heritage works the rate includes the statutory charges for heritage committee and conservation architect and no extra payment will be made.
- 18) APP (Atactic poly-propylene) modified polymeric membrane water proofing will be used only for trial basis on approval of City Engineer and/or Chief Engineer (P&D).
- 19) In plumbing waterless urinals, fly ash bricks, fly ash concrete for green building concept have been introduced.

Star Rating:

In view of ambiguity related to choice of quality or grade of materials and subsequent items of works to be used at Ward level projects, Centralized projects or Special projects of and for smooth functioning during planning stage of a project, the new concept of Star Rating has been introduced for building works depending on the life expectancy of building, degree of occupancy of building and comfort to the end user. The buildings or structures rated are as follows:

- i. Two Star **- Ward offices and Central dept. Offices, schools, Small Hospitals, Primary Health Center, Fire Station, Crematorium, Slaughter Houses, Markets, Swimming Pools, Zoos, Chowkies, Libraries, Staff quarters and residential colonies, Public Toilets and Water tanks.
- ii. Three Star ***- Super specialty Hospitals, Drama Theatres, MCGM Mayor's and Officer's bungalow, Heritage Structures, Head Office and Engineer's Hub.

The items or work not marked as two star or three star are assumed to be applicable for all the star buildings or structures mentioned above.

For 3 star rating items specific approval of Dir.(ES&P) shall be taken

Annexure – I:

The items under Annexure -1 contains some specialised unique brand items. **Prior approval of AMC (WS) is needed for using these items.**

Sr. No.	Content	ITEM CODE	PAGE NO.
1	Anti-termite Treatment	CS-AT	1-2
2	Earth Work	CS-EW	3-8
3	Concrete Work	CS-CW	9-26
4	Masonry Work	CS-MW	27-33
5	Plastering	CS-PL	34-41
6	Water Proofing Work	CS-WP	42-55
7	Painting	CS-PN	56-60
8	Flooring	CS-FL	61-85
9	Roofing Work	CS-RW	86-91
10	Structural Steel Work	CS-SS	92-99
11	Steel Work	CS-SL	100-102
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13	FRP-PVC	CS-PV	110-112
14	Aluminium Work	CS-AW	113-116
15	Hardware	CS-HW	117-123
16	Piling Work	CS-PLG	124-133
17	Plumbing & Sanitation	CS-PS	134-165
18	Repair and Miscellaneous work	CS-RM	166-177
19	Conservation of Heritage Structures	CS-CH	178-179
20	Dismantling and Demolishing Works	CS-DD	180-188
21	Retrofitting Works	CS-RF	189-191
22	HIC Project Items (Civil)	Appendix-I	192-213
23	Basic Rate List	Appendix-A	214-257
24	List of Approved Make	Appendix-B	1-11

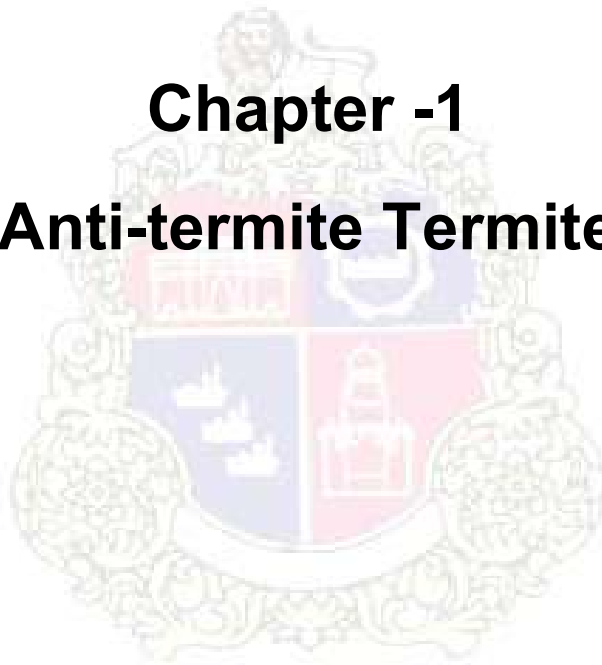


21/05/2018



Chapter -1

Anti-termite Termite



Buildings Schedule/Common Schedule 2018
Anti-termite Treatment

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-AT	ANTITERMITE WORKS		
R2-CS-AT-1	Providing Pre-constructional anti-termite treatment conforming to IS 6313 (part II) using chloropyrifos EC 20 Emulsion or equivalent of 1% concentration by weight for creating barrier under and all around foundation pits, wall trenches, basement excavation, backfill in immediate contact with foundation and treating the top surface of plinth filling, junction of wall & floor, along the external perimeter of building, expansion joints, surrounding of pipes, water conduits and at places suggested and as directed by Engineer-In-Charge covering 10 years guaranty. (plinth area should be considered for measurement and payment.)	Sqm	159
R2-CS-AT-2	Providing anti-termite treatment around the periphery of the existing building conforming to IS-6313 (part III) by excavating trenches of 20cm width and exposing the sides of the columns, plinth beams and wall upto a depth of 300mm, rodding for the holes of 300mm deep and at 150m c/c in the trenches, treating with chloropyrifos EC 20 Emulsion or equivalent of 1% concentration by weight at the total rate of 2.25 Liters per meter including backfilling the trenches etc. complete as directed by Engineer-in-Charge covering 2 years guaranty.	Rmt	66
R2-CS-AT-3	Providing anti termite treatment conforming to IS- 6313 (part-III) to the sides of flooring of the Existing building by punching/ drilling the holes of 16 mm dia at a distance of 300mm centre to centre and injecting 150 ml untill refusal or to a maximum of 1 Lit. per hole with chloropyrifos EC 20 Emulsion or equivalent of 1% concentration by weight, sealing the hole by filling the putty etc. complete as directed by Engineer-In-Charge with 2 years guaranty.	Per Hole	27
R2-CS-AT-4	Providing anti termite treatment conforming to IS- 6313 (part-III) to the wooden frames of doors / windows of the Existing building by drilling the 3 mm dia. holes at 150mm c/c and at the junction of wood work and masonry work to downward angle of 45 degree and injecting 500 ml per hole or until refusal with oil / kerosene based chloropyrifos EC 20 emulsion or equivalent of 1% concentrate, sealing the holes by filling the putty etc complete as directed by Engineer-In-Charge with 2 years guaranty	Rmt	295



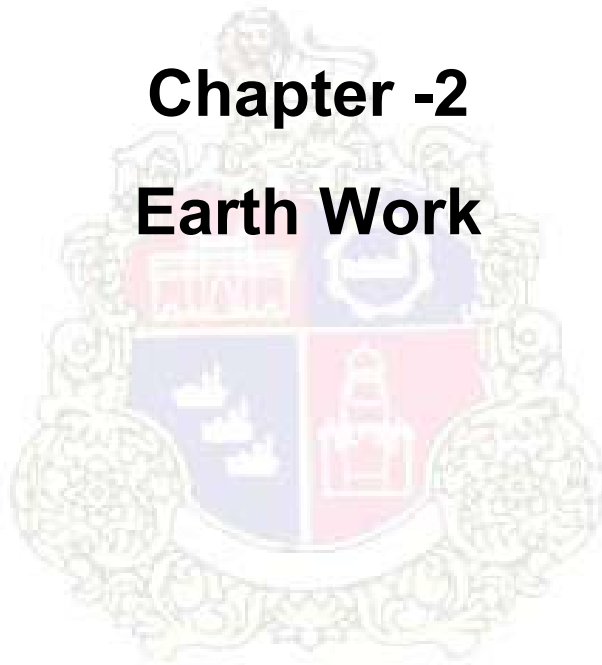
Buildings Schedule/Common Schedule 2018
Anti-termite Treatment

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-AT-5	Providing anti termite treatment conforming to IS- 6313 (part-III) to the joints of wooden frames of beams/ joists used for the roof work of the Existing building by drilling the 3 mm dia holes at the four corners at downward angle of 45 degree at the junction of wood work and masonry work and injecting 500ml or until refusal per hole with oil / kerosene based chloropyrifos EC 20 emulsion or equivalent of 1% concentrate, sealing the hole by filling the putty etc complete as directed by Engineer-In-Charge with 2 years guaranty.	Per Joint	78
R2-CS-AT-6	Providing general pest control service to the buildings to control the nuisance of cockroaches, lizards, bed bugs and other insects etc. by minimum four operation as and when directed in a year including monthly check up with additional operations if required and as directed by Engineer-In-Charge.	Sqm	33
R2-CS-AT-7	Providing general pest control service to big sizes (Volume more than 1 Cum) of inspection chamber to control the nuisance of cockroaches and other insects etc by minimum four operations in a year and monthly check up with additional operations if required and as directed by Engineer-In-Charge.	Nos	336
R2-CS-AT-8	Providing general pest control service to small sizes (Volume less than 1 Cum) of inspection chamber to control the nuisance of cockroaches and other insects etc by minimum four operations in a year and monthly check up with additional operations if required and as directed by Engineer-In-Charge.	Nos	136
R2-CS-AT-9	Providing and applying two coats of an approved wood preservative for anti-termite treatment to wooden surface as per manufacturer's specifications and as directed by Engineer-In-Charge.	Sqm	25



Chapter -2

Earth Work



Buildings Schedule/ Common Schedule 2018
Earth Work Items

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-EW	EARTHWORK		
R2-CS-EW-1	Excavation for foundations, substructures, basements, tanks, sumps, walls, chambers, manholes, trenches, poles, pits & general building works in all types of soils, vegetable earth, soft murum, running sand, shingle, turf clay, loam, peat, ash, shale, slag, chalk, garbage, muddy/ marshy/ slushy soil, marine clay, reclaimed land etc. for depths/lifts upto 1.5M measured from the ground level, including dressing/ trimming the sides, leveling and ramming of bottoms, manual dewatering, removing rank vegetation, backfilling in layers not more than 200mm thickness, watering, consolidating, compacting to achieve not less than 97% Modified Proctor density conforming to relevant IS, stacking the selected material in measurable heaps for future use within owners space or disposing within an initial lead of 150m as directed, loading, unloading, leveling excluding shoring, strutting etc. complete as directed by Engineer-in-Charge. Note: 1) The rate includes the handling/supporting the existing utilities such as cables, drains, pipes, water mains etc. 2) It also includes the royalty and other taxes applicable if any. For more details refer General Notes.	Cum	307
R2-CS-EW-2-a	Extra over above item CS-EW-1 for lift from 1.5m to 3.0m.	Cum	71
R2-CS-EW-2-b	Extra over above item CS-EW-1 for lift from 3.0m to 4.5m	Cum	106
R2-CS-EW-2-c	Extra over above item CS-EW-1 for lift from 4.5m to 6.0m	Cum	171
R2-CS-EW-2-d	Extra over above item CS-EW-1 for lift from 6.0m to 7.5m	Cum	236
R2-CS-EW-2-e	Extra over above item CS-EW-1 for lift from 7.5m to 9.0m	Cum	301
R2-CS-EW-2-f	Extra over above item CS-EW-1 for lift from 9.0m to 10.5m	Cum	365
R2-CS-EW-2-g	Extra over above item CS-EW-1 for lift from 10.5m to 12.0m	Cum	430
R2-CS-EW-2-h	Extra over above item CS-EW-1 for lift from 12.0m to 13.5m	Cum	495
R2-CS-EW-2-i	Extra over above item CS-EW-1 for lift from 13.5m to 15.0m	Cum	560
R2-CS-EW-3	Excavation for foundation, substructures, basements, tanks, sumps, walls, chambers, manholes, trenches, poles, pits & general building works in soft/ disintegrated rock, sand stone, stiff clay, gravel, cobblestone, hard laterite, water bound macadam, wet mix macadam, asphalt mix carpet of any type, pitching, soling, paths and hardcore, lime concrete, plain cement concrete, stone masonry and all types of brick/ block masonry below ground level, rock boulders, etc. for depths/ lifts upto 1.5M measured from the ground level, including dressing/ trimming the sides, leveling of bottoms, manual dewatering, removing rank vegetation, backfilling in layers not more than 200mm thickness, watering, consolidating, compacting to achieve not less than 97% Modified Proctor density conforming to relevant IS, stacking in measurable heaps for future use within owners space or disposing within an initial lead of 150m as directed, loading, unloading, leveling excluding shoring, strutting etc. complete as directed by Engineer-in-Charge. Note: 1) The rate includes the handling/supporting the existing utilities such as cables, drains, pipes, water mains etc. 2) It also includes the royalty and other taxes if any.	Cum	500



Buildings Schedule/ Common Schedule 2018
Earth Work Items

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-EW-4	Excavation by chiseling by manual operations, pneumatic breaker, hammer, drilling, compressor breaker, jack hammer etc. for foundations, substructures, basements, tanks, sumps, walls, chambers, manholes, poles, pits & general building works in hard rock, reinforced concrete, Bituminous macadam for depths/lifts upto 1.5M, including dressing/trimming the sides, leveling of bottoms, manual dewatering, removing rank vegetation, backfilling in layers not more than 200mm thickness, watering, consolidating, compacting to achieve not less then 97% Modified Proctor density conforming to relevant IS, stacking in measurable heaps for future use within owners space or disposing within an initial lead of 150m as directed, unloading, leveling excluding shoring, strutting etc. complete as directed by Engineer-in-Charge, loading. Note: 1) The rate includes the handling/supporting the existing utilities such as cables, drains, pipes, water mains etc. 2) It also includes the royalty and other taxes if any.	Cum	1054
R2-CS-EW-5	Excavation by using splitters for foundations, substructures, basements, tanks, sumps, walls, chambers, manholes, trenches, poles, pits & general building works in hard rock, reinforced concrete, for depths/lifts upto 1.5M, including drilling, breaking in small pieces, mucking, dressing/trimming the sides, leveling of bottoms, manual dewatering, removing rank vegetation, backfilling in layers not more than 200mm thickness, watering, consolidating, compacting to achieve not less then 97% Modified Proctor density conforming to relevant IS, stacking in measurable heaps for future use within owners space or disposing within an initial lead of 150m as directed by Engineer-in-Charge, loading, unloading, leveling excluding shoring, strutting etc. complete. Note: 1) The rate includes the handling/supporting the existing utilities such as cables, drains, pipes, water mains etc. 2) It also includes the royalty and other taxes if any.	Cum	3104
R2-	[Note : Sanction of Director/DMC(SE)/DMC(E) should be obtained for including the above item in BOQ during the approval of Draft Tender.]		
R2-CS-EW-6	Excavation by controlled blasting with necessary safety precautions as per statutory requirement, for foundations, substructures, basements, tanks, sumps, walls, chambers, manholes, trenches, poles, pits & general building works in hard rock for depths/ lifts upto 1.5M, including drilling, breaking in small pieces, mucking, dressing/ trimming the sides, leveling/ grading of bottoms, manual dewatering, removing rank vegetation, backfilling in layers not more than 200mm thickness, watering, consolidating, compacting to achieve not less then 97% Modified Proctor density conforming to relevant IS, stacking in measurable heaps for future use within owners space or disposing within an initial lead of 150m as directed, loading, unloading, leveling excluding shoring, strutting etc. complete as directed by Engineer-in-Charge. Note: 1) The rate includes the handling/supporting the existing utilities such as cables, drains, pipes, water mains etc. 2) It also includes the royalty and other taxes if any. For more details refer General Notes.	Cum	895
R2-CS-EW-7-a	Extra over the items CS-EW-03 to CS-EW-06 for lift from 1.5m to 3.0m.	Cum	127
R2-CS-EW-7-b	Extra over the items CS-EW-03 to CS-EW-06 for lift from 3m to 4.5m.	Cum	227
R2-CS-EW-7-c	Extra over the items CS-EW-03 to CS-EW-06 for lift from 4.5m to 6.0m.	Cum	327
R2-CS-EW-7-d	Extra over the items CS-EW-03 to CS-EW-06 for lift from 6.0m to 7.5m.	Cum	427
R2-CS-EW-7-e	Extra over the items CS-EW-03 to CS-EW-06 for lift from 7.5m to 9.0m.	Cum	528
R2-CS-EW-7-f	Extra over the items CS-EW-03 to CS-EW-06 for lift from 9.0m to 10.5m.	Cum	628



Buildings Schedule/ Common Schedule 2018
Earth Work Items

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-EW-7-g	Extra over the items CS-EW-03 to CS-EW-06 for lift from 10.5m to 12.0m.	Cum	728
R2-CS-EW-7-h	Extra over the items CS-EW-03 to CS-EW-06 for lift from 12.0m to 13.5m.	Cum	828
R2-CS-EW-7-i	Extra over the items CS-EW-03 to CS-EW-06 for lift from 13.5m to 15.0m.	Cum	928
R2-CS-EW-8	<p>Add for lead upto 3 km including levelling.</p> <p>Note :</p> <p>1.This lead will be admissible only within MCGM limits. The distance between centerlines shall be taken as the lead which shall be measured by the shortest route on the plan and not the actual route taken by the Contractor. Here Centerlines represents the center point (for area/mass excavation) and the center chainage for linear excavation.</p> <p>2. The Engineer In Charge shall exclusively include these directions in the Tender/Bid document and the Tenders/Bidders shall be insisted to make the declaration of the dumping plot at the time of submission of Bid.</p> <p>3. The Engineer In Charge shall take the quantity in account for the disposal only upto Municipal Limits for the Shortest Route and payment will be made as per the actual distance within municipal limit. The payment will be restricted to the shortest distance upto the Municipal limit for the plot identified outside the Municipal limit.</p> <p>4. Prior Specific sanction of Head of Dept. should be taken if transportation is to be done at night for above items, (i.e. between 8.00 pm. to 6 am.) and the rate shall be reduced by 10%. This item will be operated/executed with the</p>	Cum	146
R2-CS-EW-9	<p>Add for each additional lead of 1km beyond initial lead of 3km including levelling.</p> <p>Note :</p> <p>.This lead will be admissible only within MCGM limits. The distance between centerlines shall be taken as the lead which shall be measured by the shortest route on the plan and not the actual route taken by the Contractor. Here Centerlines represents the center point (for area/mass excavation) and the center chainage for linear excavation.</p> <p>2. The Engineer In Charge shall exclusively include these directions in the Tender/Bid document and the Tenders/Bidders shall be insisted to make the declaration of the dumping plot at the time of submission of Bid.</p> <p>3. The Engineer In Charge shall take the quantity in account for the disposal only upto Municipal Limits for the Shortest Route and payment will be made as per the actual distance within municipal limit. The payment will be restricted to the shortest distance upto the Municipal limit for the plot identified outside the Municipal limit.</p> <p>4. Prior Specific sanction of Head of Dept. should be taken if transportation is to be done at night for above items, (i.e. between 8.00 pm. to 6 am.) and the</p>	Cum	30
R2-CS-EW-10	<p>Dewatering the excavated trenches/pits, pools of water, well works by using pumps and other devices including disposing off water to safe distance as directed by Engineer-in-charge including cost of machinery, labour, fuel, pipe and it's accessories etc. complete.</p> <p>Note : This item will be operated/executed with the prior specific sanction of the Head of department.</p>	HP/Hr.	75
R2-CS-EW-11	<p>Filling in plinth, floors, trenches, pits with approved excavated materials, murum / good earth in layers not exceeding 200mm including breaking of clods, watering, consolidating each layer in filled up area by rolling and compacting with roller/ plate compactor as required to achieve not less than 97% modified proctor density conforming to relevant IS etc. complete as directed by Engineer In charge.</p> <p>Note:</p> <p>1) The rate includes the royalty and other taxes if any.</p>	Cum	183



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-EW-12	Filling in plinth, floors, trenches, pits with approved contractor's murum in layers not exceeding 200mm including breaking of clods, watering, consolidating each layer in filled up area by rolling and compacting with roller/ plate compactor as required to achieve not less than 97% modified proctor density conforming to relevant IS etc. complete as directed by Engineer In charge. The rate includes necessary soil testing charges at laboratory & field as per relevant I.S. codes, royalty, octroi and other taxes if any. (Note: Borrow areas selected by CONTRACTOR shall be got approved from Engineer In Charge, before executing the work) 1) The rate includes the royalty and other taxes if any.	Cum	1244
R2-CS-EW-13	Providing and removing open or closed shoring and strutting in the trenches/ pits for all depths as per specifications/ drawings and or as directed by Engineer-in-charge by including walling, struts, open poling boards, horizontal sheeting, runners, dog spikes by using timber etc. complete.	Sqm	Ref. rate of item SE-1-4
R2-CS-EW-14	Providing and leaving permanently in position the open or closed shoring and strutting in the trenches/ pits for all depths as per specifications/ drawings and or as directed by Engineer-in-charge including walling, struts, open poling boards, horizontal sheeting, runners, dog spikes by using timber etc. complete.	Sqm	Ref. rate of item SE-1-5
R2-CS-EW-15	Excavation over areas for basements, roads, land/plot developement in all types of soils, vegetable earth, soft murum, running sand, shingle, turf clay, loam, peat, ash, shale, slag, chalk, garbage, muddy/ marshy/ slushy soil, marine clay, reclaimed land etc. for all depths/lifts including manual dewatering, filling the selected excavated earth at the locations as directed, in layers not more than 200mm thickness, watering, consolidating, compacting to achieve not less than 97% Modified Proctor density conforming to relevant IS, stacking the selected material in measurable heaps for future use within owners space or disposing within an initial lead of 150m as directed, loading, unloading, leveling excluding shoring, strutting etc. complete as directed by Engineer-in-Charge. Note: 1) The rate includes the handling/supporting the existing utilities such as cables, drains, pipes, water mains etc. 2) It also includes the royalty and other taxes if any.	Cum	226
R2-CS-EW-16	Excavation over areas for basements, roads, land/plot developement in soft/ disintegrated rock, sand stone, stiff clay, gravel, cobblestone, hard laterite, water bound macadam, wet mix macadam, pitching, soling, paths and hardcore, lime concrete, plain cement concrete, stone masonry and all types of brick/ block masonry below ground level, rock boulders, etc. for all depths/lifts including manual dewatering, filling the selected excavated earth at the locations as directed, in layers not more than 200mm thickness, watering, consolidating, compacting to achieve not less than 97% Modified Proctor density conforming to relevant IS, stacking the selected material in measurable heaps for future use within owners space or disposing within an initial lead of 150m as directed, loading, unloading, leveling excluding shoring, strutting etc. complete as directed by Engineer-in-Charge. Note: 1) The rate includes the handling/supporting the existing utilities such as cables, drains, pipes, water mains etc. 2) It also includes the royalty and other taxes if any.	Cum	343



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Earth Work Items

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-EW-17	Excavation by chiseling by manual operations, pneumatic breaker, hammer, drilling, compressor breaker, jack hammer etc. over areas for basements, roads, land/plot developement etc. in hard rock, reinforced concrete, Bituminous macadam for all depths/lifts including manual dewatering, filling the selected excavated earth at the locations as directed, in layers not more than 200mm thickness, watering, consolidating, compacting to achieve not less then 97% Modified Proctor density conforming to relevant IS, stacking the selected material in measurable heaps for future use within owners space or disposing within an initial lead of 150m as directed, loading, unloading, leveling excluding shoring, strutting etc. complete as by Engineer-in-Charge. Note: 1) The rate includes the handling/supporting the existing utilities such as cables, drains, pipes, water mains etc. 2) It also includes the royalty and other taxes if any.	Cum	967
R2-CS-EW-18	Excavation by using splitters over areas for basements, roads, land/plot developement etc. in hard rock, reinforced concrete, Bituminous macadam for all depths/lifts, including manual dewatering, filling the selected excavated earth at the locations as directed, in layers not more than 200mm thickness, watering, consolidating, compacting to achieve not less then 97% Modified Proctor density conforming to relevant IS, stacking the selected material in measurable heaps for future use within owners space or disposing within an initial lead of 150m as directed, loading, unloading, leveling excluding shoring, strutting etc. complete as directed by Engineer-in-Charge. Note: 1) The rate includes the handling/supporting the existing utilities such as cables, drains, pipes, water mains etc. 2) It also includes the royalty and other taxes if any.	Cum	3007
R2-CS-EW-19	Excavation by controlled blasting with necessary safety precautions as per statutory requirement, over areas for basements, roads, land/plot developement etc. in hard rock, reinforced concrete, Bituminous macadam for all depths/lifts, including manual dewatering, filling the selected excavated earth at the locations as directed, in layers not more than 200mm thickness, watering, consolidating, compacting to achieve not less then 97% Modified Proctor density conforming to relevant IS, stacking the selected material in measurable heaps for future use within owners space or disposing within an initial lead of 150m as directed, loading, unloading, leveling excluding shoring, strutting etc. complete by Engineer-in-Charge. Note: 1) The rate includes the handling/supporting the existing utilities such as cables, drains, pipes, water mains etc. 2) It also includes the royalty and other taxes if any.	Cum	798
R2-CS-EW-20	Filling in embankment and / or low lying ground with approved excavated materials, murum in layers not exceeding 200mm including breaking of clods and dressing to the required lines, curves and section, watering, consolidating each layer in filled up area by rolling and compacting with vibro roller not less than 10 MT & using other compacting equipment as required to achieve Field C.B.R. not less than 4 in soaked condition etc. complete as directed by Engineer In charge. Note: 1) The rate includes the royalty and other taxes if any.	Cum	379



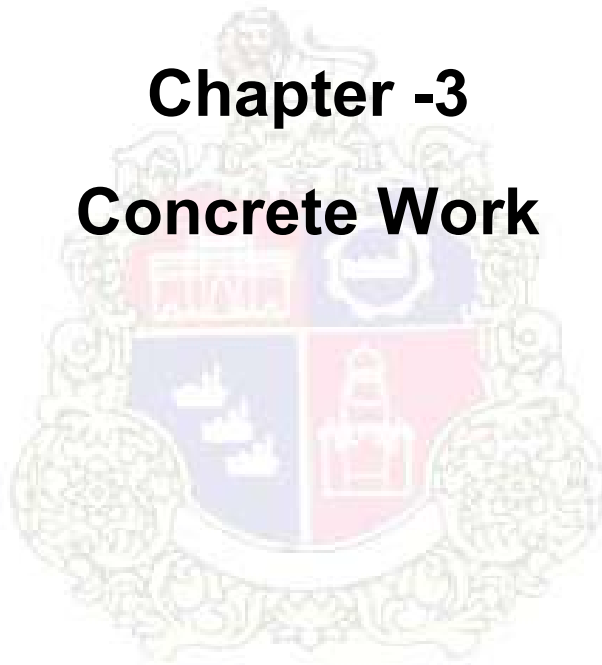
Buildings Schedule/ Common Schedule 2018
Earth Work Items

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-EW-21	Filling in embankment and / or low lying ground with contractors murum in layers not exceeding 200mm including breaking of clods and dressing to the required lines, curves and section, watering, consolidating each layer in filled up area by rolling and compacting with vibro roller not less than 10 MT & using other compacting equipment as required to achieve Field C.B.R. not less than 4 in soaked condition etc. complete as directed by Engineer In charge. The rate includes necessary soil testing charges at laboratory & field as per relevant I.S. codes, royalty, octroi and other taxes if any. (Note: 1) Borrow areas selected by CONTRACTOR shall be got approved from Engineer In Charge, before executing the work 2) The rate includes the royalty and other taxes if any.)	Cum	1392
R2-CS-EW-22	Rebate for stones available from the hill cutting, excavation, loose boulders including carting away the same as directed and making the site clean and neat as directed by Engineer-in-Charge. (The payment will be made on the basis of depot measurements of broken stones, taking average depth of depot by deducting 40% for voids)	Cum	118
R2-CS-EW-23	Providing & Laying dry stone Rubble Pitching with average 150 mm size and of minimum thickness 230 mm hard stone set in regular lines to form plane surface, handpacked and interstices thoroughly filled with small chips including providing and laying gravel quarry spells underneath for leveling undulations of the ground. etc complete as directed by Engineer In Charge. (Note: The rate includes the royalty and other taxes if any)	Sqm	416
R2-CS-EW-24	Providing and Laying 230mm thick Rubble Stone for Pitching on sloping ground or wherever directed, properly arranging and placing the rubble stones to achieve a plane top surface, set in regular line & slope, including breaking, laying gravel, quarry spells underneath and manually packing the voids with rubble chips, flush pointing with cement mortar 1:4 up to 25mm deep, etc. complete as specified & as directed. (Note: The rate includes the royalty and other taxes if any)	Sqm	535
R2-CS-EW-25	Providing and Laying 230mm thick Rubble Stone for Pitching on sloping ground or wherever directed, properly arranging and placing the rubble stones to achieve a plane top surface, set in regular line & slope, including breaking, laying gravel, quarry spells underneath and manually packing the voids with rubble chips, tuck pointing with cement mortar 1:2 up to 25mm deep, etc. complete as specified & as directed. (Note: The rate includes the royalty and other taxes if any)	Sqm	539
R2-CS-EW-26	Providing & Laying dry stone Rubble Soling with average 230 mm size hard stone set in regular lines, handpacked and interstices thoroughly filled with small chips including filling in with good quality murum brought from outside, compacting with iron rammers, watering, sand spreading 12mm thk. layer of grit on top etc complete as directed by Engineer In Charge. (Note: The rate includes the royalty and other taxes if any)	Cum	2231
R2-CS-EW-27	Providing & Laying 150 mm thick dry stone Rubble Soling with average 150 mm size hard stone set in regular lines, handpacked and interstices thoroughly filled with small chips including filling in with good quality murum brought from outside, compacting with iron rammers, watering, sand spreading 12mm thk. layer of grit on top etc complete as directed by Engineer In Charge. (Note: The rate includes the royalty and other taxes if any)	Sqm	273



Chapter -3

Concrete Work



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-CW	Concrete Works		
	Plain Cement Concrete Mixer Mix		
R2-CS-CW-1	Providing and laying in position plain cement concrete of specified grade cement with trap/granite/quartzite/gneiss metal mixing in concrete mixer including bailing out water, compacting, finishing surface, curing and including the cost of centering and shuttering at all level :		
R2-CS-CW-1-a	Nominal Mix of 1:1.5:3 (1 cement OPC: 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	Cum	7062
R2-CS-CW-1-b	Nominal Mix of 1:2:4 (1 cement OPC: 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	Cum	6821
R2-CS-CW-1-c	Nominal Mix of 1:3:6 (1 Cement OPC: 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).	Cum	6236
R2-CS-CW-1-d	Nominal Mix of 1:4:8 (1 Cement OPC: 4 coarse sand : 8 graded stone aggregate 20 mm nominal size).	Cum	5996
R2-CS-CW-1-e	Nominal Mix of 1:1.5:3 (1 cement (PPC) : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	Cum	6551
R2-CS-CW-1-f	Nominal Mix of 1:2:4 (1 cement (PPC): 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	Cum	6413
R2-CS-CW-1-g	Nominal Mix of 1:3:6 (1 Cement (PPC): 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).	Cum	5956
R2-CS-CW-1-h	Nominal Mix of 1:4:8 (1 Cement (PPC): 4 coarse sand : 8 graded stone aggregate 20 mm nominal size).	Cum	5779
R2-CS-CW-1-j	Nominal Mix of 1:1:2 (1 cement OPC: 1 coarse sand : 2 graded stone aggregate 20 mm nominal size)	Cum	7012



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
	Plain Cement Concrete RMC		
R2-CS-CW-2	Providing and laying in position ready mixed plain cement concrete, using fly ash and cement content as per approved design mix from Engineer-in-charge and fly ash conforming to grade I of IS 3812 (Part-1) only be used as part replacement of OPC as per IS 456 and uniform blending with cement is to be ensured in accordance with clauses 5.2 and 5.2.1 of IS: 456-2000 in the items of ready mixed concrete and manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for plain cement concrete work, including pumping of R.M.C. from transit mixer to site of laying and curing, including the cost of centering, shuttering and finishing, including cost of curing, admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge.		
R2-CS-CW-2-a	All works upto plinth level.		
R2-CS-CW-2-a-1	M-20 grade plain cement concrete (cement content considered @ 260 kg/cum).	Cum	6963
R2-CS-CW-2-a-2	M-15 grade plain cement concrete (cement content considered @ 240 kg/cum).	Cum	6764
R2-CS-CW-2-a-3	M-10 grade plain cement concrete (cement content considered @ 220 kg/cum).	Cum	6498
R2-CS-CW-2-b	All works above plinth .		
R2-CS-CW-2-b-1	M-20 grade plain cement concrete (cement content considered @ 260 kg/cum).	Cum	8072
R2-CS-CW-2-b-2	M-15 grade plain cement concrete. (cement content considered @ 240 kg. /cum).	Cum	7872
R2-CS-CW-2-b-3	M-10 grade plain cement concrete (cement content considered @ 220 kg/cum).	Cum	7606



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Concrete Works

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-CW-3	Providing and laying in position ready mixed plain cement concrete, with cement content as per approved design mix by Engineer-in-charge and manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for plain cement concrete work, including pumping of R.M.C. from transit mixer to site of laying and curing, including the cost of centering, shuttering and finishing, including cost of curing, admixtures in recommended proportions as per IS : 9103 to accelerate/retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge.		
R2-CS-CW-3-a	All works upto plinth level.		
R2-CS-CW-3-a-1	M-20 grade plain cement concrete (cement content considered @ 260 kg/cum as per IS 456 table showing minimum cement content).	Cum	6963
R2-CS-CW-3-a-2	M-15 grade plain cement concrete (cement content considered @ 240 kg/cum as per IS 456 table showing minimum cement content).	Cum	6764
R2-CS-CW-3-a-3	M-10 grade plain cement concrete (cement content considered @ 220 kg/cum as per IS 456 table showing minimum cement content).	Cum	6498
R2-CS-CW-3-b	All works above plinth .		
R2-CS-CW-3-b-1	M-20 grade plain cement concrete (cement content considered @ 260 kg/cum as per IS 456 table showing minimum cement content).	Cum	8072
R2-CS-CW-3-b-2	M-15 grade plain cement concrete. (cement content considered @ 240 kg. /cum as per IS 456 table showing minimum cement content).	Cum	7872
R2-CS-CW-3-b-3	M-10 grade plain cement concrete (cement content considered @ 220 kg/cum as per IS 456 table showing minimum cement content).	Cum	7606
	Pre-Cast Concrete		
R2-CS-CW-4	Providing, hoisting and fixing at all level precast reinforced cement concrete work in string courses, bands, copings, drain covers, bed plates, anchor blocks, plain window sills and the like including the cost of required centering, shuttering and reinforcement, of		
R2-CS-CW-4-a	Nominal Mix 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20mm nominal size).	Cum	7663



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-CW-4-b	Nominal Mix 1:1.5:3 (1 cement: 2 coarse sand: 4 graded stone aggregate 20mm nominal size).	Cum	7904
R2-CS-CW-5	Providing, hoisting and fixing at all level precast reinforced cement concrete in small lintels not exceeding 1.5m clear span up to all level including the cost of required centering, shuttering and reinforcement, with		
R2-CS-CW-5-a	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size).	Cum	11456
R2-CS-CW-5-b	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size).	Cum	12064
R2-CS-CW-6	Providing precast cement concrete Jali of Nominal Mix 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6mm nominal size) reinforced with 1.6 mm dia mild steel wire including centering and shuttering, roughening cleaning, fixing and finishing in cement mortar 1:3 (1 cement: 3 fine sand) etc. complete excluding plastering of the jambs, sills and soffits.		
R2-CS-CW-6-a	100 mm thick	Sqm	2734
R2-CS-CW-6-b	50 mm thick	Sqm	1736
R2-CS-CW-6-c	40 mm thick	Sqm	1447
R2-CS-CW-6-d	25 mm thick	Sqm	1148
	RCC RMC Concrete		
R2-CS-CW-7	Providing and laying in position ready mixed design mix M-20 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying and the cost of centering, shuttering, finishing and excluding reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. The Mix design as per particular specifications shall be got approved by Engineer-in-Charge before execution of the item. The rate shall include cost of all specified materials and operations at all levels and heights, including the cost of centering, shuttering and and excluding reinforcement which shall be paid under relevant item. (Note :- Cement content considered in this item is @ 300 kg/cum as per IS 456 table showing minimum cement content. No extra will be paid nor any amount will recovered on account of variation of cement in mix design as per specifications for controlled concrete).		



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
	All works (including Centering & Shuttering)		
R2-CS-CW-7-a	Foundations, footings, bases of columns, rafts, pilecap	Cum	7515
R2-CS-CW-7-b	Walls (any thickness) including attached buttresses, retaining wall, shear wall, diaphragm wall , trench,pit walls, etc	Cum	10518
R2-CS-CW-7-c	Slabs, Suspended floors, roofs, landings, balconies, canopy and access platform	Cum	11790
R2-CS-CW-7-d	Lintels, beams, plinth beams, girders, floor beam, coping.	Cum	9556
R2-CS-CW-7-e	Columns, Pillars, Piers, Posts and Struts.	Cum	11184
R2-CS-CW-7-f	Stairs (waist slab), folded slab, inclined slab	Cum	11059
R2-CS-CW-7-g	Spiral staircases (including landing).	Cum	12302
R2-CS-CW-7-h	Extra for shuttering in circular work arches, columns (20% of respective centering and shuttering items).	Cum	2055
R2-CS-CW-7-i	Weather shade, Chajjas, corbels, cantilever beam, etc., including edges.	Cum	12329
R2-CS-CW-8	Vertical and horizontal fins individually or forming box louvers, facias and eaves	Cum	11568
R2-CS-CW-9	Extra for providing two stage centering for height more than 4.5m and upto 9m height in terms of floor slabs including finishing, etc	Cum	1623
R2-CS-CW-10	Extra for providing two stage centering for height more than 9m and upto 13m height in terms of floor slabs including finishing, etc	Cum	2248
R2-CS-CW-10-a	Extra for providing two stage centering for height more than 13m and upto 20m height in terms of floor slabs including finishing, etc	Cum	3263
R2-CS-CW-11	Extra for providing two stage centering for height more than 4.5m and upto 9m height in terms of floor beams including finishing, etc	Cum	1064
R2-CS-CW-12	Extra for providing two stage centering for height more than 9m and upto 13m height in terms of floor beams including finishing, etc	Cum	1466
R2-CS-CW-12-a	Extra for providing two stage centering for height more than 13m and upto 20m height in terms of floor beams including finishing, etc	Cum	2035
R2-CS-CW-13	Extra for providing two stage centering for height more than 4.5m and upto 9m height in terms of columns including finishing, etc	Cum	1471



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-CW-14	Extra for providing two stage centering for height more than 9m and upto 13m height in terms of columns including finishing, etc	Cum	2036
R2-CS-CW-14-a	Extra for providing two stage centering for height more than 13m and upto 20m height in terms of columns including finishing, etc	Cum	2930
R2-CS-CW-15	Rebate in items of M20 R.C.C. for providing leaner mix of M15 with prior permission.	Cum	200
R2-CS-CW-16	Extra and over for providing richer RMC of M-25 grade cement concrete instead of M20 (Note :- Cement content considered in this item is @ 330 kg/cum as per IS 456 table showing minimum cement content.)	Cum	266
R2-CS-CW-17	Extra and over for providing richer RMC of M-30 grade cement concrete instead of M20 (Note :- Cement content considered in this item is @ 340 kg/cum as per IS 456 table showing minimum cement content.)	Cum	532
R2-CS-CW-18	Extra and over for providing richer RMC of M-35 grade cement concrete instead of M20 (Note :- Cement content considered in this item is @ 350 kg/cum as per IS 456 table showing minimum cement content.)	Cum	798
R2-CS-CW-19	Extra and over for providing richer RMC of M-40 grade cement concrete instead of M20 (Note :- Cement content considered in this item is @ 360 kg/cum as per IS 456 table showing minimum cement content.)	Cum	1064
R2-CS-CW-20	Extra and over for providing richer RMC of M-45 grade cement concrete instead of M20 (Note :- Cement content considered in this item is @ 435 kg/cum as per IS 456 table showing minimum cement content.)	Cum	1330
R2-CS-CW-21	Extra and over for providing richer RMC of M-50 grade cement concrete instead of M20 (Note :- Cement content considered in this item is @ 450 kg/cum as per IS 456 table showing minimum cement content.)	Cum	1596



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
	Self Compacting Concrete		
R2-CS-CW-22	Designing, providing and laying in any position, without usage of vibrator, ready mixed design mix Self Compacting Cement Concrete (SCC) of required grade for Form Finished reinforced cement concrete work in super structure at all floor levels, using cement & fly ash, content as required including transportation of concrete through transit mixer to site of laying for all leads, all floor levels, pumping of concrete to site of laying but excluding the cost of centering, shuttering, including admixtures conforming to IS 9103 as per designed proportions to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. The Mix design as per particular specifications shall be got approved by Engineer-in-Charge before execution of the item. The rate shall include cost of all specified materials and operations, but exclude the cost of centering, shuttering and reinforcement which shall be paid under relevant item.		
R2-CS-CW-22-a	M-30 Grade SCC	Cum	9266
R2-CS-CW-22-b	M-35 Grade SCC	Cum	9563
R2-CS-CW-22-c	M-40 Grade SCC	Cum	9724
R2-CS-CW-22-d	M-45 Grade SCC	Cum	10308
R2-CS-CW-22-e	M-50 Grade SCC	Cum	10634
	Vacuum Dewatered Concrete Flooring		
R2-CS-CW-23	Providing and laying C.C. floor of mix M-25 with ready mixed concrete from RMC. The ready mixed concrete shall be laid and vibrated with a poker vibrator and finished with screed board vibrator, vacuum dewatering process and finally finished by floating, brooming with wire brush etc. complete as per specifications and directions of Engineer-in-charge. The channel shuttering spaced 4m apart shall be included in this item.)	Cum	7950



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Concrete Works

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-CW-24	Providing and laying C.C. floor of mix M-20 with ready mixed concrete from RMC. The ready mixed concrete shall be laid and vibrated with a poker vibrator and finished with screed board vibrator , vacuum dewatering process and finally finished by floating, brooming with wire brush etc. complete as per specifications and directions of Engineer-in-charge. The channel shuttering spaced 4m apart shall be included in this item.)	Cum	7132
	Encased Rolled Steel Section		
R2-CS-CW-25	Encasing rolled steel sections, in beams and columns, with cement concrete of 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20mm nominal size) including centering and shuttering complete but excluding cost of reinforcement.	Cum	11566
R2-CS-CW-26	Encasing rolled steel sections, in beams and columns, with cement concrete of 1:1½:3 (1 cement: 1½ coarse sand: 3 graded stone aggregate 20mm nominal size) including centering and shuttering complete but excluding cost of reinforcement.	Cum	11810
R2-CS-CW-27	Encasing rolled steel section in grillages with cement concrete of Nominal Mix 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20mm nominal size) including centering and shuttering but excluding cost of expanded metal and hangers.	Cum	7515
R2-CS-CW-28	Encasing rolled steel section in grillages with cement concrete of Nominal Mix 1:1½:3 (1 cement: 1½ coarse sand: 3 graded stone aggregate 20mm nominal size) including centering and shuttering but excluding cost of expanded metal and hangers.	Cum	7769
R2-CS-CW-29	Extra for providing and fixing expanded metal mesh of size 20x60mm and strands 3.25mm wide 1.6mm thick weighing 3.64 kg. per sqm. for encasing of rolled steel sections in beams, columns and grillages excluding cost of hangers.	Sqm	521
	Centering and shuttering		
R2-CS-CW-30	Centering and shuttering of steel plates with M.S. Angles including strutting, propping etc. and removal of form for :		
R2-CS-CW-30-a	Foundations, footings, bases of columns, rafts, pilecap	Sqm	300



Buildings Schedule/ Common Schedule 2018
Concrete Works

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-CW-30-b	Walls (any thickness) including attached buttresses, ,retaining wall, shear wall, diaphragm wall etc	Sqm	558
R2-CS-CW-30-c	Suspended floors, roofs, landings, balconies and access platform.	Sqm	568
R2-CS-CW-30-d	Lintels, beams, plinth beams, girders, and cantilevers beam.	Sqm	465
R2-CS-CW-30-e	Columns, Pillars, Piers, Posts and Struts.	Sqm	670
R2-CS-CW-30-f	Stairs (waist slab), folded slab, inclined slab	Sqm	483
R2-CS-CW-30-g	Spiral staircases (including landing).	Sqm	517
R2-CS-CW-30-h	Vertical and horizontal fins individually or forming box louvers	Sqm	817
R2-CS-CW-30-i	Extra for shuttering in circular or octagonal work , columns (20% of respective centering and shuttering item for column,pillar, post).	Sqm	134
R2-CS-CW-30-j	Cornices and mouldings	Sqm	604
R2-CS-CW-30-k	Weather shade, Chajjas, corbels, cantilever beam etc., including edges.	Sqm	624
R2-CS-CW-30-m	Arches, Domes, Shells upto 6m span	Sqm	1369



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-CW-30-I	Extra and over on item no. CS-CW-24-m for additional cost of centering for arches exceeding 6m span including all strutting, bolting, wedging etc. and removal (area of soffit to be measured).	Sqm	492
	Architectural Form Finished Concrete Shuttering		
R2-CS-CW-31	Centering and shuttering including strutting, propping etc. and removal of form for Architectural Form finished concrete work using water proof ply 12mm thick conforming to IS:710. The water proof ply shall be used for only 2(two) repetitions after first use, and any repetition after the first usage shall be taken up only after prior approval for water proof ply material for suitability for use in form finish concrete (Architectural finishes) by the Engineer-in-Charge in walls (any thickness) including attached pilasters, buttresses, plinth and string courses, Suspended floors, roofs, landings, balconies and access platform, Shelves (Cast in situ), Columns, Pillars, Piers, Abutments, Posts and Struts, Stairs, (excluding landings) except spiral-staircases with water proof ply 12mm thick.	Sqm	774
R2-CS-CW-32	Centering and shuttering including strutting, propping etc. and removal of form for Architectural Form finished concrete work using water proof ply 12mm thick conforming to IS:710. The water proof ply shall be used for only 2(two) repetitions after first use, and any repetition after the first usage shall be taken up only after prior approval for water proof ply material for suitability for use in form finish concrete (Architectural finishes) by the Engineer-in-Charge in lintels, beams, plinth beams, girders, bressumers and cantilevers Small lintel not exceeding 1.5m clear span, moulding as in cornices, window sills, string courses, bands, copings, bed plates, anchor blocks and the like with water proof ply 12mm thick.	Sqm	712
R2-CS-CW-33	Centering and shuttering including strutting, propping etc. and removal of form for Architectural Form finished concrete work using water proof ply 12mm thick conforming to IS:710. The water proof ply shall be used for only 2(two) repetitions after first use, and any repetition after the first usage shall be taken up only after prior approval for water proof ply material for suitability for use in form finish concrete (Architectural finishes) by the Engineer-in-Charge in shuttering in circular work for column in plan with water proof ply 12mm thick.	Sqm	968



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-CW-34	Extra over item no,CS-CW-25 and CS-CW-26 of Centering and shuttering for making chamfering in columns, beams, walls with wooden battens of varying sizes & shape as shown in detail typical section drawing .The rate includes providing required battens fixed to ply shuttering with nails etc.at all heights complete as per design and drawing and direction of Engineer-in-Charge.The wooden batten shall be used for only 2(two) repetitions after first use, and any repetition after the first usage shall be taken up only after prior approval of the material by the Engineer-in-Charge for suitability for use in form finish concrete works (Architectural finishes) . Length of batten for chamfering shall be measured and paid for in this item.	Rmt	44
	Reinforcement Steel		
R2-CS-CW-35	Providing and fixing in position steel bars reinforcement of various diameters for R.C.C. pile, pile caps, footings,raft,retaining wall,shear wall, lift wall, foundations, slabs, beams, columns, canopies, staircases, newels, chajjas, lintels, pardies, coping, fins, arches, etc. as per detailed designs, drawings and bar bending schedules,including straightening, cutting, bending, hooking the bars, binding with wires or tack welding, supporting as required etc. all complete at all levels.		
R2-CS-CW-35-a	Mild steel bars	MT	70486
R2-CS-CW-35-b	HYSD steel bars (Fe 415)	MT	73279
R2-CS-CW-35-c	Thermo-Mechanically Treated steel bars. (Fe 500 D)	MT	76770
R2-CS-CW-35-d	Thermo-Mechanically Treated steel bars. (Fe 600 D)	MT	82356
R2-CS-CW-35-e	Corrosion Resistant Steel (500 CRS D)	MT	82356
	Shotcrete (Gunite treatment)		



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
	(1) The work of short creting includes propping wherever required and removing debris from the site. The contractors will have to put up proper and sufficient hoarding, screen and fencing etc. during execution of work, to prevent damage/nuisance to Municipal Offices/premises and nothing will be paid extra on this account. (2) After breaking and removing loose or cracked concrete the measurement for thickness of the gunite should be taken as follows :-- Using nail and thread (line dori) the depth should be measured for every square meter at least 10 measurements should be taken. Based on these measurements the average depth should be worked out for overall work of guniting for slab, beam & column etc.(3) The rates of shortcreting are inclusive of scaffolding.		
R2-CS-CW-36	Providing and applying epoxy resin in 2 coats before guniting to bond fresh concrete and old concrete surface as per manufacturer's specifications and inclusive of cleaning of reinforcement as directed.	Sqm	497
R2-CS-CW-37	Guniting in the proportion of 1:3.5 (C.S.) to the R.C.C. slabs, walls, floor etc. to an average thickness 40 mm and providing B.R.C. fabric 15 cm sq.mesh, 3.15 mm (10 G) thick or M. S. bars 6 mm dia. at 10 cm to 20 cm C/C both ways as directed. The rate includes the cost of removal of loose or cracked concrete and roughening the surfaces to receive guniting but excludes rate of scaffolding which will be paid seperately.	Sqm	1089
R2-CS-CW-38	Guniting in the proportion of 1:3.5 (C.S.) to the R. C. C. ledges and cornices portions by cutting the projected portions 30 cm to 60 cm (as required) with water drip arrangement as required etc complete. The rate excludes scaffolding which will be paid seperately.	Sqm	1133
R2-CS-CW-39	Guniting in the proportion of 1:3.5 (C.S.) to encase R. S. beams and joists to an average thickness of 50 mm including removing all loose or cracked concrete from the sides and roughening the same to prepare them to receive treatment and providing B. R. C. fabric 15 cm sq. mesh 3.15 mm thick (10 G) of M. S. bars 6 mm dia. 100 mm C/C as directed including rendering smooth the guniting surface as in the above items. The gunited beams shall be of original shape and size. Extra thickness in the web portion will be paid separately. The rate excludes scaffolding which will be paid seperately.	Sqm	1176



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-CW-40	Guniting in the proportion of 1:3.5 (C.S.) R. C. C. beams, corbels, columns, vertical face etc., to an average thickness of 50 mm including removing all loose or cracked concrete from the site and roughening the same to prepare them to receive gunite treatment and providing B. R. C. fabric 15 cm sq. mesh 3.15 mm (10 G) thick or M. S. bars 6 mm dia. at 10 cm to 20 cm C/C both ways as directed, including rendering smooth the gunited surface as in the above items. The gunited beams, columns shall be as far as practicable to the original size. The rate excludes	Sqm	1176
R2-CS-CW-41	Guniting in the proportion of 1:3.5 (C.S.) (without reinforcement of M.S. bars or B.R.C. fabric) for extra thickness of gunite over and above that specified in all the above items. The rate excludes scaffolding which will be paid separately.	Cu.M.	15900
R2-CS-CW-42	Guniting in the proportion 1:3.5 (C.S.) to an average thickness of 50 mm for waterproofing basement slabs, basement lift pit walls, retaining wall, etc., including provision of B.R.C. fabric 15 cm sq. mesh 3.15 mm thick (10 G) or M.S. bars 6 mm dia. at 10 cm to 30 cm C/C as directed roughening the original surface for receiving the gunite and leaving the site clean. The rate excludes scaffolding which will be paid separately.	Sqm	1201
R2-CS-CW-43	Guniting in the proportion of 1:3.5 (C.S.) to the R.C.C. slabs, walls, vertical face, floor etc. to an average thickness 25 mm and providing B.R.C. fabric 15 cm sq. mesh, 3.15 mm (10 G) thick or M. S. bars 6 mm dia. at 10 cm to 20 cm C/C both ways as directed. The rate includes the cost of removal of loose or cracked concrete and roughening the surfaces to receive guniting. The rate excludes scaffolding which will be paid separately.	Sqm	948



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-CW-44	Jacketting the existing column of size as shown in the drawing by removing the concrete cover to reinforcement, by chipping or other suitable means to expose the reinforcement of existing column in order to make available the same for binding the extra reinforcement as shown in the drawing and also removal of rust, scales of the reinforcement in order to provide and apply approved make of epoxy resin to get proper bond with newly laid M25 grade concrete. The aforesaid concrete shall be laid by the sides of the existing column with uniform thickness of 115 mm or as specified, for jacketing purposes thereby increasing the sectional dimensions by 150 mm or as specified (excluding finishing) at any height with requisite shuttering, centring, scaffolding, propping, repairing the existing surface as specified and also removal of debris, curing etc. complete as per design and drawing etc. directed. (NOTE :- Reinforcement will be paid separately under respective item of schedule)	Cum	15762
R2-CS-CW-44a	Jacketting the existing beam or beam connections as shown in the drawing by removing the concrete cover to reinforcement, by chipping or other suitable means to expose the reinforcement of existing beam or beam connections in order to make available the same for binding the extra reinforcement as shown in the drawing and also removal of rust, scales of the reinforcement in order to provide and apply approved make of epoxy resin to get proper bond with newly laid M25 grade concrete. The aforesaid concrete shall be laid by the sides of the existing beam with uniform thickness of 75 mm or as specified, for jacketing purposes thereby increasing the sectional dimensions by 100 mm or as specified (excluding finishing) at any height with requisite shuttering, centring, scaffolding, propping, repairing the existing surface as specified and also removal of debris, curing etc. complete as per design and drawing etc. directed. (NOTE :- Reinforcement will be paid separately under respective item of schedule)	Cum	13542
R2-CS-CW-45	Providing Ready mix Micro Concrete jacketing to walls or beams of thickness upto 75 mm using Polymer modified cement premixed quartz sand aggregate packed in bags of standard manufacture, for high early strength of 40 N /mm sq.cm of approved brand. The dry product is to be mixed with 12.5% water by weight, along with washed and poured into rigid form work moulds & tamped properly, & cured for 3 days. [Payment is to be made by weight premixed of micro concrete product consumed as per site register records. No extra payment shall be made for shuttering or any other material.	Kg	40



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
	Miscellaneous items		
R2-CS-CW-46	Providing and laying premoulded asphalt filler for expansion joints cut to the required depth and camber.		
R2-CS-CW-46-a	12 mm thick	Sqm	699
R2-CS-CW-46-b	18 mm thick	Sqm	574
R2-CS-CW-46-c	25 mm thick	Sqm	713
R2-CS-CW-47	Providing and fixing copper strip upto 25cm wide and of 1.6 mm thick as specified for expansion joints etc. as per design.	Kg	695
R2-CS-CW-48	Providing and fixing thermocol board for expansion joints as directed.		
R2-CS-CW-48-a	25 mm thick	Sqm	82
R2-CS-CW-48-b	35 mm thick	Sqm	195
R2-CS-CW-48-c	50 mm thick	Sqm	280
R2-CS-CW-49	Sealing the expansion joints by polysulphide sealant so as to make the joint completely water tight complete as directed.		
R2-CS-CW-49-a	size 25 mm x 25 mm	Rmt	1393
R2-CS-CW-49-b	size 35 mm x 25 mm	Rmt	1898
R2-CS-CW-49-c	size 50 mm x 25 mm	Rmt	2636
R2-CS-CW-50	Providing & fixing 25mm thick alkali resistant, closed cell polymer based expansion joint filler board of approved make, having minimum density of 28 Kg/ Cum & compression strength of 0.21 Kg/sqm; using double sided adhesive tape, all complete as per the particular specifications and instructions of the Engineer in-charge.	Sqm	466
R2-CS-CW-51	Providing and fixing sheet covering over expansion joints with iron screws as per design to match the colour / shade of wall treatment.		
R2-CS-CW-51-a	Aluminium fluted strips 3.15mm thick.		
R2-CS-CW-51-a-1	150mm wide	Rmt	553
R2-CS-CW-51-a-2	200mm wide	Rmt	715



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-CW-51-b	Non-asbestos fibre cement board 6 mm thick as per IS:14862		
R2-CS-CW-51-b-1	150mm wide	Rmt	395
R2-CS-CW-51-b-2	200mm wide	Rmt	468
R2-CS-CW-52	Providing and fixing hydrophilic water sealing materials (20mm x 10mm) of assorted profiles of approved make at construction joints at different locations during the construction of Basement Raft RCC and peripheral RCC Retaining wall, construction joints and at other water retaining structures like UG and OH tanks including creating necessary nominal trapezoidal key shape in the formwork finish or by mason's finish, including applying suitable adhesives and sealants as per particular specification and as recommended, supplied by the approved manufacturer for proper and highly secure bonding with substrate, rough / smooth and wet / dry, proper splicing and jointing at corners, T, L and X junctions using suitable glue, at all such locations, and as directed by Engineer in-charge.	Rmt	226
R2-CS-CW-53	Providing and applying Hydrophobic Silane-Siloxane coating of approved make, to exposed concrete surfaces at all heights & leads and wherever instructed by Engineer-In-Charge. The treatment shall be in two coats wet-on-wet or as recommended by approved manufacturer including preparation of surfaces by cleaning, curing, protecting, independent double legged scaffolding etc. complete .The rate includes the cost of all materials , its application by specialized applicators by spray coating with airless sprayer, cleaning the substrate of all laitance, construction dust, contaminants, double scaffolding, labour etc., all complete and at all heights, leads as per particular specification & directions of Engineer-in-Charge. Guarantee Bond in the prescribed proforma shall be executed by the contractor for the satisfactory performance of the application for 10 years.	Sqm	186
R2-CS-CW-54	Chipping /removing loose concrete upto reinforcement bars, without damaging the reinforcement, removing all the loose materials and to make all the exposed surfaces free from oil, dust and all impurities etc complete.	Sqm	236
R2-CS-CW-55	Removing corrosion of steel reinforcement by mechanical means like wire brushing, chipping to remove loose rust and then applying rust removal solution by using brush application, leaving the surface for at least 15 to 30 minutes, then removing loose materials by scrubbing or with brush and applying polymer bond to the old concrete surface before applying Polymer mortar.	Sqm	33



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-CW-56	Providing and applying Ready mix Polymer modified cement mortar of average thickness 15mm using Polymer in one or more layers in proportion 1:5:15 of Polymer Cement Quartz Sand as manufacturer's specifications in specific layers, curing the surface after 72 hours of application with wet gunny bags etc and by finishing the surface with 12mm thick (1:3) Cement sand plaster .	Sqm	2782
R2-CS-CW-57	Providing and applying Ready Mix Polymer modified cement mortar of average thickness 30mm using Polymer in two layers in proportion 1:5:15 of Polymer Cement Quartz Sand as manufacturer's specifications in specific layers, curing the surface after 72 hours of application with wet gunny bags etc and by finishing the surface with 12mm thick (1:3) Cement	Sqm	5281
R2-CS-CW-58	Extra for spreading broken glass pieces under pavement 0.12 cu.m. of broken glass pieces per 10 sq.m. of area.	Sqm	45
R2-CS-CW-59	Providing Pre fabricated concrete louvres of Nominal Mix 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6mm nominal size) reinforced with 1.6 mm dia mild steel wire including centering and shuttering, roughening cleaning, fixing and finishing in cement mortar 1:3 (1 cement: 3 fine sand) etc. complete	Sqm	1312
R2-CS-CW-60	Providing and applying modified approved polymer coating for concrete surfaces up to plinth in locations where attack on steel is anticipated due to excessive presence of sulphates and chlorides in ground water.	Sqm	906
R2-CS-CW-61	Providing hot dip galvanizing conforming to IS 12594-1988 to reinforcement bars, having mass of zinc coating shall not be less than 610 gms/sqm of bar surface area, unloading the material at Pre-treatment area and 1) Degreasing to remove grease, oil, dirt, paints 2) Rinsing with water to remove any of the de-greasing solution carried forward on the surface of bars. 3) Acid pickling by immersing bars in a dilute solution of Hydrochloric acid solution to remove all rust, mill scales, any other surface contaminants 4) Rinsing with water to remove excess acid and iron salts. 5) Jet spraying the surface with water for removal of pickling salts, 6) Fluxing - immersing the bars in a heated aqueous zinc ammonium chloride solution forming an oxide film to make surface optimally clean and ready for galvanizing, 7) Bars then to be dried on hot plate, 8) Galvanising - The bars to be immersed in a high grade 99.95% pure molten zinc to allow reaction to form a series of zinc-iron alloy layers for sufficient time to have the minimum coating thickness as specified, 9) Quenching - The bars then to be immersed in a quenching solution to stop galvanising reaction to ensure proper adhesion, 10) Passivation - to make bars less susceptible to wet storage stains, the bars to be treated by dipping in sodium dichromate solution (trivalent) (0.2%), 11) Finishing - if necessary the material to be cleaned to remove excess zinc drips and runs on surface. 12) Packing the		

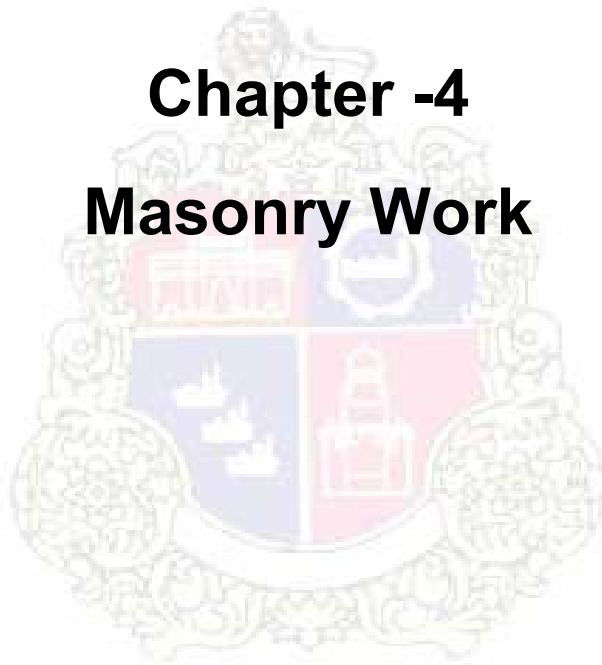


ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
	Minimum requirements:		
	1) Minimum zinc bath size must be 8 mtr (L) x 1.8 Mtr (D) x 1.2 Mtr (W). 2) Minimum length of Pre and Post Treatment tanks must be 11 Mtrs. 3) Zinc purity in the bath must be minimum 98.5% as per IS 209. 4) Vibrators installed along with dual speeds in Dipping crane. 5) BIS License required as per IS 12594 - 1988.		
R2-CS-CW-61-a	For 8 to 12 mm reinforcement bars	MT	3990
R2-CS-CW-61-b	For 16 to 25 mm reinforcement bars	MT	3990
R2-CS-CW-61-c	For 8 to 12 mm reinforcement bars	MT	4256



Chapter -4

Masonry Work



Buildings Schedule/ Common Schedule 2018
Masonry Works

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-MW	Masonry Works		
	BRICK WORK		
R2-CS-MW-1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 3.5 and above in foundation and plinth in:		
R2-CS-MW-1-a	Cement mortar 1:3 (1 cement : 3 coarse sand)	Cum	6031
R2-CS-MW-1-b	Cement mortar 1:4 (1 cement : 4 coarse sand)	Cum	5807
R2-CS-MW-1-c	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	5584
R2-CS-MW-2	Brick work with common burnt clay modular bricks of class designation 3.5 and above in foundation and plinth in:		
R2-CS-MW-2-a	Cement mortar 1:3 (1 cement : 3 coarse sand)	Cum	5565
R2-CS-MW-2-b	Cement mortar 1:4 (1 cement : 4 coarse sand)	Cum	5368
R2-CS-MW-2-c	Cement Mortar 1:6 (1 cement : 6 coarse sand)	Cum	5171
R2-CS-MW-3	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 3.5 and above in superstructure above plinth level upto floor five level in all shapes and sizes in :		
R2-CS-MW-3-a	Cement mortar 1:3 (1 cement : 3 coarse sand)	Cum	7153
R2-CS-MW-3-b	Cement mortar 1:4 (1 cement : 4 coarse sand)	Cum	6930
R2-CS-MW-3-c	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	6706
R2-CS-MW-4	Brick work with common burnt clay modular bricks of class designation 3.5 and above in superstructure above plinth level upto floor five level in all shapes and sizes in :		
R2-CS-MW-4-a	Cement mortar 1:3 (1 cement : 3 coarse sand)	Cum	7153
R2-CS-MW-4-b	Cement mortar 1:4 (1 cement : 4 coarse sand)	Cum	6930
R2-CS-MW-4-c	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	6706
R2-CS-MW-5	Brick work with common burnt clay machine moulded perforated bricks of class designation 12.5 conforming to IS: 2222 in superstructure above plinth level upto floor five level in cement mortar 1:6 (1 cement : 6 coarse sand) :		
R2-CS-MW-5-a	With F.P.S.(non modular) bricks	Cum	6706
R2-CS-MW-5-b	With Modular bricks	Cum	6284
R2-CS-MW-6	Extra for brick work / AAC block masonry / Tile brick masonry in superstructure all level, for each four floors or part thereof by mechanical means.	Cum	394



Buildings Schedule/ Common Schedule 2018
Masonry Works

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-MW-7	Extra for forming cavity 5 cm to 7.5 cm wide in cavity walls with necessary weep and vent holes including use of cores and cost of providing and fixing bitumastic coated M .S. ties 300 mm long of 25x3 mm section at not less than 3 ties per Sqm as per approved design. (Measurement shall be made for per Sqm of elevational area on one side only)	Sqm	141
R2-CS-MW-8	Brick work in plain arches in superstructure above plinth level and upto floor five level including centering and shuttering complete for span up to 6 metres with common burnt clay F.P.S. (non modular) bricks of class designation 3.5 and above in cement mortar 1:3 (1 cement : 3 coarse sand)	Cum	7441
R2-CS-MW-9	Extra for additional cost of centering for arches exceeding 6m span including all shuttering, bolting, wedging and removal (Area of the soffit to be measured)	Sqm	1756
	HALF BRICK MASONRY		
R2-CS-MW-10	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 3.5 and above in foundations and plinth in :		
R2-CS-MW-10-a	Cement mortar 1:3 (1 cement : 3 coarse sand)	Sqm	681
R2-CS-MW-10-b	cement mortar 1:4 (1 cement : 4 coarse sand)	Sqm	656
R2-CS-CS-MW-11	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 3.5 and above in superstructure above plinth level up to floor V level.		
R2-CS-MW-11-a	Cement mortar 1:3 (1 cement :3 coarse sand)	Sqm	806
R2-CS-MW-11-b	Cement mortar 1:4 (1 cement :4 coarse sand)	Sqm	781
R2-CS-MW-12	Extra for half brick masonry in superstructure, above floor V level for every four floors or part thereof by mechanical means.	Sqm	35
R2-CS-MW-13	Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry.	Sqm	703
	BRICK TILE WORK		
R2-CS-MW-14	Tile brick masonry work 5 cm thick with common burnt clay F.P.S. (non modular) tile bricks of class designation 10 in cement mortar 1:3 (1 cement : 3 coarse sand) in superstructure above plinth and upto floor five level.	Sqm	649
	HONEY COMB WORK, Fly ASH AND FIRE CLAY BRICK		
R2-CS-MW-15	Honey-comb brick work 10 / 11.5 cm thick with common burnt clay bricks of class designation 3.5 and above in super structure at all levels in soak pit, garden walls, etc.		



Buildings Schedule/ Common Schedule 2018
Masonry Works

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-MW-15-a	Cement mortar 1:4 (1 cement : 4 coarse sand)	Sqm	457
R2-CS-MW-15-b	Cement mortar 1:6 (1 cement : 6 coarse sand)	Sqm	443
R2-CS-MW-16	Brick work with clay flyash F.P.S. (non modular) brick of class designation 3.5 and above in superstructure above plinth level up to floor five level in		
R2-CS-CS-MW-16-a	Cement mortar 1:4 (1 cement : 4 coarse sand)	Cum	6511
R2-CS-CS-MW-16-b	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	6287
R2-CS-MW-17	Brick work with fire bricks of fire clay (refractory bricks) machine moulded conforming to IS:6 in crematorium, fire stations, etc. at upto floor five level in :		
R2-CS-MW-17-a	Cement mortar 1:4 (1 cement : 4 coarse sand)	Cum	5760
R2-CS-MW-17-b	Cement mortar 1:6 (1 cement : 6 Coarse sand)	Cum	6230
	UNCOURSED RUBBLE MASONRY		
R2-CS-MW-18	Uncoursed rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20mm nominal size) upto plinth level with :		
	Cement mortar 1:6 (1 cement : 6 coarse sand).	Cum	4326
R2-CS-MW-19	Random rubble masonry with hard stone in superstructure above plinth level , including leveling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20mm nominal size) at window sills, ceiling level and the like.Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	5429
R2-CS-MW-20	Extra for random rubble masonry with hard stone in square and rectangular pillars	Cum	576
R2-CS-MW-21	Extra for random rubble masonry with hard stone in circular pillars	Cum	1449
	COURSED RUBBLE MASONRY		
R2-CS-MW-22	Coursed rubble masonry (first sort) with hard stone in foundation and plinth with :		
	Cement mortar 1:6	Cum	5149
R2-CS-MW-23	Coursed rubble masonry (second sort) with hard stone in foundation and plinth with :		
	Cement mortar 1:6	Cum	4807



Buildings Schedule/ Common Schedule 2018
Masonry Works

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-MW-24	Coursed rubble masonry (first sort) with hard stone in superstructure above plinth with :		
	Cement mortar 1:6	Cum	6250
R2-CS-MW-25	Coursed rubble masonry (second sort) with hard stone in superstructure above plinth with :		
	Cement mortar 1:6	Cum	5907
	ASHLAR MASONRY		
R2-CS-MW-26	Stone work in plain ashlar in super structure upto floor five level in cement mortar 1:6 (1 cement : 6 coarse sand) including pointing with cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade :		
	One face dressed		
R2-CS-MW-26-a	Red sand stone Cum	Cum	37819
R2-CS-MW-26-b	White sand stone Cum	Cum	38891
	Both face dressed		
R2-CS-MW-26-c	Red sand stone Cum	Cum	51090
R2-CS-MW-26-d	White sand stone Cum	Cum	52161
R2-CS-MW-27	Stone work plain ashlar in arches in super structure upto floor V level in cement mortar 1:3 (1 cement : 3 coarse sand) including centring, shuttering and pointing with white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade.		
	One face dressed		
R2-CS-MW-27-a	Red sand stone Cum	Cum	41499
R2-CS-MW-27-b	White sand stone Cum	Cum	42571
	Both face dressed		
R2-CS-MW-27-c	Red sand stone Cum	Cum	54770
R2-CS-MW-27-d	White sand stone Cum	Cum	59291
R2-CS-MW-28	Stone work plain ashlar in domes , in super structure upto floor V level in cement mortar 1:3 (1 cement : 3 coarse sand) including centring, shuttering and pointing with white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade.		
	One face dressed		
R2-CS-MW-28-a	Red sand stone Cum	Cum	65014
R2-CS-MW-28-b	White sand stone Cum	Cum	66086



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Masonry Works

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
	Both face dressed		
R2-CS-MW-28-c	Red sand stone Cum	Cum	98352
R2-CS-MW-28-d	White sand stone Cum	Cum	99424
R2-CS-MW-29	Extra for stone work, random rubble / coursed rubble masonry / ashlar masonry above floor V level for every four floors or part thereof.	Cum	1178
	STONE WORK IN DRY CLADDING		
R2-CS-MW-30	Providing and fixing dry cladding upto 10 metre heights with 30 mm thick gang saw cut stone with (machine cut edges) of uniform colour and size upto 1mx1m, fixed to structural steel frame work and/ or with the help of cramps, pins etc. and sealing the joints with approved weather sealant as per Architectural drawing and direction of Engineer-in-charge. (The steel frame work, stainless steel cramps and pins etc. shall be paid for separately).		
R2-CS-MW-30-a	Red sand stone	Sqm	5618
R2-CS-MW-30-b	White sand stone	Sqm	6027
R2-CS-MW-31	Providing and fixing structural steel frame (for dry cladding with 30 mm thick gang saw cut with machine cut edges sand stone) on walls at all heights using M.S. square/ rectangular tube in the required pattern as per architectural drawing, including cost of cutting, bending, welding etc. The frame work shall be fixed to the wall with the help of M.S. brackets/ lugs of angle iron/ flats etc. which shall be welded to the frame and embedded in brick wall with cement concrete block 1:2:4 (1cement :2 coarse sand :4 graded stone aggregate 20 mm nominal size) of size 300x230x300 mm, including cost of necessary centring and shuttering and with approved expansion hold fasteners on CC/RCC surface, including drilling necessary holes. Approved cramps/ pins etc. shall be welded to the frame work to support stone cladding, the steel work will be given a priming coat of Zinc primer as approved by Engineerin-charge and painted with two or more coats of epoxy paint (Shop drawings shall be submitted by the contractor to the Engineer-in-charge for approval before execution). The frame work shall be fixed in true horizontal & vertical lines/planes. (Only structural steel frame work shall be measured for the purpose of payment, stainless steel cramps shall be paid for separately and nothing extra shall be paid).	Kg	144



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-MW-32	Providing and fixing adjustable stainless steel cramps of approved quality, required shape and size, adjustable with stainless steel nuts, bolts and washer (total weight not less than 260 gms), for dry stone cladding fixed on frame work at suitable location, including making necessary recesses in stone slab, drilling required holes etc complete as per direction of the Engineer-in-charge.	Each	267
	AAC BLOCK MASONRY		
R2-CS-MW-33	Providing and laying autoclaved aerated (cellular) cement blocks masonry with more than 100 mm thick AAC blocks in cement mortar 1:4 (1 cement : 4 coarse sand) including RCC stiffeners. The rate includes providing and placing in position 2 Nos 6 mm dia M.S. bars at every third course of masonry work, racking of joints, scaffolding and curing,etc. completed as directed by Engineer-in-Charge.	Cum	6911
	COLCRETE MASONRY		
R2-CS-MW-34	Providing colcrete masonry with contractors rubble for foundation, and superstructure in cement and sand grout of 1:3 by weight with stones facing on both sides, including the cost of racking of joints wherever necessary curing etc. complete as directed.	Cum	3866
R2-CS-MW-35	Providing colcrete masonry with free Municipal rubble for foundations and superstructures in cement and sand grout of 1:3 by weight with stone facing on both sides, including the cost of racking of joints wherever necessary curing etc. complete as directed.	Cum	3065
R2-CS-MW-36	Providing colcrete masonry with contractors rubble for foundations and superstructures in cement and sand grout of 1:3 by weight with grout finish of 12 mm thickness on both sides, including curring etc. complete as directed.	Cum	5007
R2-CS-MW-37	Providing colcrete masonry with free Municipal rubble for foundations and superstructures in cement and sand grout of 1:3 by weight withgrout finish of 12 mm thickness on both sides, including curing etc. complete as directed.	Cum	4205



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Masonry Works

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
	MISCELLANEOUS WORK		
R2-CS-MW-38	Stone work, plain in copings, cornices, string courses and plinth courses, upto 75 mm thick in cement mortar 1:6 (1 cement: 6 coarse sand) including pointing with white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade.		
R2-CS-MW-38-a	Red sand stone	Cum	52731
R2-CS-MW-38-b	White sand stone	Cum	53803
R2-CS-MW-39	Brick cornice, architraves moulded 75mm projection from brickwork or RCC lintel and 10 to 15 cm in height in cement mortar 1:3 finished smooth with sand faced plaster 20 mm thick in two layers with W.P. Compound.	Rmt	448
R2-CS-MW-40	Constructing precast cement concrete solid block masonry (1:3) in valve chambers of any size and wall thickness, the concrete block used shall be of 1:2:4 grade and of size 400x200x300, including racking of joints, curing etc complete and as directed by Engineer In Charge.	Cum	6436



Chapter -5

Plastering



Buildings Schedule/ Common Schedule 2018
Plastering Works

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-PL	PLASTERING WORKS			
R2-CS-PL-01	Providing and applying 6 mm thick internal sand faced ceiling plaster in cement mortar 1:3 at all heights and locations in single coat for concrete surfaces including scaffolding, hacking of concrete surface, watering, finishing, curing etc. complete.	Sqm	233	
R2-CS-PL-02	Providing and applying 6 mm thick internal ceiling plaster in cement mortar 1:3 with neeru finish at all heights and locations in single coat for concrete surfaces including scaffolding, hacking of concrete surface, watering, finishing, curing etc. complete.	Sqm	313	
R2-CS-PL-03	Providing and applying 6 mm thick internal ceiling plaster in single coat in cement mortar 1:3 with white cementitious wall putty (Birla white or equivalent) finish at all heights and locations for concrete surfaces including hacking of concrete surface, watering, finishing, curing, scaffolding etc. complete.	Sqm	304	
R2-CS-PL-04	Providing and applying 12 mm thick internal sand faced plaster in cement mortar 1:3 at all heights and locations in one coat for masonry (except stone masonry) and concrete surfaces including racking out joints, hacking of concrete surface, watering, finishing, curing, scaffolding etc. complete.	Sqm	268	
R2-CS-PL-05	Providing and applying 12 mm thick internal plaster in cement mortar 1:3 with neeru finish at all heights and locations in one coat for masonry (except stone masonry) and concrete surfaces including racking out joints, hacking of concrete surface, watering, finishing, curing, scaffolding etc. complete.	Sqm	361	
R2-CS-PL-06	Providing and applying 12 mm thick internal plaster in one coat in cement mortar 1:3 with white cementitious wall putty (Birla or equivalent) at all heights and locations for masonry (except stone masonry) and concrete surfaces including racking out joints, hacking of concrete surface, watering, finishing, curing, scaffolding etc. complete.	Sqm	352	
R2-CS-PL-07	Providing and applying 12 mm thick internal plaster with neeru finish by using ready-mix mortar as per manufacturers recommendations at all heights and locations for masonry (except stone masonry) and concrete surfaces including racking out joints, hacking of concrete surface, finishing, curing, scaffolding etc. complete.	Sqm	473	
R2-CS-PL-08	Providing and applying 20 mm thick internal sand faced cement plaster at all heights and locations in cement mortar specified below in two coats for masonry (except stone masonry) and concrete surfaces including racking out joints, hacking of concrete surface, watering, finishing, curing, scaffolding etc complete as directed By Engineer In Charge.			
R2-CS-PL-08-a	In cement mortar 1:2	Sqm	480	



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-PL-08-b	In cement mortar 1:3	Sqm	459	
R2-CS-PL-08-c	In cement mortar 1:4	Sqm	437	
R2-CS-PL-09	Providing and applying 20 mm thick internal plaster with neeru finish at all heights and locations in cement mortar specified below in two coats for masonry (except stone masonry) and concrete surfaces including racking out joints, hacking of concrete surface, watering, finishing, curing, scaffolding etc complete as directed By Engineer In Charge.			
R2-CS-PL-09-a	In cement mortar 1:2	Sqm	559	
R2-CS-PL-09-b	In cement mortar 1:3	Sqm	538	
R2-CS-PL-09-c	In cement mortar 1:4	Sqm	516	
R2-CS-PL-10	Providing and applying 20 mm thick internal plaster with neeru finish by using ready-mix Roofit mortar at all heights and locations as per manufacturers recommendations for masonry (except stone masonry) and concrete surfaces including racking out joints, hacking of concrete surface, finishing, curing, scaffolding etc. complete.	Sqm	634	***
R2-CS-PL-11	Providing and applying 30 to 40 mm thick internal sand faced cement plaster to the all types of stone masonry walls, concrete surfaces at all heights and locations in cement mortar 1:4 in three coats including racking out joints, hacking of concrete surface, finishing, curing, scaffolding etc complete as directed By Engineer In Charge. Min. time lag between two coats shall be 24 hours.(as per IS 2402 of 1963.)	Sqm	639	
R2-CS-PL-12	Providing and applying 30 to 40 mm thick internal cement plaster with neeru finish to the all types of stone masonry walls, concrete surfaces at all heights and locations in cement mortar 1:4 in three coats including racking out joints, hacking of concrete surface, finishing, curing, scaffolding etc complete as directed By Engineer In Charge. Min. time lag between two coats shall be 24 hours.(as per IS 2402 of 1963.)	Sqm	718	
R2-CS-PL-13	Providing and applying 13 mm thick internal plaster in gypsum (Stuccoplaster) of approved make with neat smooth finish at all heights and locations for masonry (except stone masonry) and concrete surfaces including scaffolding, hacking of concrete surface, finishing etc. complete as per manufacturers specifications and as directed by Engineer In Charge.	Sqm	376	



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Plastering Works

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-PL-14	Providing and applying 12 mm thick sand faced external cement plaster for soffit of slabs & stair, beams, columns, chajja etc. upto 10m from ground level and at all locations in cement mortar as specified below including providing water proofing compound to the first coat of plaster as per manufacturers specification, hacking of concrete surface, finishing, curing, scaffolding etc complete as directed By Engineer In Charge.			
R2-CS-PL-14-a	In cement mortar 1:1	Sqm	322	
R2-CS-PL-14-b	In cement mortar 1:2	Sqm	296	
R2-CS-PL-14-c	In cement mortar 1:3	Sqm	283	
R2-CS-PL-15	Providing and applying 20 mm thick external sand faced cement plaster upto 10m from ground level and at all locations in cement mortar proportion specified below in two coats for masonry (except stone masonry) and concrete surfaces including providing water proofing compound to the first coat of plaster as per manufacturers specification, racking out joints, hacking of concrete surface, finishing, curing, scaffolding, etc complete as directed By Engineer In Charge.			
R2-CS-PL-15-a	In cement mortar 1:3	Sqm	462	
R2-CS-PL-15-b	In cement mortar 1:4	Sqm	438	
R2-CS-PL-16	Providing and applying 20 mm thick external sand faced cement plaster with neat cement rendering upto 10m from ground level and at all locations in cement mortar proportion specified below in two coats for masonry (except stone masonry) and concrete surfaces including providing water proofing compound to the first coat of plaster as per manufacturers specification, racking out joints, hacking of concrete surface, finishing, curing, scaffolding etc complete as directed By Engineer In Charge. Min. time lag between two coats shall be 24 hours.(as per IS 2402 of 1963.)			
R2-CS-PL-16-a	In cement mortar 1:1	Sqm	571	
R2-CS-PL-16-b	In cement mortar 1:2	Sqm	529	
R2-CS-PL-16-c	In cement mortar 1:3	Sqm	518	



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-PL-17	Providing and applying 25 mm thick external sand faced cement plaster with neat cement rendering upto 10m from ground level and at all locations in cement mortar proportion specified below in two coats for masonry (except stone masonry) and concrete surfaces including providing water proofing compound to the first coat of plaster as per manufacturers specification, racking out joints, hacking of concrete surface, finishing, curing, scaffolding etc complete as directed By Engineer In Charge. Min. time lag between two coats shall be 24 hours.(as per IS 2402 of 1963.)			
R2-CS-PL-17-a	In Cement mortar 1:1	Sqm	641	
R2-CS-PL-17-b	In cement mortar 1:2	Sqm	588	
R2-CS-PL-17-c	In Cement mortar 1:3	Sqm	561	
R2-CS-PL-18	Providing and applying 20 mm thick external sand faced cement plaster by using ready-mix mortar upto 10m from ground level and at all locations in two coats for masonry (except stone masonry) and concrete surfaces including racking out joints, hacking of concrete surface, finishing, curing, scaffolding etc. complete.	Sqm	662	***
R2-CS-PL-19	Providing and applying 20 mm thick external colour crete cement plaster made up of colour crete cement of approved quality and khrasalia sand upto 10m from ground level and at all locations in cement mortar 1:2 including 12 mm thick base coat as directed to match existing khandkee work with joints emphasized properly as specified for masonry (except stone masonry) and concrete surfaces including providing water proofing compound to the first coat of plaster as per manufacturers specification, racking out joints, hacking of concrete surface, finishing, curing, scaffolding etc complete as directed By Engineer In Charge. Min. time lag between two coats shall be 24 hours.(as per IS 2402 of 1963.)	Sqm	480	**
R2-CS-PL-20	Providing and applying 20 mm thick external Malad crete cement plaster made of Malad chip powder for masonry (except stone masonry) and concrete surfaces upto 10m from ground level and at all locations in cement mortar 1:2 including 12 mm thick base coat for brickwork and concrete surfaces including, providing water proofing compound to the first coat of plaster as per manufacturers specification, racking out joints, hacking of concrete surface, finishing, curing, scaffolding etc complete as directed By Engineer In Charge. Min. time lag between two coats shall be 24 hours.(as per IS 2402 of 1963.)	Sqm	577	***



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-PL-21	Providing and applying 25 mm thick external plaster with sea gravel finish upto 10m from ground level and at all locations in cement mortar 1:3 in two coats for masonry (except stone masonry) and concrete surfaces as directed including, providing water proofing compound to the first coat of plaster as per manufacturers specification, racking out joints, hacking of concrete surface, finishing, curing, scaffolding etc complete as directed By Engineer In Charge. Min. time lag between two coats shall be 24 hours.(as per IS 2402 of 1963.)	Sqm	380	***
R2-CS-PL-22	Providing and applying 25 mm thick (average) external sand faced cement rough cast plaster upto 10m from ground level and at all locations in cement mortar 1:4 in two coats for masonry (except stone masonry) and concrete surfaces including, providing water proofing compound to the first coat of plaster as per manufacturers specification, racking out joints, hacking of concrete surface, providing bands, drip moulds, grooves etc. finishing, curing, scaffolding etc complete as directed By Engineer In Charge.	Sqm	723	
R2-CS-PL-23	Providing and applying 30 to 40 mm thick external sand faced rough cast cement plaster upto 10m from ground level and at all locations in cement mortar 1:4 in two coats for masonry (except stone masonry) and concrete surfaces including, providing water proofing compound to the first coat of plaster as per manufacturers specification, racking out joints, hacking of concrete surface, providing bands, drip moulds, grooves etc. finishing, curing, scaffolding etc complete as directed By Engineer In Charge.	Sqm	813	
R2-CS-PL-24	Providing and applying 15 mm thick external sand faced cement plaster upto 10m from ground level and at all locations in cement mortar 1:4 in two coats for masonry (except stone masonry) and concrete surfaces including, racking out joints, hacking of concrete surface, providing bands, drip moulds, grooves etc. finishing, curing, scaffolding etc complete as directed By Engineer In Charge.	Sqm	251	
R2-CS-PL-25	Extra for every additional height of 3 m or part thereof above 10m from ground level for all types of external plastering.	Sqm	55	
R2-CS-PL-26	Providing and applying cement plaster for band projections of 25 to 30mm thk. and 75 to 125 mm wide, with smooth/ decorative/ rough finished surface, at all heights and locations in cement mortar 1:3 for masonry (except stone masonry) and concrete surfaces including, racking out joints, hacking of concrete surface, finishing, curing, scaffolding etc complete as directed By Engineer In Charge.	Rmt	104	**



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-PL-27	Providing and applying cement plaster for band projections of 25 to 30mm thk. and 150 to 200mm wide, with smooth/ decorative/ rough finished surface, at all heights and locations in cement mortar 1:3 for masonry (except stone masonry) and concrete surfaces including, racking out joints, hacking of concrete surface, finishing, curing, scaffolding etc complete as directed By Engineer In Charge.	Rmt	128	**
R2-CS-PL-28	Providing and applying cement plaster for molded architrave of 25 to 40mm thk and 75 to 125mm wide, with smooth/ decorative/ rough finished surface, at all heights and locations in cement mortar 1:3 for masonry (except stone masonry) and concrete surfaces including, racking out joints, hacking of concrete surface, finishing, curing, scaffolding etc complete as directed By Engineer In Charge.	Rmt	115	
R2-CS-PL-29	Providing and applying cement plaster for molded architrave of 25 to 40mm thk and 150 to 200mm wide, with smooth/ decorative/ rough finished surface, at all heights and locations in cement mortar 1:3 for masonry (except stone masonry) and concrete surfaces including, racking out joints, hacking of concrete surface, finishing, curing, scaffolding etc complete as directed By Engineer In Charge.	Rmt	137	**
R2-CS-PL-30	Extra for 12 to 20mm wide and 6 to 12mm in depth forming groove in 20 to 25 mm thick plaster including scaffolding, finishing, curing etc complete as directed By Engineer In Charge.	Rmt	52	
R2-CS-PL-31	Marking letters and numerals upto 75mm height formed of plaster projections finished with cement or neeru and three coats of cement or synthetic enamel paint of an approved tint/color and make as directed at all heights and locations including curing, scaffolding etc complete as directed By Engineer In Charge.	Rmt	157	
R2-CS-PL-32	Marking letters and numerals more than 75mm and upto 150mm height formed of plaster projections finished with cement or neeru and three coats of cement or synthetic enamel paint of an approved tint/color and make as directed at all heights and locations including providing bands, drip moulds, grooves etc. finishing, curing, scaffolding etc complete as directed By Engineer In Charge.	Rmt	184	
R2-CS-PL-33	Extra for providing and mixing water proofing material Conplast X4211C (Fosroc) or equivalent in cement plaster work in proportion recommended by the manufacturers. (Per bag of cement of 50 kg used in the mix.)	Per bag of cement of 50 kg used in the mix.	17	



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-PL-34	Providing & Fixing bird wired mesh/wired fabric (12.5mm x 24 SWG) in strips of 200 mm width or as required over junctions of concrete & brick / block masonry or any other specified location at all heights including minimum 200mm overlap at all joints / junction prior to plastering, drilling, nailing etc. complete as directed By Engineer In Charge.	Sqm	248	
R2-CS-PL-35	Extra for providing and mixing polypropylene fibers in mortar of internal and external plaster. The dose of 6mm long fibers shall be 125gms per 50 kg of cement bag or as per the manufactures specifications etc complete as directed by Engineer In Charge	Kg	65	
R2-CS-PL-36	Providing flush pointing to block/brick masonry work at all heights and locations in cement mortar 1:2, including raking of joints upto the depth of 15mm, finishing, curing, cleaning the surface etc. complete as directed by Engineer In Charge.	Sqm	194	
R2-CS-PL-37	Providing raised and cut pointing to block/brick masonry work at all heights and locations in cement mortar 1:2, including raking of joints upto the depth of 15mm, finishing, curing, cleaning the surface etc. complete as directed by Engineer In Charge.	Sqm	296	**
R2-CS-PL-38	Providing flush pointing to any kind of stone masonry work at all heights and locations in cement mortar 1:2 as specified below, including raking of joints upto the depth of 20mm, finishing, curing, cleaning the surface etc. complete as directed by Engineer In Charge.			**
R2-CS-PL-38-a	In Cement mortar 1:1	Sqm	248	
R2-CS-PL-38-b	In cement mortar 1:2	Sqm	244	
R2-CS-PL-39	Providing raised and cut pointing to any kind of stone masonry work at all heights and locations in cement mortar 1:2, including raking of joints upto the depth of 20mm, finishing, curing, cleaning the surface etc. complete as directed by Engineer In Charge.	Sqm	378	**
R2-CS-PL-40	Providing tuck pointing to any kind of stone masonry work at all heights and locations in cement mortar 1:1, including, removing the old pointing, raking of joints upto the depth of 20mm, finishing, curing, cleaning the surface etc. complete as directed by Engineer In Charge.	Sqm	261	**
R2-CS-PL-41	Providing flush pointing or Cement pointing flush to tandoor or shahabad stone or bluestone pavement in cement mortar 1:2 etc. complete.including raking of joints , finishing, curing, cleaning the surface etc. complete as directed by Engineer In Charge.	Sqm	76	



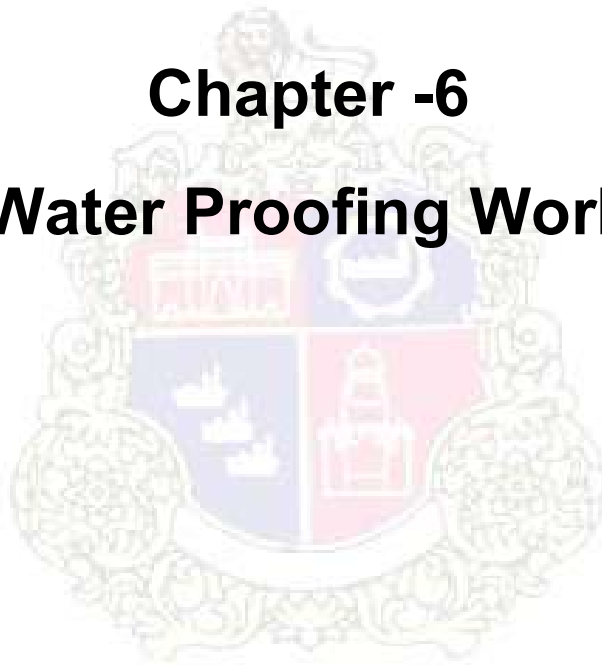
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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-PL-42	Providing and applying 12 mm thick internal plaster in cement mortar 1:4 with white cementitious wall putty (Birla white or equivalent) finish at all heights and locations for concrete surfaces including hacking of concrete surface, watering, finishing, curing, scaffolding etc. complete.	Sqm	349	



Chapter -6

Water Proofing Work



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-WP	WATERPROOFING WORKS		
R2-CS-WP-1	<p>Providing and laying integral cement based treatment for water proofing on horizontal surface at all depth below ground level for under ground structures as directed by Engineer-in-Charge and consisting of : i) 1st layer of 22 mm to 25 mm thick approved and specified rough stone slab over a 25 mm thick base of cement mortar 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound conforming to IS:2645 in the recommended proportion over the leveling course (leveling course to be paid separately). Joints sealed and grouted with cement slurry mixed with water proofing compound. ii) 2nd layer of 25 mm thick cement mortar 1:3 (1 cement: 3 coarse sand) mixed with water proofing compound in recommended proportions. iii) Finishing top with stone aggregate of 10 mm to 12 mm nominal size spreading @ 8 cu dm/sqm thoroughly embedded in the 2nd layer.</p> <p>-Using rough kota stone of size 550 mm x 850 mm</p>	Sqm	1240
R2-CS-WP-2	<p>Providing and laying integral cement based treatment for water proofing on the vertical surface by fixing specified stone slab 22 mm to 25 mm thick with cement slurry mixed with water proofing compound conforming to IS:2645 in recommended proportions with a gap of 20 mm (minimum) between stone slabs and the receiving surfaces and filling the gaps with neat cement slurry mixed with water proofing compound and finishing the exterior of stone slab with cement mortar 1:3 (1 cement : 3 coarse sand) 20 mm thick with neat cement punning mixed with water proofing compound in recommended proportion complete at all levels and as directed by Engineer-in-charge :</p> <p>-Using rough Kota stone of size 550 mm x 850 mm</p>	Sqm	1448
R2-CS-WP-3	<p>Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of :</p> <p>(i) 1st course of applying cement slurry @ 4.4 kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface.</p> <p>(ii) 2nd course of 20 mm cement plaster 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface.</p> <p>(iii) 3rd course of applying blown or residual bitumen applied hot at 1.7 kg. per sqm of area.</p> <p>(iv) 4th course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 kg/sqm).</p>	Sqm	994
R2-CS-WP-4	Providing and Placing in position suitable PVC water stops conforming to IS:12200 for construction/ expansion joints between two RCC members and fixed to the reinforcement with binding wire before		
R2-CS-WP-4-a	Serrated with central bulb (225 mm wide, 8-11 mm thick)	Rmt	551
R2-CS-WP-4-b	Dumb bell with central bulb (180 mm wide, 8 mm thick)	Rmt	943
R2-CS-WP-4-c	Kickers (320 mm wide, 5 mm thick)	Rmt	885



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-WP-5	<p>Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations: a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment. b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge. d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep. e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineer-in-Charge :</p> <p>With average thickness of 120 mm and minimum,thickness at khurra</p>	Sqm	1051
R2-CS-WP-6	<p>Providing and laying four courses water proofing treatment with bitumen felt over roofs consisting of first and third courses of blown bitumen 85/25 or 90/15 conforming to IS : 702 applied hot @ 1.45 Kg per square metre of area for each course, second course of roofing felt type 3 grade-I (hessian based self finished bitumen felt) and fourth and final course of stone grit 6 mm and down size or peasized gravel spread at 6 cubic diameter per square metre including preparation of surface but excluding grading complete with Bitumen felt (hessian base) type 3 grade I conforming to IS : 1322</p>	Sqm	356
R2-CS-WP-7	<p>Providing and laying six courses water proofing treatment with bitumen felt over roofs consisting of first, third and fifth course of blown bitumen 85/25 or 90/15 conforming to IS : 702 applied hot @ 1.45, 1.20 and 1.45 Kg per square metre of area respectively, second and fourth courses of roofing felt type 3 grade I conforming to IS : 1322 (Hessian based self finished bitumen felt) conforming to IS : 1322 and sixth and final course of stone grit 6 mm and down size or pea sized gravel spread at 6 cubic dm per sqm including preparation of surface but excluding grading, complete.</p>	Sqm	574

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-WP-8	Providing and laying six courses water proofing treatment with bitumen felt over roofs consisting of first, third and fifth courses of blown or / and residual bitumen applied hot at 1.45, 1.20 and 1.70 kg per square metre of area respectively, second and fourth courses of roofing felt type 2 grade I (fibre base self finished bitumen felt) six and final courses of stone grit 6 mm and down size or pea sized gravel spread at 6cu.dm per sqm including preparation of surface, excluding grading, compete.	Sqm	650
R2-CS-WP-9	Providing and laying six courses water proofing treatment with bitumen felt over roofs consisting of first, third and fifth courses of blow or/ and residual bitumen applied hot at 1.45, 1.20 and 1.70 kg per square metre of area respectively, second and fourth courses of roofing felt type 2 grade II (glass fibre base self finished bitumen felt) and sixth and final course of stone grit 6 mm and down size or pea sized gravel spread at 6 cubic dm per sqm including preparation of surface but excluding grading, complete	Sqm	671
R2-CS-WP-10	Supplying and applying bituminous solution primer conforming to IS 3384 on roof and or wall surface at 0.24 litre per sqm.	Sqm	60
R2-CS-WP-11	Grading roof and toilet for water proofing treatment above slab with		
R2-CS-WP-11-a	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	Cum	6186
R2-CS-WP-11-b	Cement mortar 1:3 (1 cement : 3 coarse sand)	Cum	12504
R2-CS-WP-11-c	Cement mortar 1:4 (1cement : 4 coarse sand)	Cum	11146
R2-CS-WP-12	Providing and laying in situ seven course water proofing treatment with APP (Atactic poly-propylene) modified Polymeric memberane over roof consisting of first coat of bitumen primer @ 0.40 Kg per sqm, 2nd, 4th & 6th courses of bonding material @ 1.20 Kg/sqm, which shall consist of blown type bitumen of grade 85/25 conforming to IS : 702, 3rd and 5th layers of roofing membrane APP modified Polymeric membrane 1.5 mm thick of 2.25 Kg/sqm weight consisting of five layers prefabricated with centre core as 20 micron HMHDPE film sandwiched on both sides with polymeric mix and the polymeric mix is protected on both side with 20 micron HMHDPE film. 7th, the top most layer shall be finished with brick bats of class designation 10 grouted with cement mortar 1:3 (1cement : 3 fine sand) mixed with 2% integral water proofing compound by weight of cement over a 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat (item of laying brick tiles shall be paid for separately).	Sqm	712

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-WP-13	Providing and laying in situ five course water proofing treatment with APP (Atactic Polypropylene) modified Polymeric memberane over roof consisting of first coat of bitumen primer @ 0.40Kg per sqm, 2nd & 4th courses of bonding material @ 1.20 kg/sqm, which shall consist of blown type bitumen of grade 85/25 conforming to IS : 702, 3rd layer of roofing membrane APP modified Polymeric membrane 2.0 mm thick of 3.00 Kg/sqm weight consisting of five layers prefabricated with centre core as 100 micron HMHDPE film sandwiched on both sides with polymeric mix and the polymeric mix is protected on both side with 20 micron HMHDPE film. 5th, the top most layer shall be finished with brick tiles of class designation 10 grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% integral water proofing compound by weight of cement over a 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat (item of laying brick bats shall be paid for separately).	Sqm	485
R2-CS-WP-14	Providing and laying in situ seven course water proofing treatment with APP (Atactic Polypropylene) modified Polymeric memberane over roof consisting of first coat of bitumen primer @ 0.40 Kg per sqm, 2nd, 4th & 6th courses of bonding material @ 1.20 kg/sqm, which shall consist of blown type bitumen of grade 85/25 conforming to IS : 702, 3rd and 5th layers of roofing membrane APP modified Polymeric membrane 2.0 mm thick of 3.00 Kg/sqm weight consisting of five layers prefabricated with centre core as 100 micron HMHDPE film sandwiched on both sides with polymeric mix and the polymeric mix is protected on both side with 20 micron HMHDPE film. 7th, the top most layer shall be finished with brick bats of class designation 10 grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% integral water proofing compound by weight of cement over a 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat (item of laying brick tiles shall be paid for separately).	Sqm	770
R2-CS-WP-15	Providing and fixing APP (Atactic Polypropylene Polymer) modified prefabricated five layer 2 mm thick water proofing membrance, black finished reinforced with glass fibre matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrance manufacture of density at 25°C, 0.87 - 0.89 kg/ litre and viscosity 70 - 160 cps. Over the primer coat the layer of membrane shall be laid using Butane torch and sealing all joints etc., and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 350/300 N/ 5 cm. Tear strength in longitudinal and transverse direction as 60/80N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacture of membrane. 22.18.1 2mm (for corrugated roof sheets)	Sqm	400



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-WP-16	Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer, 3 mm thick water proofing membrane, black finished reinforced with glass fibre matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufactured of density at 25°C, 0.87 - 0.89 kg/litre and viscosity 70 - 160 cps. Over the primer coat the layer of membrane shall be laid using butane torch and sealing all joints etc., and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 350/300 N/5 cm. Tear strength in longitudinal and transverse direction as 60/80N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto - 2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane :	Sqm	471
R2-CS-WP-17	Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer 3 mm thick water proofing membrane, black finished reinforced with non-woven polyester matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufacture of density at 25°C, 0.87-0.89 kg/ litre and viscosity 70-160 cps. Over the primer coat the layer of membrane shall be laid using Butane Torch and sealing all joints etc, and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 650/ 450N/5cm. Tear strength in longitudinal and transverse direction as 300/250N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane 22.20.1 3 mm thick	Sqm	486
R2-CS-WP-18	Extra for covering top of membrane with Geotextile, 120 gsm non woven, 100% polyester of thickness 1 to 1.25 mm bonded to the membrane with intermittent touch by heating the membrane by Butane Torch as per manufactures recommendation	Sqm	89
R2-CS-WP-19	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5mm nominal size) including water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification	Sqm	139
R2-CS-WP-20	Providing and laying damp-proof course 50mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5mm nominal size) including water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification.	Sqm	160
R2-CS-WP-21	Applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	Sqm	137

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-WP-22	Providing and filling AAC bats (of size 40-60 mm) with cement mortar mixed in the ratio 1:3:6 (1 cement : 3 coarse sand : 6 block bats) including mixing of approved water proofing compound in recommended proportion for W.C., bath and kitchen. The laid brick bat mix shall be well rammed and compacted as required. Further surfaces shall be screeded with cement concrete mix 1:1.5:3 (1 cement : 1.5 coarse sand : 3 stone grit of size 6 mm and below by volume) admixed with approved integral water proofing compound in recommended proportion, laid to an average thickness of 25mm and finished smooth or ready to receive finish material as specified. Care shall be taken prior to filling all pipes passing through sunk portion such that the pipes are pressure tested by maintaining pressure for 24 hours and junctions of pipes passing through walls, slabs are well grouted and sealed. This shall be tested by ponding water for required depth and maintaining for 7 days. (Rate includes cost of brick bats, cement mortar, top screed, labour charges for working at all levels, leads and heights). For payment the area of sunken slab and the depth of filling including the thickness of screed shall be measured.	Cum	13300
R2-CS-WP-23	Waterproofing the terrace slabs with average 100 mm thick, brick bats laid in cement mortar bed 1:4 filled with mortar 1:4 of total thickness 100 mm, laid to slope (1:100) with vata 15 cm, at the junction of walls and IPS flooring (1:2:3) 40 mm thick with admixture, of approved water proofing compound, as per manufacturers specification laid after grouting the slab, finishing curing etc. complete as directed and specified. (Horizontal measurement clear between walls will be paid for).	Sqm	992
R2-CS-WP-24	Do with broken China mosaic flooring instead of IPS set in cement mortar (1:4) 40 mm thick	Sqm	1187
R2-CS-WP-25	Providing and installing crystalline waterproofing treatment to inside surfaces of the water retaining structures	Sqm	2537
	VERTICAL SURFACES :		
	a) Treatment shall consist of preparation of surfaces including 'V' grooves at junctions and joints, pressure grouting the same and curing for specified period.		
	b) Applying two coats of approved crystalline waterproofing compound at specified intervals as recommended by manufacturer and as directed by Engineer-in charge and allowed to cure.		
	c) Extra for Plastering of walls and finishing smooth with 15 mm thick cement mortar 1:4 (1 cement : 4 fine sand) admixed with approved waterproofing compound in recommended proportions.		
	HORIZONTAL SURFACES :		
	d) Extra for Laying of 30 mm average thick cement concrete of mix 1:2:4 (1 cement : 2 coarse sand : 4 coarse aggregate of 12.5mm nominal size) admixed with approved waterproofing compound in recommended proportions, on floors to required gradient, including rounding of corners / junctions with walls and floors etc., and finished smooth and cured.		



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
	Tank shall be tested by filling with water for required depth and maintaining it for 72 hrs. for checking the leakages. The rate includes giving 10 year guarantee for waterproofing on a Rs.100/- stamp paper in approved proforma.		
R2-CS-WP-26	Providing & applying membrane waterproofing treatment to podium / landscape area consisting of following operations:	Sqm	2301
	a) Cementious based chemical waterproofing coating (two or more coats) of approved make, including preparation of surfaces to receive chemicals, treatment and curing.		
	b) Light weight concrete of density 450 kg/cum (for non traffic area) and of minimum 75 mm thickness at draining point and rest area sloped to drain water as detailed in drawing.		
	c) Slope shall be developed with required density mix to suite the type of traffic expected.		
	d) 3.0 mm thick APP Polymer modified polyester black finished reinforced with glass fibre matt sheet, laid over a coat of bitumen primer having density 0.87-0.89 kg/litre and Viscosity 70- 160cps at 25 degrees C, @ 0.4 litre / sqm. Over the primer coat the layer of membrane shall be laid using Butane Torch and sealing all joints etc., and preparing the surface to receive top protective coat, complete.		
	e) Top protective layer comprising of 30 mm thick water proof screed in 1:4 cement mortar mix (1 Cement :4 Coarse sand) admixed with approved water proofing compound as specified by the manufacturer or as directed by E-I-C, spread over entire terrace area and finished to receive Architectural finish.		
	f) The vertical vertical surfaces shall be plastered with 12 mm thick cement mortar 1:4 (1 Cement :4 Fine sand).		
	g) Work shall include adding Polypropylene mesh fibers with Microban to mortar in proportion recommended by the manufacturer with use of approved products and work carried out as per manufacturer's specifications and directions of Engineer-in charge. The rate shall include cost of all materials specified above, preparation of the surface, its application, testing by ponding of water for 72 hours etc. and labour charges for working at all leads and heights. The rate includes giving guarantee for 10 years on Rs.100/- Stamp paper in approved proforma .		
R2-CS-WP-27-a	Waterproofing the terrace slab and staircase roof slab with average 100 mm thick concrete of broken brick bats and cement mortar (1:4) in the proportion of 2 parts of brick bats and 1 part of mortar, laid in proper slope (1:100) well rammed, watered and consolidated with vata 15 cm at junction of walls and Indian patent stone flooring 1:2:3 (12.5 mm chips) 40 mm thick and with admixture of approved water proofing compound as per manufacturers specifications laid after grouting the surface of brickbat coba with neat cement slurry in alternate suitable squares to required slope as directed including filling in joints with bitumen and cleaning the slab top of all dust and loose material; tamping, finishing and curing complete as directed and specified. (Horizontal measurements clear between walls will be paid for).	Sqm	1418
R2-	NOTE: (1) Expansion joints to be provided for the full depth. (2) Expansion joints to be so provided that the area of each bay does not exceed 10 Sqm		
R2-CS-WP-27-b	Do -- 100 mm thick I.P.S. flooring without brick bat concrete.	Sqm	1026



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-WP-28-a	Waterproofing the slab of terrace, bathrooms sanitary blocks etc. with a layer not less than 1.5 mm thick of heated bitumen 20/30 penetration applied in 2 or 3 coats, after thoroughly brushing and cleaning the slab including painting the vertical portion of the side walls upto the level of the finished terrace or floor surface.	Sqm	313
R2-CS-WP-28-b	Do -- with heated tar and pitch.	Sqm	250
R2-CS-WP-29	Providing waterproofing treatment to terrace slab and laying flooring of broken marble mosaic tiles of plain finish of required size laid on 38mm to 50 mm thick 1:2 Cement Mortar bedding after grouting with neat cement 100 mm thick (average) bedding of concrete made of 2 parts of broken brick bats to 1 part of cement mortar laid to proper gradient 1:100 and 150 mm half round vata in 1:2:4 c.c. with necessary plaster in 1:3 C.M. at the junction with walls and the required number of expansion joint as per the directions etc. complete. The rate also includes watering, tamping, curing and cleaning the top of all dust, loose materials, stains, and machine polished etc. complete as directed. (Horizontal measurements clear between walls will be paid for). Expansion joint should be provided as	Sqm	1251
	Note : The layer of 100 mm thick average brick bat coba shall be laid in required slopes in proportion of two parts of broken bricks bats and one part of cement mortar 1:5 on slab. Over the brick bat coba, 30 mm to 38 mm thick lime mortar in proportion of 1 part of lime to 2 parts of sand shall be laid as bedding for fixing broken marble mosaic		
R2-CS-WP-30	Providing water proofing treatment to New terrace after cleaning the surface by giving „INJECTIONS" to the terrace slab wherever required with necessary water proofing compound and cement solution as per specifications so as to fill up all the inherent holes cavities, voids, honeycomb etc. making the whole structure consistent and homogeneous resistant to water leakage seepage, dampness and moisture etc. Brickbat waterproofing coba in 1:5 C.S. mortar as per specifications shall be laid over R.C.C.Slab with necessary gradient for easy flow of rain water. This treatment shall continue along the inner side of parapet of other adjoining wall upto height of about 30cm. in the shape of round vata. Finally the top surface shall be covered with joint less waterproofing plaster 1: 4 C.S. 12 mm to 15 mm in thickness as per specifications of specialized waterproofing Co. finished smooth with trowel in cement colour marked in 30 cm x 30 cm false squares. The average thickness of complete treatment shall be 100 mm. The surface shall be rendered hard and tough to withstand the weather, normal domestic use. The rate is inclusive of the cost of watering, tamping, curing and cleaning the top of all dust, loose materials, stains etc. complete as directed. Debris shall become contractor's property. The finished terrace surface shall be ponded for a period of 10 days to test for any leakage without any extra cost. Clear horizontal measurement between walls will be paid for actual	Sqm	1205
R2-CS-WP-31	Extra for providing additional thickness of brickbats over 100 mm in 1:5 c.s. either due to location of rain water pipes or due to increase in the travel length of flow of rain water or brick bats required in the sunk portion of baths, W.C.s nahani etc. The rate includes for fixing brickbats in C.M., with waterproofing compound as per specification as directed.	Cum	8575



Buildings Schedule/ Common Schedule 2018
Water-proofing Works

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-WP-32-a	Providing the waterproofing treatment as per item no CS-WP-30 but for existing terrace after removing the old brick bat coba, tiling work etc. completely so as to expose the R.C.C. slab surface and cleansing the same. The rate is inclusive of removing the debris from actual place of work to the ground and from there the same will have to be carted away immediately the debris will become contractors property and no extra payment will be made for removing and carting. [Injection treatment shall be given as per item no. CS-WP-45	Sqm	1262
R2-CS-WP-32-b	Providing waterproofing treatment as per Item No.CS-WP-32-a with Broken China mosaic flooring as per design.	Sqm	1472
R2-CS-WP-33	Providing waterproofing treatment from outside to basement lift-pits and other under ground structures during construction. The treatment shall be started after the P.C.C. bedding for the base slab or raft slab is laid. On the P.C.C. bedding a waterproofing layer based on cement with rough shahabad stones of 20 to 25 mm thick well pointed in the joints with 1:3 C.S. 40 mm thick for floors and 20 mm thick for sides with cement float and water proofing compound as per specifications shall be laid. Then the surface shall be superimposed by regular R.C.C. raft or base slab as per design. After completion of the raft / base slab and side walls the treatment of waterproofing layer shall be continued along the outer surface of the walls upto a height of 30 cm above the adjacent ground level. (The excavation of the side around the walls shall be filled with soft earth by the contractor). The total thickness of the treatment shall be 65 mm to 75 mm for floors and 32 mm to 38 mm for walls.	Sqm	1336
	Note: (a) Where no space is available on the outer side of the walls, the following procedure shall be adopted :- Brick masonry walls of adequate strength shall be provided by the contractors at the outside level of the walls of basement. The treatment shall then be done as described above for flooring and on the inner face of the brick masonry upto a height of 30 cm above adjoining ground level. The surface shall then be superimposed by regular R.C.C.raft slab and walls. The thickness of the treatment for floor and walls shall be same as stated above.		
	(b) As regards pile caps , footings, The treatment shall be done by providing plain cement concrete bedding in the bottom by the contractor. Over this, brick masonry of adequate thickness shall be provided by the contractor around pile caps, footings, columns and plinth beams upto the top level of the P.C.C. bedding of the main floor. The waterproofing treatment shall then be provided over the P.C.C. bedding of the floor and the inner faces of the brick masonry walls. The treatment shall be turned over the top of brick masonry wall and continued over the P.C.C. of the main basement floor. Other details shall remain as before.		
	(c) The payment for brick masonry, concrete walls and their foundation constructed to receive the waterproofing treatment will be made separately under the respective items of the tender.		
	(d) The payment for waterproofing treatment shall be on the basis of the actual area of the treatment.		



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-WP-34	Providing water proofing treatment to existing RCC overhead tank, basements, lift-pits and other underground structures. The treatment shall be done by giving INJECTIONS wherever necessary with waterproofing compound and cement solution as per tenderer's specifications into the floor & walls upto the full height of structures. All inherent holes, cavities, voids & honeycomb shall be filled up to make the structure consistent, homogenous resistant to water breakages, seepage, dampness and moisture etc. The floor shall then be treated with waterproofing metal coba of 30 mm to 35 mm thick in 1:4 C.S. mortar and walls with first coat of waterproofing plaster as per tenderer's specifications. Finally both floor and walls shall be finished smooth with jointless waterproofing plaster 1:3 C.S. 12 mm to 15 mm thick with water proofing materials as per tenderer's specifications in cement or finished rough to receive tile pavement or dado. The thickness of the treatment shall not be less than 50 mm to 60 mm for floors and 25 mm for walls. (The actual area of the treatment will be measured).	Sqm	1343
R2-CS-WP-35	Extra over the rate for item No.CS-WP-34 for removing the old plaster and floor finishing completely so as to expose the original surface to receive the treatment including carting away debris etc. complete.	Sqm	118
R2-CS-WP-36	Extra rate for removing brick bat coba more than (4") 100 mm thick including carting away the same and from the actual place of work to any other site and making the site clear as directed. The debris will become contractor's property.	Cum	1209
R2-CS-WP-37	Providing waterproofing treatment through specialized agencies as per their specifications to the flooring of water closets, bathrooms, kitchen, nahanies, washing places, sanitary blocks etc. by giving INJECTIONS with cement solution with water proofing compound into the floor slab so as to make it consistent, homogeneous and impervious against leakage, seepage etc. The sunk portion shall then be covered with brickbat waterproof coba in 1:5 c.s. of required thickness with necessary gradient for easy flow of water. Finally the floor shall be covered with joint less waterproof cement plaster in 1:3 c.s. 12 mm to 15 mm thick finished rough for receiving tiles. The average thickness of complete treatment shall not be less than 100 mm. The soil pan area will not be deducted. (After completion of work leakage test shall be carried out after impounding the water for 7 days without any extra cost. The actual treated area will be measured and paid for).	Sqm	512
R2-CS-WP-38-a	Providing waterproofing treatment through specialized agencies to the dado portion of the R.C.C. side walls upto 1.5 m height from floor area of water closets, bath-rooms, kitchens, washing places, sanitary blocks etc. by giving „INJECTIONS" treatment with waterproofing compound and cement solution. The walls will then be plastered with waterproof cement plaster in 1:4 c.s. 12 mm to 15 mm thk. Finally the walls shall be covered with jointless waterproof plaster in 1:3 c.s. 12 to 15 mm thick finished rough for receiving tiles. The average thickness of complete treatment shall not be less than 25 mm. (The actual treated area will be measured and paid for).	Sqm	793
R2-CS-WP-38-b	Do- -Do- brickwall without injection treatment.	Sqm	464



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-WP-39	Providing the waterproofing treatment as per item no.CS-WP-38 but to the flooring of existing water closets, bathrooms, kitchen, nahanies, washing places, sanitary blocks etc. after removing existing flooring and brickbat coba etc. (The soil pan area will not be deducted. After completion of work leakage test shall be carried out after impounding the water for 7 days without any extra cost. The actual area treated including soil pan area will be measured and paid for).	Sqm	1173
R2-CS-WP-40	Providing waterproofing treatment through specialized agencies as per item no. CS-WP-39 but to the dado portion of existing water closets, bathroom, kitchens, wash places, sanitary blocks etc. by removing existing plaster and tiles etc. (The actual area treated will be measured and paid for).Take rebate of Rs.100/- Sqm if existing wall is brickwall	Sqm	911
R2-CS-WP-41	Providing Waterproofing treatment as per item No. CS-WP-40 to the brickwall of existing water Closets, bathroom, kitchens, washing places, sanitary blocks etc. by removing existing plaster and tiles etc.	Sqm	1672
R2-CS-WP-42	Providing waterproofing treatment to the side walls (brick masonry of rubble) of basement with single layer of rough Shahabad stone about 12 mm to 18 mm in thickness well pointed in the joints with cement paste and waterproof compound as per tender's specifications including grouting the portion behind the Shahabad tiles and finishing the surface of Shahabad tile with cement plaster medium smooth c.s. 1:3 about 10 to 12 mm. thickness. The total thickness of the treatment should be about 25 mm to 38 mm. (The actual area treated will be measured and paid for)	Sqm	1179
R2-CS-WP-43	Providing waterproofing treatment to existing R.C.C. walls or columns of basement by giving „ INJECTIONS“ wherever necessary with waterproofing compound and cement solution as per tender's specifications into the R.C.C. walls or columns upto 30 cm height above ground level structures after removing existing plaster / finish etc complete. All inherent holes, cavities, voids and honey combs shall be filled upto make the structure consistent, homogenous, resistant to water leakage, seepage dampness and moisture etc. The columns or walls shall then be treated with first coat of waterproof plaster in 1:3 C.S. plaster 12 to 15 mm thick as per tender's specifications. Finally the walls or columns shall be finished smooth with jointless waterproof plaster in 1:3 C.S. plaster medium smooth 12 to 15mm thick with waterproofing materials as per tender's specifications in cement colour. The thickness of the treatment shall not be less than 25 mm. (The actual area treated will be measured	Sqm	2519
R2-CS-WP-44	Water proofing treatment to the chajja after removing old plaster and roughening the surface and finishing the top surface with 20mm thk. 1:2 c.s. plaster with approved water proofing compounds and neat cement finish, the rate also includes for 1:3 c.s. facia of chajja to match the new surface(actual area treated will be paid).	Sqm	1841
R2-CS-WP-45	Providing waterproofing treatment to the existing terrace/top slab at any floor level (including slab portion beneath overhead water tank) by		
	1. Removing the existing top layer of the terrace/top slab upto the top of existing brick bat coba without causing any damage to any of the structural member and cleaning the same of any loose material etc. complete as directed.		



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
	2. Dividing the total slab area by marking grid at a spacing of 1.2m. c/c in either direction and form square panels of the size 1.2 m. x 1.2 m. and drilling the holes (by using machine) 37 mm. to 50 mm. dia upto required depth in the R.C.C. slab in staggered form at the junction of the above marked grid as specified and directed by an Engineer in charge.		
	3. Filling the holes only at bottom portion with 10 mm size metal, inserting the grouting nozzle in the drilled hole for grouting and making the hole watertight by filling the gap between nozzle and the hole with cement mortar 1:1 or any other suitable material as a sealant.		
	4. Injecting the cement grout admixed with waterproofing compound (one part of cement to 2 parts of water is recommended; initially richer mix which is possible but for further grouting leaner mix is required for filling smaller voids, mix should not be leaner than 1 cement:5 water) with required pressure (as per site conditions) by grout pump so as to seal all inherent holes, honey combs, cavities and voids and making the whole structures consistent and homogeneous solid mass resistant to seepage, dampness, moisture and leakage of water, allowing the grout to overflow from the vent holes (i.e. holes at diagonally opposite corners), to ensure no pockets left.		
	5. Taking holes one by one in the staggered form for grouting purposes and in each case holes at the diagonally opposite end will be acting as vent holes.		
	6. Filling the entire area by 15 cm. deep water for ponding test. The ponding test shall be checked after 7 days by the officer of the rank not below Executive Engineer along with Zonal Executive Engineer to ensure that there is no leakage found. The certificate to this effect shall be given by the concerned engineer.		
	7. Repeating step 4 to 6 until the entire structure is found completely waterproof, if any leakage is found		
	8. Laying the flooring of broken China-mosaic (broken pieces of China glazed tiles) of approved colour set in 25 mm. average bed of C.M. 1:3 with waterproofing compound to correct level and slope (1:100) well compacted and finished; such that minimum coverage of China mosaic chips is about 90% of the total area of slab. The above treatment shall continue along the inner side of parapet or the adjoining wall upto 30 cm. high as per the above specifications regarding cement mortar in shape of round vata with necessary groove etc. complete.		
	9. Curing the flooring continuously for minimum ten days so as to render the surface hard and tough to withstand weather and normal domestic use.		
	10. Cleaning the slab and removing and carting the debris;cleaning the top of all dust, loose material,stains etc. complete as directed.	Sqm	1134
	NOTES : 1. No extra payment will be made for brickbat concrete if any, required to fill up the voids which are developed in the process of removing top layer. If there are any such voids; the same shall be filled up with brick bat concrete so that levelled surface is at a correct level and slope is available for laying China mosaic flooring.		



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
	2. The finished terrace surface shall be paid for the actual area treated including cement vata.		
R2-CS-WP-46	Providing waterproofing treatment to the part portion of the existing (old building) terrace/ top slab at any floor level including slab portion beneath overhead water tank by:		
	1. Dividing the part portion of the existing slab area taken for grouting by marking grid at a spacing of 1.2 m. c/c in either direction and form square panels of the size 1.2 m. x 1.2 m. and drilling the holes (by using machine) 37 mm. to 50 mm. dia upto required depth in the R.C.C. slab in staggered form at the junction of the above marked grid as specified and directed by an Engineer in charge.		
	2. Filling the holes only at bottom portion with 10 mm size metal, inserting the grouting nozzle in the drilled hole for grouting and making the hole watertight by filling the gap between nozzle and the hole with cement mortar 1:1 or any other suitable material as a sealant.		
	3. Injecting the cement grout admixed with waterproofing compound (one part of cement to 2 parts of water is recommended), by giving injection under pressure. This proportion may be changed to leaner or richer mix as per requirement at site and the process of grouting as the capillaries present in the slab get filled by cement grout then for further grouting leaner mix (not less than 1:5 may be required for further grouting) admixed with w/p compound with required pressure not less than 0.3 kg/sq.cm by grout pump so as to seal all inherent holes, honey combs, cavities and voids and making the whole structures consistent and homogeneous solid mass resistant to seepage, dampness, moisture. When the portion of the slab covered by a hole is completely filled up with grout, allow sufficient quantity of grout to overflow from the vent holes (i.e. holes at diagonally opposite corners will act as vent hole), to ensure no air pockets left.		
	4. Taking holes one by one in the staggered form for grouting purposes and in each case holes at the diagonally opposite end will be acting as vent holes.		
	5. Filling the entire area by 15 cm. deep water for ponding test. The ponding test shall be checked after 7 days by the officer of the rank not below Executive Engineer along with Zonal Executive Engineer to ensure that there is no leakage found. The certificate to this effect shall be given by the concerned engineer.		
	6. Repeating step 2 to 5 until the entire structure is found completely waterproof.		
	7. Sealing the holes with suitable type of sealant material and curing the slab for 10 days and cleaned. The rate includes watering, tapping curing, and cleaning the top of all dust, loose materials stains etc. complete as directed.	Sqm	307
	NOTE : The part portion of terrace slab shall be paid for actual area treated.		



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-WP-47	<p>Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying :</p> <p>a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. This layer will be allowed to air cure for 4 hours.</p> <p>b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.</p>	Sqm	349
R2-CS-WP-48	<p>Providing and laying water proofing treatment on roofs slabs by applying cement slurry mixed with water proofing cement compound consisting of applying:</p> <p>a) after surface preparation, first layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm.</p> <p>b) laying second layer of Fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less than 10 cm.</p> <p>c) third layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with water proofing cement compound @ 0.670 kg/sqm and coarse sand @ 1.289 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30 cm on parapet wall and tucked into groove in parapet all around. d) fourth and final layer of brick bat with cement mortar(which will be paid for separately). For the purpose of measurement the entire treated surface will be measured.</p>	Sqm	426

Chapter -7

Painting



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-PN	PAINTING WORKS			
	<p>Note:-</p> <p>1) Rates of all the items in painting section are inclusive of staging or scaffolding wherever necessary of any height for internal painting and upto 10m height from ground level for external painting. Refer separate item for additional external painting work above 10m from ground level.</p> <p>2) The manufacturer's representative should be present when the work of waterproof cement paint is being carried out and guide to the labour staff of the contractors as regards the proportion of the mix of paint and water and method of applying the paint etc. is concerned.</p> <p>3) The contractors must produce a certificate from the manufacturers that the work is carried out satisfactorily under the supervision of representative of the manufacturers and that requisite quality and quantity of cement paint as being actually used on the particular work and that the entire work has been carried out in a satisfactory and workmen like manner.</p>			
R2-CS-PN-1	Providing and applying three coats of White/colour wash to any surface with lime wash prepared from quick lime of best quality by adding blue/colour pigments and glue of approved colour, quality in required quantities at all height and locations as directed including scaffolding, cleaning and preparing surfaces for painting with broom, coir and sand paper if necessary or by any other approved means etc. complete as directed by Engineer-in-charge.	Sqm	46	
R2-CS-PN-2	Providing and applying first single coat of approved primer and two coats of dry distemper paint (water bound distemper) of an approved make and colour as per manufacturers specifications to any surface, at all height and locations as directed including scaffolding, cleaning and preparing surfaces for painting with broom, coir and sand paper if necessary or by any other approved means, etc. complete as directed by Engineer-in-charge.	Sqm	90	
R2-CS-PN-3	Providing and applying first single coat of approved primer and two coats of acrylic distemper (oil bound distemper) of an approved make and colour as per manufacturers specifications to any surface, at all height and locations as directed including scaffolding, cleaning and preparing surfaces for painting with broom by any approved means, etc. complete as directed by Engineer-in-charge.	Sqm	98	
R2-CS-PN-4	Providing and applying first single coat of approved primer and two coats of synthetic enamel paint/flat oil paint of an approved make and colour as per manufacturers specifications to surfaces specified below, at all height and locations as directed including scaffolding, cleaning and preparing surfaces for painting by any approved means etc. complete as directed by Engineer-in-charge.			
R2-CS-PN-4-a	For plastered wall surface	Sqm	153	
R2-CS-PN-4-b	For woodwork	Sqm	140	
R2-CS-PN-4-c	For steelwork	Sqm	139	



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-PN-5	Providing and applying first single coat of approved primer and two coats of acrylic plastic emulsion paint of an approved make and colour as per manufacturers specifications to any surface, at all height and locations as directed including scaffolding, cleaning and preparing surfaces for painting by any approved means etc. complete as directed by Engineer-in-charge.	Sqm	126	
R2-CS-PN-6	Providing and applying first single coat of approved primer and two coats of luster paint of an approved make and colour as per manufacturers specifications to any surface, at all height and locations as directed including scaffolding, cleaning and preparing surfaces for painting by any approved means etc. complete as directed by Engineer-in-charge.	Sqm	127	**
R2-CS-PN-7	Providing and applying single coat of an approved make primer for waterproof cement paint as per manufacturers specifications to the smooth surface, upto 10m height from ground level and at all locations as directed including preparing surfaces for painting by any approved means, scaffolding, cleaning and curing etc. complete as directed by Engineer-in-charge.	Sqm	55	
R2-CS-PN-8	Providing and applying first single coat of approved primer and two coats of waterproof cement paint of an approved make and colour as per manufacturers specifications to any surface, upto 10m height from ground level and at all locations as directed including preparing surfaces for painting by any approved means, scaffolding, cleaning and curing etc. complete as directed by Engineer-in-charge.	Sqm	180	
R2-CS-PN-9	Providing and applying two coats of waterproof cement paint of an approved make and colour as per manufacturers specifications to smooth sand faced or other surfaces, upto 10m height from ground level and at all locations as directed including preparing surfaces for painting by any approved means, scaffolding, cleaning and curing etc. complete as directed by Engineer-in-charge.	Sqm	125	
R2-CS-PN-10	Providing and applying first coat of approved Waterproof primer, and two coats of waterproof acrylic based textured exterior paint of an approved make and colour as per manufacturers specifications to textured sand faced or other surfaces, upto 10m height from ground level and at all locations as directed including preparing surfaces for painting by any approved means, scaffolding, cleaning and curing etc. complete as directed by Engineer-in-charge.	Sqm	203	**
R2-CS-PN-11	Providing and applying first coat of approved waterproof primer, one coat of waterproof acrylic based textured exterior paint of an approved make and colour as per manufacturers specifications to textured sand faced or other surfaces, upto 10m height from ground level and at all locations as directed including preparing surfaces for painting by any approved means, scaffolding, cleaning and curing etc. complete as directed by Engineer-in-charge.	Sqm	128	**



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-PN-12	Providing and applying first single coat of approved primer and two coats of anti-algal, anti-fungal, exterior paint as specified below of an approved make and colour as per manufacturers specifications to any surface, upto 10m height from ground level and at all locations as directed including preparing surfaces for painting by any approved means, scaffolding, cleaning and curing etc. complete as directed by Engineer-in-charge.			
R2-CS-PN-12-a	By using acrylic based exterior paint	Sqm	177	
R2-CS-PN-12-b	By using acrylic based exterior paint with silicone additives	Sqm	188	
R2-CS-PN-13	Extra over item no. CS-PN-1 and CS-PN-2 for preparing the old surface for white/colour wash or dry/water bound distemper including scrapping the old paint with wire brush, blades or sand papers upto original surface, filling in the cracks and loose patches etc. with C.M 1:3 etc. complete as directed.	Sqm	10	
R2-CS-PN-14	Extra over item no. CS-PN-3 to CS-PN-6 for preparing and finishing plastered wall surfaces / concrete surfaces, steel or wood surfaces in line and level for acrylic (oil bound) distemper/ synthetic enamel paint or plastic emulsion paint by scrapping/removing the old paint if any with wire brush or blades and rubbing, with sand papers as required, filling in cracks in cement mortar 1:3, applying the whole surface with mixture of whiting powder or plaster of paris and double boiled inseed oil of premium quality or second quality synthetic enamel paint, filling the cracks with premium quality putty or hard glue in case of woodwork, rubbing down and even up the surface by any approved means etc. complete as directed by Engineer-in-charge.	Sqm	15	
R2-CS-PN-15	Extra over item no. CS-PN-7 to CS-PN-12 on exterior painting work of height more than 10 m from ground level for additional height of 3m or part thereof.	Sqm	19	
R2-CS-PN-16	Lettering or numbering of 40 mm to 50mm height with paint specified below in any approved colour, style and pattern, including french polishing or synthetic enamel painting the back ground with three coats of approved colour etc. complete as directed by Engineer-in-charge. With synthetic enamel / oil paint other than golden colour or golden color	No	29	
R2-CS-PN-17	Lettering or numbering of 65 mm to 75mm height with synthetic enamel paint in any approved colour, style and pattern, including french polishing or synthetic enamel painting the back ground with three coats of approved colour etc. complete as directed by Engineer-in-charge.			
R2-CS-PN-17-a	With synthetic enamel / oil paint other than golden colour	No	36	
R2-CS-PN-17-b	With synthetic enamel / oil paint of golden colour	No	36	



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-PN-18	Providing and applying first single coat of approved primer and two coats of synthetic enamel paint/flat oil paint of an approved make and colour as per manufacturers specifications to the W.I / G.I. or M.S. pipes of electric, gas or roof rain water down takes and fittings etc. as specified below, at all height and locations as directed including scaffolding, scraping, cleaning old paint and preparing surfaces for painting by any approved means etc. complete as directed by Engineer-in-charge.			
R2-CS-PN-18-a	For pipe upto 25mm dia.	Rmt	14	
R2-CS-PN-18-b	For pipe upto 50mm dia.	Rmt	17	
R2-CS-PN-18-c	For pipe more than 50mm dia. and upto 75mm	Rmt	20	
R2-CS-PN-18-d	For pipe more than 75mm dia. and upto 100mm	Rmt	26	
R2-CS-PN-18-e	For pipe more than 100mm dia. and upto 150mm	Rmt	35	
R2-CS-PN-19	Providing and applying first single coat of approved primer and two coats of aluminum paint of an approved make as per manufacturers specifications to any surfaces, at all height and locations as directed including scaffolding, scraping, cleaning and removing old paint if any and preparing surfaces for painting by any approved means etc. complete as directed by Engineer-in-charge.	Sqm	98	
R2-CS-PN-20	Providing and applying first single coat of approved primer and two coats of rubber chlorinated paint of an approved make as per manufacturers specifications to any surfaces, at all height and locations as directed including scaffolding, scraping, cleaning and preparing surfaces for painting by any approved means etc. complete as directed by Engineer-in-charge.	Sqm	133	
R2-CS-PN-21	Providing and applying first single coat of approved primer and two coats of fire retarding paint of an approved make as per manufacturers specifications to any surfaces, at all height and locations as directed including scaffolding, scraping, cleaning and preparing surfaces for painting by any approved means etc. complete as directed by Engineer-in-charge.	Sqm	330	** ***, ,
R2-CS-PN-22	Providing and applying first single coat of approved primer and three coats of fire retarding paint of an approved make as per manufacturers specifications to any surfaces, at all height and locations as directed including scaffolding, scraping, cleaning and preparing surfaces for painting by any approved means etc. complete as directed by Engineer-in-charge.	Sqm	436	** ***, ,
R2-CS-PN-23	Providing and applying first single coat of approved primer and two coats of synthetic enamel paint/flat oil paint of an approved make and colour as per manufacturers specifications to the metal purlins not more the 150mm in height, at all height and locations as directed including removing the existing paint by burning, cleaning, preparing the surface for painting etc. complete as directed by Engineer-in-charge.	Rmt	78	

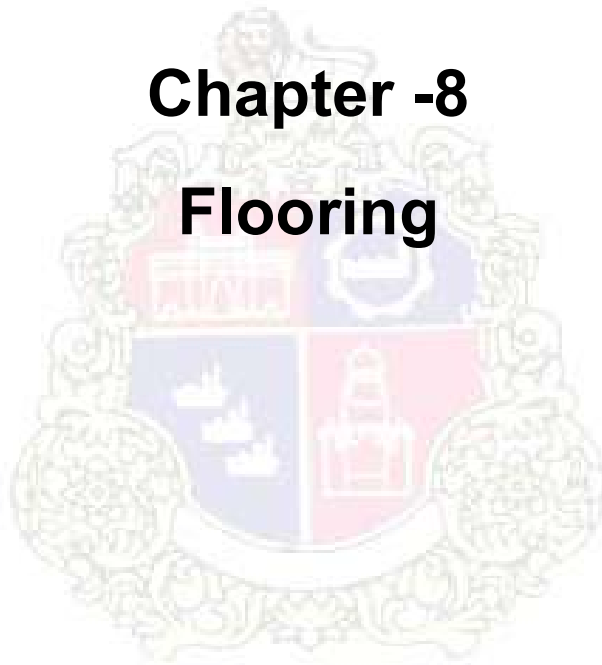


ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-PN-24	Providing and laying 2mm thick antifungal self levelling Epoxy flooring on concrete substrate including coving at floor wall junction & including necessary surface preparation using cleaning, dedusting, applying suitable primer including Aisle or zone marking in different colours etc. complete as per manufacturers specifications and as directed by Engineer In Charge.	Sqm	1,086	**
R2-CS-PN-25	Providing and applying antifungal self leveling 3mm EPU system including coving at floor wall junction, necessary surface preparation by cleaning and de-dusting. The System shall be executed in three stages, firstly by applying a solvent free epoxy primer which has a volumetric ratio of mixing @ 200 microns dft, then laying 1.8mm self leveling epoxy based screed and finally applying a solvent free EPU (epoxy-polyurethane), self leveling coating to yield a dft of 1000 microns. The EPU coating shall be a two component with volumetric ratio of mixing. No fillers shall be added at the site while laying the self leveling EPU including Aisle or zone marking in different colours etc. complete as per manufacturers specifications and as directed & approved by Engineer In-Charge.	Sqm	1,360	***



Chapter -8

Flooring



Buildings Schedule/ Common Schedule 2018
Flooring Works

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE
R2-CS-FL	FLOORING WORKS		
	Notes: 1) All the rates are include all necessary conveyance and delivery, handling, unloading, storing, fabrication, hoisting, scaffolding, lead, lift, all labour for finishing to required shape and size, setting, fitting and fixing in position, straight cutting and waste, return of package and other incidental operations.		
R2-CS-FL-01	Providing and laying polished natural stone as specified below (Machine cut) of an approved quality and size for paving /flooring in plain and/or diamond /approved pattern including cement mortar bedding of 25 mm thick in 1:4 proportion, cement float, machine cutting, dressing, leveling, jointing, filling the joints with neat cement slurry or with required pigment, machine polishing at site, curing, finishing, etc complete as directed by Engineer In Charge.		
R2-CS-FL-01-a	25 to 30 mm thk. Shahbad stone of size 0.6m x 0.6m	Sqm	1187
R2-CS-FL-01-b	25 to 30 mm thk. Tandur stone of size 0.45m x 0.6m	Sqm	1029
R2-CS-FL-01-c	25 to 30 mm thk. Kota stone of size 0.430m x0.56m (17"x22")	Sqm	1179
R2-CS-FL-01-d	18 mm thk. Green marble	Sqm	1728
R2-CS-FL-01-e	18 mm thk. White marble of superior quality and white cement float	Sqm	1848
R2-CS-FL-01-f	18 mm thk. White marble of medium quality and white cement float	Sqm	1757
R2-CS-FL-01-g	18 mm thk. White marble lower quality and white cement float	Sqm	1673
R2-CS-FL-01-h	18 mm thk. Jaisalmer Stone	Sqm	2019
R2-CS-FL-01-i	18 mm thk. Red /Pink marble	Sqm	1550
R2-CS-FL-01-j	18 mm thk. Lakha Red Granite tiles/slab	Sqm	3755
R2-CS-FL-01-k	18 mm thk. Ruby red, jet black, Hasan green Granite tiles/slab	Sqm	2275
R2-CS-FL-01-l	18 mm thk. Steel Gray Granite tiles/slab	Sqm	2275
R2-CS-FL-02	Providing and laying polished natural stone strips upto 100mm wide as specified below (Machine cut) 25-30 mm. thick of an approved quality and size for paving /flooring including cement mortar bedding of 25 mm thick in 1:4 proportion, cement float, machine cutting, dressing, leveling, jointing, filling the joints with neat cement slurry or with required pigment, machine polishing at site, curing, finishing, etc complete as directed by Engineer In Charge.		



Buildings Schedule/ Common Schedule 2018
Flooring Works

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE
R2-CS-FL-02-a	25 to 30 mm thk. Shahbad stone	Rmt	132
R2-CS-FL-02-b	25 to 30 mm thk. Kadappa stone	Rmt	122
R2-CS-FL-02-c	25 to 30 mm thk. Tandur stone	Rmt	110
R2-CS-FL-02-d	25 to 30 mm thk. Kota stone	Rmt	126
R2-CS-FL-02-e	18 mm thk. Green marble	Rmt	137
R2-CS-FL-02-f	18 mm thk. White marble of medium quality	Rmt	152
R2-CS-FL-02-g	18 mm thk. Jaisalmer Stone	Rmt	167
R2-CS-FL-02-h	18 mm thk. Red /Pink marble	Rmt	134
R2-CS-FL-02-i	18 mm thk. Lakha Red Granite tiles/slab	Rmt	774
R2-CS-FL-02-j	18 mm thk. Ruby red, jet black, Hasan green Granite tiles/slab	Rmt	696
R2-CS-FL-02-k	18 mm thk. Steel Gray Granite tiles/slab	Rmt	696
R2-CS-FL-03	Providing and laying polished natural stone design /decorative pattern upto 600mm x 600mm size in the material specified below (Machine cut) 25-30 mm. thick of an approved quality and size for paving /flooring including cement mortar bedding of 25 mm thick in 1:4 proportion, cement float, machine cutting, dressing, leveling, jointing, filling the joints with neat cement slurry or with required pigment, machine polishing at site, curing, finishing, etc complete as directed by Engineer In Charge.		
R2-CS-FL-03-a	25 to 30 mm thk. Shahbad stone	No.	463
R2-CS-FL-03-b	25 to 30 mm thk. Kadappa stone	No.	456
R2-CS-FL-03-c	25 to 30 mm thk. Tandur stone	No.	401
R2-CS-FL-03-d	25 to 30 mm thk. Kota stone	No.	457
R2-CS-FL-03-e	25 to 30 mm thk. Green marble	No.	644
R2-CS-FL-03-f	18 mm thk. White marble of medium quality	No.	611
R2-CS-FL-03-g	18 mm thk. Jaisalmer Stone	No.	745
R2-CS-FL-03-h	18 mm thk. Red /Pink marble	No.	576
R2-CS-FL-03-i	18 mm thk. Lakha Red Granite tiles/slab	No.	1370
R2-CS-FL-03-j	18 mm thk. Ruby red, jet black, Hasan green Granite tiles/slab	No.	837
R2-CS-FL-03-k	18 mm thk. Steel Gray Granite tiles/slab	No.	837



Buildings Schedule/ Common Schedule 2018
Flooring Works

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE
R2-CS-FL-04	Providing and laying rough natural stone tiles 25 mm to 30 mm thick of an approved quality and size for paving / flooring including cement mortar bedding of 25 mm thick in 1:4 proportion, cement float, pointing in cement mortar 1:3, cutting, dressing, leveling, jointing, pointing, curing, finishing etc complete as directed by Engineer In Charge.		
R2-CS-FL-04-a	25 to 30 mm thk. rough Shahbad stone	Sqm	622
R2-CS-FL-04-b	25 to 30 mm thk. rough Tandur stone	Sqm	754
R2-CS-FL-04-c	25 to 30 mm thk. rough Kota stone	Sqm	794
R2-CS-FL-04-d	25 to 30 mm thk. rough lakha red granite stone	Sqm	3946
R2-CS-FL-04-e	25 to 30 mm thk. rough Ruby red, jet black, Hasan green granite stone	Sqm	2445
R2-CS-FL-04-f	25 to 30 mm thk. rough steel gray granite stone	Sqm	2446
R2-CS-FL-05	Providing and laying red sand stone (Jaipur / Mandana / Agra) (Machine cut) 50 mm thick of an approved quality and size for paving / flooring including cement mortar bedding of 25 mm thick in 1:4 proportion, cement float, machine cutting, dressing, leveling, jointing, filling the joints with neat cement slurry or with required pigment, curing, finishing, etc complete as directed by Engineer In Charge.	Sqm	3266
R2-CS-FL-06	Providing and laying 6mm thk. ceramic tiles as specified below conforming to I.S.15622-2006 for flooring of an approved, quality, make, size and pattern /design, for flooring including cement mortar bedding of 25 mm thick in 1:4 proportion, neat cement float, cutting, leveling, jointing, filling the joints by neat cement slurry or approved colour grout, curing, finishing etc complete as directed by Engineer In Charge.		
R2-CS-FL-06-a	Light coloured glazed ceramic tiles	Sqm	1416
R2-CS-FL-06-b	Dark coloured glazed ceramic tiles	Sqm	1416
R2-CS-FL-06-c	Light coloured antiskid / matt ceramic tiles	Sqm	1416
R2-CS-FL-06-d	Dark coloured antiskid / matt ceramic tiles	Sqm	1416
R2-CS-FL-07	Providing and laying 8mm thk. ceramic tiles as specified below conforming to I.S.15622-2006 for flooring of an approved, quality, make, size and pattern /design, for flooring including cement mortar bedding of 25 mm thick in 1:4 proportion, neat cement float, cutting, leveling, jointing, filling the joints by neat cement slurry or approved colour grout, curing, finishing etc complete as directed by Engineer In Charge.		
R2-CS-FL-07-a	Light coloured glazed ceramic tiles	Sqm	1701
R2-CS-FL-07-b	Dark coloured glazed ceramic tiles	Sqm	1701



Buildings Schedule/ Common Schedule 2018
Flooring Works

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE
R2-CS-FL-07-c	Light coloured antiskid / matt ceramic tiles	Sqm	1701
R2-CS-FL-07-d	Dark coloured antiskid / matt ceramic tiles	Sqm	1701
R2-CS-FL-8	Providing and laying 600 x 600 x 8 mm thk. vitrified tiles as specified below conforming to I.S.15622-2006 with water absorption less than 0.08% for flooring of an approved, quality, make and pattern /design for flooring including cement mortar bedding of 25 mm thick in 1:4 proportion, cutting, leveling, jointing, filling the joints by neat cement slurry or approved colour grout, curing, finishing etc complete as directed by Engineer In Charge.		
R2-CS-FL-8-a	Light coloured glazed vitrified tiles	Sqm	1608
R2-CS-FL-8-b	Dark coloured glazed vitrified tiles	Sqm	1608
R2-CS-FL-8-c	Light coloured antiskid / matt vitrified tiles	Sqm	1608
R2-CS-FL-8-d	Dark coloured antiskid / matt vitrified tiles	Sqm	1608
R2-CS-FL-9	Providing and laying 800 x 800 x 10 mm thk. vitrified tiles as specified below conforming to I.S.15622-2006 with water absorption less than 0.08% for flooring of an approved, quality, make, pattern and size for flooring including cement mortar bedding of 25 mm thick in 1:4 proportion, cutting, leveling, jointing, filling the joints by neat cement slurry or approved colour grout, curing, finishing etc complete as directed by Engineer In Charge.		
R2-CS-FL-9-a	Light coloured glazed vitrified tiles	Sqm	1762
R2-CS-FL-9-b	Dark coloured glazed vitrified tiles	Sqm	1762
R2-CS-FL-9-c	Light coloured antiskid / matt vitrified tiles	Sqm	1762
R2-CS-FL-9-d	Dark coloured antiskid / matt vitrified tiles	Sqm	1762
R2-CS-FL-10	Providing and laying 10 to 13mm thk. heavy duty, scratch resistant, high abrasion resistant vitrified tiles (Durastone or equivalent) conforming to I.S.15622 with special hard wearing layer and water absorption less than 0.08% for flooring of an approved, quality, make, pattern and size for flooring including cement mortar bedding of 25 mm thick in 1:4 proportion, cutting, leveling, jointing, filling the joints by neat cement slurry or approved colour grout, curing, finishing etc complete as directed by Engineer In Charge.	Sqm	1736



Buildings Schedule/ Common Schedule 2018
Flooring Works

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE
R2-CS-FL-11	Providing and laying 15mm thk. Acid proof tiles tiles of an approved, quality, make, pattern and size for flooring in the areas like battery rooms etc. including cement mortar bedding of 25 mm thick in 1:4 proportion, cutting, leveling, jointing, filling the joints in acid proof epoxy mortar of approved colour and shades, curing, finishing etc complete as per manufacturer's specification and as directed by Engineer In Charge.	Sqm	2278
R2-CS-FL-12	Providing and laying 18 mm thk., heavy duty metallic topping for flooring in cement mortar 1:2, with 4 Kg / Sqmt ironite or equivalent over existing concrete bed and as per manufacturers specifications including leveling, curing, finishing etc complete as directed by Engineer In Charge.	Sqm	346
R2-CS-FL-13	Providing and laying Indian patent stone flooring 40 mm thick with M-15 grade concrete using 6 mm to 20 mm metal over bedding laid in proper grade and slope or over the slab, including compaction, marking lines, to give appearance of tiles as per the approved pattern, finishing smooth with cement slurry as mentioned below, curing etc. complete.		
R2-CS-FL-13-a	In plain natural/ grey colours.	Sqm	437
R2-CS-FL-13-b	In red colours	Sqm	513
R2-CS-FL-14	Providing and fixing strips as specified below in joints of flooring as per the approved pattern, spacing including levelling, polishing, finishing etc. complete as directed by Engineer in charge.		
R2-CS-FL-14-a	3.15 mm thk., 35 mm wide aluminum strips	Rmt	61
R2-CS-FL-14-b	3.15 mm thk., 35 mm wide brass strips	Rmt	68
R2-CS-FL-14-c	4 mm thk., 35 mm wide glass strips	Rmt	52
R2-CS-FL-15	Providing and fixing 50 mm thick precast concrete interlocking paving block of concrete grade M30 for non traffic areas like footpath, paving etc. and as per the approved size, pattern, shape, colour, make, conforming to IS 15658, including 30mm thick sand bedding and edge confinements in cement mortar 1:3, laying in perfect line and grade etc. complete.	Sqm	531



Buildings Schedule/ Common Schedule 2018
Flooring Works

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE
R2-CS-FL-16	Providing and laying 16-20 mm thick and 75mm wide strips of rough jet black Granite stone (or equivalent) of approved colour, on ramp to get anti-skid effect including cement mortar bedding of 25 mm thick in 1:4 proportion, cement float, machine cutting, dressing, leveling, jointing, filling the joints with neat cement slurry or with required pigment, curing, finishing etc. complete as directed by Engineer-in-charge.	Sqm	5501
R2-CS-FL-17	Providing laying and fixing glass mosaic tiles in the wet areas like swimming pool, toilets etc. of approved make, colour, pattern, size and thickness on the surface treated with waterproofing compound including backing coat of approved latex-modified thinset, jointing, filling the joints with non shrink neat cementitious coloured grout, curing, ponding, finishing etc. complete as per manufacturers specifications and as directed by Engineer-in-charge.	Sqm	1923
R2-CS-FL-18	Providing, laying and fixing glass tile (Vitrum tiles or equivalent) in the wet areas of approved make, size and type on the existing surface treated with waterproofing compound, including epoxy adhesive (Laticrete Latapoxy 300 or equivalent) for fixing the tile, cutting, filling joints with epoxy grout, and cleaning etc. complete as per manufacturers specifications and directed by engineer.	Sqm	2691
R2-CS-FL-19	Providing and fixing 80mm thk. Glass bricks of approved make, size and type in glass block adhesive including filling joints with glass block grout, cleaning etc. complete as directed by Engineer in charge.	Sqm	1913
R2-CS-FL-20	Providing and fixing 2mm thick Antistatic Vinyl flooring of approved brand, pattern, shade fixed with approved adhesive as per manufacturer's specifications including floor base preparation using epoxy mortar if required. The flooring shall be in roll form etc complete as directed by Engineer In Charge.	Sqm	369



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE
R2-CS-FL-21	Providing and fixing polished natural stone tiles /slab as specified below of approved quality, pattern and colour for flush/projected skirting and risers including preparing the surface and levelling in the desired line, backing of 20 thk. cement mortar in porportion 1:3, square cut top edge or chamfered top edge in cement mortar 1:3, cement float, machine cutting, leveling, jointing, filling the joints with neat cement or pigment mixed with cement, polishing, finishing, curing etc complete as directed by Engineer In Charge.		
R2-CS-FL-21-a	15 to 20mm thk. Shahbad stone for height upto 150 mm	Rmt	235
R2-CS-FL-21-b	15 to 20mm thk. Kadappa stone for height upto 150 mm	Rmt	232
R2-CS-FL-21-c	15 to 20mm thk. Tandur stone for height upto 150 mm	Rmt	212
R2-CS-FL-21-d	15 to 20mm thk. Kota stone for height upto 150 mm	Rmt	234
R2-CS-FL-21-e	15 to 20mm thk. Green marble for height upto 150 mm	Rmt	304
R2-CS-FL-21-f	15 to 20mm thk. white marble of lower quality for height upto 150 mm	Rmt	282
R2-CS-FL-21-g	15 to 20mm thk. Jaisalmer Stone for height upto 150 mm	Rmt	342
R2-CS-FL-21-h	15 to 20mm thk. Red/pink marble for height upto 150 mm	Rmt	279
R2-CS-FL-21-i	15 to 20mm thk. Lakha Red Granite for height upto 150 mm	Rmt	577
R2-CS-FL-21-j	15 to 20 mm thk. Ruby red, jet black, Hasan green Granite tiles/slab for height upto 150 mm	Rmt	377
R2-CS-FL-21-k	15 to 20 mm thk. Steel Gray Granite for height upto 150mm	Rmt	377
R2-CS-FL-21-l	15 to 20mm thk. Shahbad stone for height upto 300 mm	Rmt	338
R2-CS-FL-21-m	15 to 20mm thk. Kadappa stone for height upto 300 mm	Rmt	333
R2-CS-FL-21-n	15 to 20mm thk. Tandur stone for height upto 300 mm	Rmt	291
R2-CS-FL-21-o	15 to 20mm thk. Kota stone for height upto 300 mm	Rmt	336
R2-CS-FL-21-p	15 to 20mm thk. Green marble for height upto 300 mm	Rmt	476
R2-CS-FL-21-q	15 to 20mm thk. White marble of lower quality for height upto 300 mm	Rmt	431
R2-CS-FL-21-r	15 to 20mm thk. Jaisalmer Stone for height upto 300 mm	Rmt	552
R2-CS-FL-21-s	15 to 20mm thk. Red/pink marble for height upto 300 mm	Rmt	425
R2-CS-FL-21-t	15 to 20mm thk. Lakha Red Granite for height upto 300 mm	Rmt	1021



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE
R2-CS-FL-21-u	8 to 10 mm thk. Ruby red, jet black, Hasan green Granite tiles/slab for height upto 300 mm	Rmt	621
R2-CS-FL-21-v	8 to 10 mm thk. Steel Gray Granite tiles/slab for height upto 300mm	Rmt	621
R2-CS-FL-22	Providing and fixing 15 to 20mm thk. rough natural stone tiles as specified below of approved quality, pattern and colour for flush/projected skirting and risers including preparing the surface and levelling in the desired line, backing of 20 thk. cement mortar in porportion 1:3, square cut top edge or chamfered top edge in cement mortar 1:3, cement float, machine cutting, leveling, jointing, filling the joints with neat cement or pigment mixed with cement, polishing, finishing, curing etc complete as directed by Engineer In Charge.		
R2-CS-FL-22-a	Shahbad stone for height upto 150 mm	Rmt	166
R2-CS-FL-22-b	Kadappa stone for height upto 150 mm	Rmt	206
R2-CS-FL-22-c	Tandur stone for height upto 150 mm	Rmt	187
R2-CS-FL-22-d	Kota stone for height upto 150 mm	Rmt	205
R2-CS-FL-22-e	Lakha Red Granite for height upto 150 mm	Rmt	699
R2-CS-FL-22-f	Ruby red, jet black, hasan green Granite for height upto 150 mm	Rmt	464
R2-CS-FL-22-g	Steel gray Granite tiles/slab for height upto 150 mm	Rmt	464
R2-CS-FL-22-h	Shahbad stone for height upto 300 mm	Rmt	221
R2-CS-FL-22-i	Kadappa stone for height upto 300 mm	Rmt	221
R2-CS-FL-22-j	Tandur stone for height upto 300 mm	Rmt	262
R2-CS-FL-22-k	Kota stone for height upto 300 mm	Rmt	299
R2-CS-FL-22-l	Lakha Red Granite for height upto 300 mm	Rmt	1287
R2-CS-FL-22-m	Ruby red, jet black, hasan green Granite for height upto 300 mm	Rmt	817
R2-CS-FL-22-n	Steel gray Granite tiles/slab for height upto 300 mm	Rmt	817



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE
R2-CS-FL-23	Providing and fixing 6mm thk. ceramic tiles as specified below conforming to I.S. 15622-2006 of approved quality, pattern and colour for flush/projected skirting and risers including preparing the surface and levelling in the desired line, backing of 20 thk. cement mortar in porportion 1:3, square cut top edge or chamfered top edge in cement mortar 1:3, cement float, machine cutting, leveling, jointing, filling the joints with neat cement slurry or approved colour grout, finishing, curing etc complete as directed by Engineer In Charge.		
R2-CS-FL-23-a	Light coloured glazed ceramic tiles for height upto 150mm	Rmt	205
R2-CS-FL-23-b	Dark coloured glazed ceramic tiles for height upto 150mm	Rmt	221
R2-CS-FL-23-c	Light coloured antiskid / matt ceramic tiles for height upto 150mm	Rmt	221
R2-CS-FL-23-d	Dark coloured antiskid / matt ceramic tiles for height upto 150mm	Rmt	221
R2-CS-FL-23-e	Light coloured glazed ceramic tiles for height upto 300mm	Rmt	310
R2-CS-FL-23-f	Dark coloured glazed ceramic tiles for height upto 300mm	Rmt	310
R2-CS-FL-23-g	Light coloured antiskid / matt ceramic tiles for height upto 300mm	Rmt	310
R2-CS-FL-23-h	Dark coloured antiskid / matt ceramic tiles for height upto 300mm	Rmt	310
R2-CS-FL-24	Providing and fixing 8mm thk. ceramic tiles as specified below conforming to I.S. 15622-2006 of approved quality, pattern and colour for flush/projected skirting and risers including preparing the surface and levelling in the desired line, backing of 20 thk. cement mortar in porportion 1:3, square cut top edge or chamfered top edge in cement mortar 1:3, cement float, machine cutting, leveling, jointing, filling the joints with neat cement slurry or approved colour grout, finishing, curing etc complete as directed by Engineer In Charge.		
R2-CS-FL-24-a	Light coloured glazed ceramic tiles for height upto 150mm	Rmt	265
R2-CS-FL-24-b	Dark coloured glazed ceramic tiles for height upto 150mm	Rmt	265
R2-CS-FL-24-c	Light coloured antiskid / matt ceramic tiles for height upto 150mm	Rmt	265
R2-CS-FL-24-d	Dark coloured antiskid / matt ceramic tiles for height upto 150mm	Rmt	265
R2-CS-FL-24-e	Light coloured glazed ceramic tiles for height upto 300mm	Rmt	380
R2-CS-FL-24-f	Dark coloured glazed ceramic tiles for height upto 300mm	Rmt	397



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE
R2-CS-FL-24-g	Light coloured antiskid / matt ceramic tiles for height upto 300mm	Rmt	397
R2-CS-FL-24-h	Dark coloured antiskid / matt ceramic tiles for height upto 300mm	Rmt	397
R2-CS-FL-25	Providing and fixing 8mm thk. vitrified tiles as specified below conforming to I.S. 15622-2006 of approved quality, pattern and colour for flush/projected skirting / riser including preparing the surface and levelling in the desired line, backing of 20 thk. cement mortar in porportion 1:3, square cut top edge or chamfered top edge in cement mortar 1:3, cement float, machine cutting, leveling, jointing, filling the joints with neat cement slurry or pigments mixed with cement, finishing, curing etc complete as directed by Engineer In Charge.		
R2-CS-FL-25-a	Light coloured glazed vitrified tiles for height upto 150mm	Rmt	251
R2-CS-FL-25-b	Dark coloured glazed vitrified tiles for height upto 150mm	Rmt	251
R2-CS-FL-25-c	Light coloured antiskid / matt vitrified tiles for height upto 150mm	Rmt	251
R2-CS-FL-25-d	Dark coloured antiskid / matt vitrified tiles for height upto 150mm	Rmt	251
R2-CS-FL-25-e	Light coloured glazed vitrified tiles for height upto 300mm	Rmt	368
R2-CS-FL-25-f	Dark coloured glazed vitrified tiles for height upto 300mm	Rmt	368
R2-CS-FL-25-g	Light coloured antiskid / matt vitrified tiles for height upto 300mm	Rmt	368
R2-CS-FL-25-h	Dark coloured antiskid / matt vitrified tiles for height upto 300mm	Rmt	368
R2-CS-FL-26	Providing and fixing 10mm thk. vitrified tiles as specified below conforming to I.S. 15622-2006 of approved quality, pattern and colour for flush/projected skirting and risers including preparing the surface and levelling in the desired line, backing of 20 thk. cement mortar in porportion 1:3, square cut top edge or chamfered top edge in cement mortar 1:3, cement float, machine cutting, leveling, jointing, filling the joints with neat cement slurry or pigments mixed with cement, finishing, curing etc complete as directed by Engineer In Charge.		
R2-CS-FL-26-a	Light coloured glazed vitrified tiles for height upto 150mm	Rmt	274
R2-CS-FL-26-b	Dark coloured glazed vitrified tiles for height upto 150mm	Rmt	274
R2-CS-FL-26-c	Light coloured antiskid / matt vitrified tiles for height upto 150mm	Rmt	274
R2-CS-FL-26-d	Dark coloured antiskid / matt vitrified tiles for height upto 150mm	Rmt	274



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE
R2-CS-FL-26-e	Light coloured glazed vitrified tiles for height upto 300mm	Rmt	415
R2-CS-FL-26-f	Dark coloured glazed vitrified tiles for height upto 300mm	Rmt	415
R2-CS-FL-26-g	Light coloured antiskid / matt vitrified tiles for height upto 300mm	Rmt	415
R2-CS-FL-26-h	Dark coloured antiskid / matt vitrified tiles for height upto 300mm	Rmt	415
R2-CS-FL-27	Rebate in any type of skirting for not providing backing of 20mm thk. cement mortar.		
R2-CS-FL-27-a	For skirting of height upto 150mm	Rmt	51
R2-CS-FL-27-b	For skirting of height more than 150mm and upto to 300mm	Rmt	64
R2-CS-FL-28	Providing and fixing polished natural stone tiles as specified below of approved quality, pattern and colour for dado including preparing the surface and levelling in the desired line, backing of 20 thk. cement mortar in porportion 1:3, square cut top edge or chamfered top edge in cement mortar 1:3, cement float, machine cutting, leveling, jointing, filling the joints with neat cement or pigment mixed with cement, polishing, finishing, curing etc complete as directed by Engineer In Charge.		
R2-CS-FL-28-a	25 to 30 mm thk. Shahbad stone	Sqm	1650
R2-CS-FL-28-b	25 to 30mm thk. Kadappa stone	Sqm	1633
R2-CS-FL-28-c	25 to 30mm thk. Tandur stone	Sqm	1495
R2-CS-FL-28-d	25 to 30mm thk. Kota stone	Sqm	1559
R2-CS-FL-28-e	18mm thk. green marble	Sqm	2027
R2-CS-FL-28-f	18mm thk. superior quality	Sqm	2016
R2-CS-FL-28-g	18mm thk. medium quality	Sqm	1945
R2-CS-FL-28-h	18mm thk. lower quality	Sqm	1870
R2-CS-FL-28-i	18mm thk. Jaisalmer Stone/ Yellow Marble	Sqm	2280
R2-CS-FL-28-j	18mm thk. red/pink marble	Sqm	1857
R2-CS-FL-28-k	18mm thk. Lakha Red granite	Sqm	3844
R2-CS-FL-28-l	18mm thk. Ruby red, jet black, Hasan green Granite	Sqm	2510
R2-CS-FL-28-m	18mm thk. Steel gray Granite tiles/slab	Sqm	2510



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE
R2-CS-FL-29	Providing and fixing 15 to 20mm thk. well dressed Dholpur stone tiles of approved quality, pattern, size and colour for dado including preparing the surface and levelling in the desired line, backing of 20 thk. cement mortar in porportion 1:3, square cut top edge or chamfered top edge in cement mortar 1:3, cement float, machine cutting, leveling, jointing, filling the joints with neat cement or pigment mixed with cement, finishing, curing etc complete as directed by Engineer In Charge.	Sqm	1411
R2-CS-FL-30	Providing and fixing 25 to 35mm thk. red sand stone tiles of approved quality, pattern, size and colour for dado including preparing the surface and levelling in the desired line, backing of 20 thk. cement mortar in porportion 1:3, square cut top edge or chamfered top edge in cement mortar 1:3, fixed with metal clamp and brass pins, cement float, machine cutting, leveling, jointing, filling the joints with neat cement or pigment mixed with cement, finishing, cleaning and washing with diluted solution of muriatic acid, curing etc complete as directed by Engineer In Charge.	Sqm	1641
R2-CS-FL-31	Providing and fixing 6mm thk. ceramic tiles as specified below conforming to I.S. 15622-2006 of approved quality, pattern and colour for dado in the wet area including preparing the surface and levelling in the desired line, backing of 20 thk. cement mortar in porportion 1:3 with approved waterproofing compound, square cut top edge or chamfered top edge in cement mortar 1:3, cement float, machine cutting, leveling, jointing, filling the joints with neat cement slurry or approved colour grout, finishing, curing etc complete as directed by Engineer In Charge.		
R2-CS-FL-31-a	Light coloured glazed ceramic tiles	Sqm	1480
R2-CS-FL-31-b	Dark coloured glazed ceramic tiles	Sqm	1480
R2-CS-FL-31-c	Light coloured antiskid / matt ceramic tiles	Sqm	1480
R2-CS-FL-31-d	Dark coloured antiskid / matt ceramic tiles	Sqm	1480



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE
R2-CS-FL-32	Providing and fixing 8mm thk. ceramic tiles as specified below conforming to I.S. 15622-2006 of approved quality, pattern and colour for dado in the wet area including preparing the surface and levelling in the desired line, backing of 20 thk. cement mortar in porportion 1:3 with approved waterproofing compound, square cut top edge or chamfered top edge in cement mortar 1:3, cement float, machine cutting, leveling, jointing, filling the joints with neat cement slurry or approved colour grout, finishing, curing etc complete as directed by Engineer In Charge.		
R2-CS-FL-32-a	Light coloured glazed ceramic tiles	Sqm	1770
R2-CS-FL-32-b	Dark coloured glazed ceramic tiles	Sqm	1770
R2-CS-FL-32-c	Light coloured antiskid / matt ceramic tiles	Sqm	1770
R2-CS-FL-32-d	Dark coloured antiskid / matt ceramic tiles	Sqm	1770
R2-CS-FL-33	Providing and fixing 6mm thk. ceramic tiles as specified below conforming to I.S. 15622-2006 of approved quality, pattern and colour for dado in the dry area including preparing the surface and levelling in the desired line, backing of 20 thk. cement mortar in porportion 1:3, square cut top edge or chamfered top edge in cement mortar 1:3, cement float, machine cutting, leveling, jointing, filling the joints with neat cement slurry or approved colour grout, finishing, curing etc complete as directed by Engineer In Charge.		
R2-CS-FL-33-a	Light coloured glazed ceramic tiles	Sqm	1476
R2-CS-FL-33-b	Dark coloured glazed ceramic tiles	Sqm	1476
R2-CS-FL-33-c	Light coloured antiskid / matt ceramic tiles	Sqm	1476
R2-CS-FL-33-d	Dark coloured antiskid / matt ceramic tiles	Sqm	1476
R2-CS-FL-34	Providing and fixing 8mm thk. ceramic tiles as specified below conforming to I.S. 15622-2006 of approved quality, pattern and colour for dado in the dry area including preparing the surface and levelling in the desired line, backing of 20 thk. cement mortar in porportion 1:3, square cut top edge or chamfered top edge in cement mortar 1:3, cement float, machine cutting, leveling, jointing, filling the joints with neat cement slurry or approved colour grout, finishing, curing etc complete as directed by Engineer In Charge.		
R2-CS-FL-34-a	Light coloured glazed ceramic tiles	Sqm	1766
R2-CS-FL-34-b	Dark coloured glazed ceramic tiles	Sqm	1766



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE
R2-CS-FL-34-c	Light coloured antiskid / matt ceramic tiles	Sqm	1766
R2-CS-FL-34-d	Dark coloured antiskid / matt ceramic tiles	Sqm	1766
R2-CS-FL-35	Providing and fixing 15 mm thk. Acid proof tiles approved quality, pattern and colour for dado in the areas like battery rooms etc. including preparing the surface and levelling in the desired line, backing of 20 thk. cement mortar in porportion 1:3, square cut top edge or chamfered top edge in cement mortar 1:3, cement float, machine cutting, leveling, jointing, filling the joints with acid proof epoxy mortar, finishing, curing etc complete as directed by Engineer In Charge.	Sqm	2718
R2-CS-FL-36	Providing and fixing antibacterial tiles approved quality, pattern and colour for dado in the areas like hospitals etc. including preparing the surface and leveling in the desired line, backing of 20 thk. cement mortar in proportion 1:3 with waterproof compound, square cut top edge or chamfered top edge in cement mortar 1:3, cement float, machine cutting, leveling, jointing, filling the joints with neat cement slurry or approved colour grout, finishing, curing etc complete as directed by Engineer In Charge.	Sqm	1576
R2-CS-FL-37	Rebate in any type of dadowork for not providing and applying backing of 20mm thk. cement mortar.	Sqm	343
R2-CS-FL-38	Providing and fixing polished natural stone slab as specified below of approved quality, pattern and colour for treads including preparing the surface and levelling in the desired line, in cement mortar 1:4, cement float, machine cutting, leveling, jointing, smooth cement plastering along the sides to match the existing surface in cement mortar 1:3, filling the joints with neat cement or pigment mixed with cement, polishing, finishing, curing etc complete as directed by Engineer In Charge.		
R2-CS-FL-38-a	15 to 20mm thk.Shahbad stone for width upto 300 mm	Rmt	689
R2-CS-FL-38-b	15 to 20mm thk. Kadappa stone for width upto 300 mm	Rmt	685
R2-CS-FL-38-c	15 to 20mm thk. Tandur stone for width upto 300 mm	Rmt	646
R2-CS-FL-38-d	15 to 20mm thk. Kota stone for width upto 300 mm	Rmt	664
R2-CS-FL-38-e	15 to 20mm thk. Green marble for width upto 300 mm	Rmt	662
R2-CS-FL-38-f	15 to 20mm thk. Superior quality white marble for width upto 300 mm	Rmt	698
R2-CS-FL-38-g	15 to 20mm thk. Medium quality white marble for width upto 300 mm	Rmt	675



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE
R2-CS-FL-38-h	15 to 20mm thk. Lower quality white marble for width upto 300 mm	Rmt	654
R2-CS-FL-38-i	15 to 20mm thk. Jaisalmer Stone for width upto 300 mm	Rmt	732
R2-CS-FL-38-j	15 to 20mm thk. Red/pink marble for width upto 300 mm	Rmt	614
R2-CS-FL-38-k	15 to 20mm thk. Lakha Red Granite for width upto 300 mm	Rmt	1170
R2-CS-FL-38-l	8 to 10 mm thk. Ruby red, jet black, Hasan green Granite for width upto 300 mm	Rmt	797
R2-CS-FL-38-m	8 to 10 mm thk. Steel gray Granite tiles/slab for width upto 300mm	Rmt	797
R2-CS-FL-39	Providing and fixing rough natural stone slab as specified below of approved quality, pattern and colour for treads including preparing the surface and levelling in the desired line, in cement mortar 1:4, cement float, machine cutting, leveling, jointing, smooth cement plastering along the sides to match the existing surface in cement mortar 1:3, filling the joints with neat cement or pigment mixed with cement, polishing, finishing, curing etc complete as directed by Engineer In Charge.		
R2-CS-FL-39-a	Shahbad stone for width upto 300 mm	Rmt	602
R2-CS-FL-39-b	Tandur stone for width upto 300 mm	Rmt	642
R2-CS-FL-39-c	Kota stone for width upto 300 mm	Rmt	654
R2-CS-FL-39-d	Lakha Red Granite stone for width upto 300 mm	Rmt	1466
R2-CS-FL-39-e	Ruby red, jet black, Hasan green Granite for width upto 300 mm	Rmt	1016
R2-CS-FL-39-f	Steel gray Granite tiles/slab for width upto 300mm	Rmt	1016
R2-CS-FL-40	Providing and fixing polished natural stone tiles as specified below of approved quality, pattern and colour for sill and jambs including preparing the surface and levelling in the desired line, cement mortar 1:3 bedding or backing, cement float, machine cutting, leveling, jointing, smooth cement plastering along the sides to match the existing surface in cement mortar 1:3, filling the joints with neat cement or pigment mixed with cement, finishing, curing etc complete as directed by Engineer In Charge.		
R2-CS-FL-40-a	25 to 30mm thk. shahbad stone for width upto 150 mm	Rmt	235
R2-CS-FL-40-b	25 to 30mm thk. Kadappa stone for width upto 150 mm	Rmt	232
R2-CS-FL-40-c	25 to 30mm thk. Tandur stone for width upto 150 mm	Rmt	212



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE
R2-CS-FL-40-d	25 to 30mm thk. Kota stone for width upto 150 mm	Rmt	234
R2-CS-FL-40-e	18mm thk. green marble for width upto 150 mm	Rmt	304
R2-CS-FL-40-f	18mm thk. white marble of lower quality for width upto 150 mm	Rmt	270
R2-CS-FL-40-g	18mm thk. Jaisalmer Stone for width upto 150 mm	Rmt	342
R2-CS-FL-40-h	18mm thk. red/pink marble for width upto 150 mm	Rmt	279
R2-CS-FL-40-i	18mm thk. Lakha Red granite for width upto 150 mm	Rmt	577
R2-CS-FL-40-j	18mm thk. Ruby red, jet black, Hasan green Granite for width upto 150 mm	Rmt	377
R2-CS-FL-40-k	18mm thk. Steel gray Granite slab for width upto 150mm	Rmt	377
R2-CS-FL-40-l	25 to 30mm thk. shahbad stone for width upto 300 mm	Rmt	338
R2-CS-FL-40-m	25 to 30mm thk. Kadappa stone for width upto 300 mm	Rmt	333
R2-CS-FL-40-n	25 to 30mm thk. Tandur stone for width upto 300 mm	Rmt	291
R2-CS-FL-40-o	25 to 30mm thk. Kota stone for width upto 300 mm	Rmt	336
R2-CS-FL-40-p	18mm thk. green marble for width upto 300 mm	Rmt	476
R2-CS-FL-40-q	18mm thk. white marble of lower quality for width upto 300 mm	Rmt	409
R2-CS-FL-40-r	18mm thk. Jaisalmer Stone for width upto 300 mm	Rmt	552
R2-CS-FL-40-s	18mm thk. red/pink marble for width upto 300 mm	Rmt	425
R2-CS-FL-40-t	18mm thk. Lakha Red granite for width upto 300 mm	Rmt	1021
R2-CS-FL-40-u	18mm thk. Ruby red, jet black, Hasan green Granite for width upto 300 mm	Rmt	621
R2-CS-FL-40-v	18mm thk. Steel gray Granite slab for width upto 300mm	Rmt	621
R2-CS-FL-41	Providing and fixing 8mm thk. vitrified tiles as specified below conforming to I.S. 15622-2006 of approved quality, pattern and colour for sill and jambs including preparing the surface and levelling in the desired line, cement mortar 1:3 bedding or backing, cement float, machine cutting, leveling, jointing, smooth cement plastering along the sides to match the existing surface in cement mortar 1:3, filling the joints with neat cement slurry or pigments mixed with cement, finishing, curing etc complete as directed by Engineer In Charge.		
R2-CS-FL-41-a	Light coloured glazed vitrified tiles for width upto 150mm	Rmt	251



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE
R2-CS-FL-41-b	Dark coloured glazed vitrified tiles for width upto 150mm	Rmt	251
R2-CS-FL-41-c	Light coloured antiskid / matt vitrified tiles for width upto 150mm	Rmt	251
R2-CS-FL-41-d	Dark coloured antiskid / matt vitrified tiles for width upto 150mm	Rmt	251
R2-CS-FL-41-e	Light coloured glazed vitrified tiles for width upto 300mm	Rmt	368
R2-CS-FL-41-f	Dark coloured glazed vitrified tiles for width upto 300mm	Rmt	368
R2-CS-FL-41-g	Light coloured antiskid / matt vitrified tiles for width upto 300mm	Rmt	368
R2-CS-FL-41-h	Dark coloured antiskid / matt vitrified tiles for width upto 300mm	Rmt	368
R2-CS-FL-42	Providing and fixing 10mm thk. vitrified tiles as specified below conforming to I.S. 15622-2006 of approved quality, pattern and colour for sill and jambs including preparing the surface and levelling in the desired line, cement mortar 1:3 bedding or backing, cement float, machine cutting, leveling, jointing, smooth cement plastering along the sides to match the existing surface in cement mortar 1:3, filling the joints with neat cement slurry or pigments mixed with cement, finishing, curing etc complete as directed by Engineer In Charge.		
R2-CS-FL-42-a	Light coloured glazed vitrified tiles for width upto 150mm	Rmt	273
R2-CS-FL-42-b	Dark coloured glazed vitrified tiles for width upto 150mm	Rmt	274
R2-CS-FL-42-c	Light coloured antiskid / matt vitrified tiles for width upto 150mm	Rmt	274
R2-CS-FL-42-d	Dark coloured antiskid / matt vitrified tiles for width upto 150mm	Rmt	274
R2-CS-FL-42-f	Light coloured glazed vitrified tiles for width upto 300mm	Rmt	415
R2-CS-FL-42-g	Dark coloured glazed vitrified tiles for width upto 300mm	Rmt	415
R2-CS-FL-42-h	Light coloured antiskid / matt vitrified tiles for width upto 300mm	Rmt	415
R2-CS-FL-42-i	Dark coloured antiskid / matt vitrified tiles for width upto 300mm	Rmt	415



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE
R2-CS-FL-43	Providing and fixing all sides polished natural stone tiles as specified below of approved quality, pattern, colour and thickness for partition including making the groove in existing cladding/ plaster/ concrete/ masonry, machine cutting, leveling, smooth cement plastering along the sides to match the existing surface in cement mortar, filling the joints with neat cement or pigment mixed with cement, cutting for utility pipe in the shape as directed, cleaning, finishing, curing etc complete as directed by Engineer In Charge.		
R2-CS-FL-43-a	25 to 30mm thk. shahbad stone	Sqm	1130
R2-CS-FL-43-b	25 to 30mm thk. Kadappa stone	Sqm	1115
R2-CS-FL-43-c	25 to 30mm thk. Tandur stone	Sqm	993
R2-CS-FL-43-d	25 to 30mm thk. Kota stone	Sqm	1049
R2-CS-FL-43-e	18mm thk. green marble	Sqm	1467
R2-CS-FL-43-f	18mm thk. of lower quality white marble	Sqm	1304
R2-CS-FL-43-g	18mm thk. Jaisalmer Stone	Sqm	1691
R2-CS-FL-43-h	18mm thk. red/pink marble	Sqm	1316
R2-CS-FL-43-i	18mm thk. Lakha Red granite	Sqm	3084
R2-CS-FL-43-j	18mm thk. Ruby red, jet black, Hasan green Granite	Sqm	1897
R2-CS-FL-43-k	18mm thk. Steel gray Granite tiles/slab	Sqm	1897
R2-CS-FL-44	Providing and fixing all sides polished natural stone as specified below of approved quality, pattern, colour and thickness for door and window frames / architraves including preparing the surface and levelling in the desired line, machine cutting, jointing in approved adhesives, leveling, smooth cement plastering along the sides to match the existing surface in cement mortar, filling the joints with pigment mixed with cement, cleaning, finishing, curing etc complete as directed by Engineer In Charge.		
R2-CS-FL-44-a	With Kadappa stone	Rmt	449
R2-CS-FL-44-b	With green marble	Rmt	502
R2-CS-FL-44-c	With Lakha Red granite	Rmt	744
R2-CS-FL-44-d	With Ruby red, jet black, Hasan green Granite	Rmt	566



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE
R2-CS-FL-44-e	With Steel gray Granite	Rmt	566
R2-CS-FL-45	Providing and constructing raised platform of 750 mm wide and 600 to 750mm high using minimum 40mm thick polished kadappa stone slab of approved quality at top, supported by both side polished, 40mm thk. and 700mm wide kadappa spaced at not more than 1200mm clear, including polished kadappa facia of min. 75mm hight with champhered at the top edges, making opening for sink and fixing the same in position, preparing the surface and levelling in the desired line, machine cutting, jointing in approved adhesives, leveling, smooth cement plastering along the sides to match the existing surface in cement mortar, filling the joints with pigment mixed with cement, cleaning, finishing, curing etc complete as directed by Engineer In Charge. (Sink will be paid separately)	Rmt	2401
R2-CS-FL-46	Providing and constructing raised platform of 750 mm wide and 600 to 750mm high using minimum 40mm thick polished kadappa stone slab base with minimum 15mm thk. polished stone top as specified below of approved quality, colour and texture, supported by both side polished, 40mm thk. and minimum 700mm wide kadappa spaced at not more than 1200mm clear, including polished facia of min. 100mm height as specified below with champhered/ rounded at the top edges, jointing in approved adhesives, machine cutting, making opening for sink and fixing the same in position, leveling, smooth cement plastering along the sides to match the existing surface in cement mortar, filling the joints with pigment mixed with cement, cleaning, finishing, curing etc complete as directed by Engineer In Charge. (The cost of providing the sink shall be paid extra as per plumbing items)		
R2-CS-FL-46-a	Green marble slab at top and facia	Rmt	3601
R2-CS-FL-46-b	Lakha Red Granite slab at top and facia	Rmt	4910
R2-CS-FL-46-c	Ruby red / jet black / Hasan green Granite slab at top and facia	Rmt	3949
R2-CS-FL-46-d	Steel gray Granite granite slab at top and facia	Rmt	3949



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Flooring Works

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE
R2-CS-FL-47	Providing and fixing the both face polished natural stone as specified below for shelf including making the slots for support, cutting, jointing in approved adhesives or any other approved means, filling the joints with neat cement motar with neat smooth plastering as required etc. complete as directed by Engineer-In-Charge.		
R2-CS-FL-47-a	25 to 30mm thk. Kadappa	Sqm	1094
R2-CS-FL-47-b	18mm thk. green marble	Sqm	1446
R2-CS-FL-47-c	18mm thk. Lakha Red granite	Sqm	3063
R2-CS-FL-47-d	18mm thk. Ruby red / jet black / Hasan green Granite	Sqm	1876
R2-CS-FL-47-e	18mm thk. Steel gray Granite granite	Sqm	1876
R2-CS-FL-48	Providing and fixing finely dressed blue basalt stone of size 40 cm X 40 cm X 15 cm in washing place including cement mortar bedding of 25mm thk. In 1:3 proportion, cement float, levelling, smooth cement plastering along the sides to match the existing surface in cement mortar, curing, finishing etc. complete as directed by Engineer-In-Charge.	No.	521
R2-CS-FL-49	Providing and fixing precast concrete block of size 40 cm X 40 cm X 15 cm and grade M15 in washing place with rough shahabad tile fixed on top using cement mortar, including cement mortar bedding in 1:3 proportion, cement float, levelling, smooth cement plastering along the sides to match the existing surface in cement mortar, curing, finishing etc. complete as directed by Engineer-In-Charge.	No.	858
R2-CS-FL-50	Providing and fixing 20mm to 25 mm thk. polished jet black granite stone plaque for inauguration of approved quality including preparing the surface and levelling in the desired line, cement float, machine cutting, leveling, jointing, filling the joints with neat cement, finishing, curing etc complete as directed by Engineer In Charge.	Sqm	3636
R2-CS-FL-51	Engraving the letters of sizes specified below in golden or any other approved colour on granite stone etc. complete as directed by Engineer In Charge.		
R2-CS-FL-51-a	Letters upto 30mm in any language as directed.	No.	33
R2-CS-FL-51-b	Letters above 30mm and upto 50mm in any language as directed.	No.	39
R2-CS-FL-51-c	Border line upto 12mm thk.	Rmt	224



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE
R2-CS-FL-52	Providing and fixing 20mm to 25 mm thk. polished white marble plaque of superior quality for inauguration of approved quality and pattern in dado including preparing the surface and levelling in the desired line, cement float, machine cutting, leveling, jointing, filling the joints with neat cement, finishing, curing etc complete as directed by Engineer In Charge.	Sqm	3838
R2-CS-FL-53	Engraving the letters of sizes specified below with black lead or any other approved colour on white marble stone etc. complete as directed by Engineer In Charge.		
R2-CS-FL-53-a	Letters upto 30mm in any language as directed.	No.	26
R2-CS-FL-53-b	Letters above 30mm and upto 50mm in any language as directed.	No.	52
R2-CS-FL-53-c	Border line upto 12mm thk.	Rmt	152
R2-CS-FL-54	Bare Polishing (non mirror) on marble work/ granite work/ stone work to give gloss finish including levelling the surface neat, cleaning etc. complete as directed by Engineer In Charge	Sqm	40
R2-CS-FL-55	Mirror Polishing on marble work/ granite work/ stone work to give high gloss finish including levelling the surface neat, cleaning etc. complete as directed by Engineer In Charge	Sqm	61
R2-CS-FL-56	Rounding the edge in quarter round shape of the stonework specified below including high gloss machine polishing as directed by Engineer In Charge. Shahbad stone/ Kadappa stone/ Tandur stone/ Kota stone/ Any type of marble/ Any type of Granite stone	Rmt	184
R2-CS-FL-57	Rounding the edge in half round shape of the stonework specified below including high gloss machine polishing as directed by Engineer In Charge. Shahbad stone/ Kadappa stone/ Tandur stone/ Kota stone/ Any type of marble/ Any type of Granite stone	Rmt	204
R2-CS-FL-58	Champhering the edge of the stone work specified below including high gloss machine polishing as directed by Engineer In Charge. Shahbad stone/ Kadappa stone/ Tandur stone/ Kota stone/ Any type of marble/ Any type of Granite stone	Rmt	76
R2-CS-FL-59	2 to 3mm wide and 3mm deep grooving on the stone work specified below as directed by Engineer In Charge. Shahbad stone/ Kadappa stone/ Tandur stone/ Kota stone/ Any type of marble/ Any type of Granite stone	Rmt	47



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE
R2-CS-FL-60	Providing and laying cement mortar or lime mortar of 1 : 4 respectively for cushioning of 40 mm. with cement float to receive any flooring viz. tiles, pavement etc. etc. complete as specific and as directed.	Sqm	407
R2-CS-FL-61	Providing and making wash basin counter in single piece of 18 mm to 20 mm thk. telephone black granite 600mm wide, fixed over 25 to 40 mm thk black Kadappa, sandwich type construction, by making zari, in walls upto 75 mm deep & fitting the wash basin by using M.S. bracket & filling the wall surface by C.M 1:3 etc.(M.S. bracket and wash basin will be paid seperately)	Rmt	2911
R2-CS-FL-62	Providing and fixing 8mm thk. vitrified tiles as specified below conforming to I.S. 15622-2006 with water absorbtion less than 0.08% and of approved quality, pattern and colour for dado in the wet area including preparing the surface and levelling in the desired line, backing of 20 thk. cement mortar in porportion 1:3 with approved waterproofing compound, square cut top edge or chamfered top edge in cement mortar 1:3, cement float, machine cutting, leveling, jointing, filling the joints with neat cement slurry or approved colour grout, finishing, curing etc complete as directed by Engineer In Charge. Light coloured glazed vitrified tiles/ Dark coloured glazed vitrified tiles/ Light coloured antiskid / matt vitrified tiles/ Dark coloured antiskid / matt vitrified tiles	Sqm	1675.00
R2-CS-FL-63	Providing and fixing 10mm thk. vitrified tiles as specified below conforming to I.S. 15622-2006 with water absorbtion less than 0.08% and of approved quality, pattern and colour for dado in the wet area including preparing the surface and levelling in the desired line, backing of 20 thk. cement mortar in porportion 1:3 with approved waterproofing compound, square cut top edge or chamfered top edge in cement mortar 1:3, cement float, machine cutting, leveling, jointing, filling the joints with neat cement slurry or approved colour grout, finishing, curing etc complete as directed by Engineer In Charge. Light coloured glazed vitrified tiles/ Dark coloured glazed vitrified tiles/ Light coloured antiskid / matt vitrified tiles/ Dark coloured antiskid / matt vitrified tiles	Sqm	1832.00



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE
R2-CS-FL-64	Providing and fixing 8mm thk. vitrified tiles as specified below conforming to I.S. 15622-2006 with water absorbtion less than 0.08% and of approved quality, pattern and colour for dado in the dry area including preparing the surface and levelling in the desired line, backing of 20 thk. cement mortar in porportion 1:3, square cut top edge or chamfered top edge in cement mortar 1:3, cement float, machine cutting, leveling, jointing, filling the joints with neat cement slurry or approved colour grout, finishing, curing etc complete as directed by Engineer In Charge. Light coloured glazed vitrified tiles/ Dark coloured glazed vitrified tiles/ Light coloured antiskid / matt vitrified tiles/ Dark coloured antiskid / matt vitrified tiles	Sqm	1672.00
R2-CS-FL-65	Providing and fixing 10mm thk. vitrified tiles as specified below conforming to I.S. 15622-2006 with water absorbtion less than 0.08% and of approved quality, pattern and colour for dado in the dry area including preparing the surface and levelling in the desired line, backing of 20 thk. cement mortar in porportion 1:3, square cut top edge or chamfered top edge in cement mortar 1:3, cement float, machine cutting, leveling, jointing, filling the joints with neat cement slurry or approved colour grout, finishing, curing etc complete as directed by Engineer In Charge. Light coloured glazed vitrified tiles/ Dark coloured glazed vitrified tiles/ Light coloured antiskid / matt vitrified tiles/ Dark coloured antiskid / matt vitrified tiles	Sqm	1829.00
R2-CS-FL-66	Providing and laying antibacterial tiles for flooring of an approved, quality, make and pattern /design for flooring in areas like hospitals, kitchens etx. including cement mortar bedding of 25 mm thick in 1:4 proportion, cutting, leveling, jointing, filling the joints by neat cement slurry or approved colour grout, curing, finishing etc complete as directed by Engineer In Charge.	Sqm	1510.00



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE
R2-CS-FL-67	<p>Substrate preparation: - Preparing the substrate by removing oil, grease, mould release agent and wax contaminants by scrubbing with industrial grade detergent or degreasing compounds followed by mechanical cleaning. Then, removing cement laitance and weak concrete by shot blasting or scarifying followed by vacuum cleaning for creating serrations for better bonding of floor topping Application of Ucrete MF:- Providing and applying UCRETE MF- 4mm thick other than Green& Blue Colour including scratch coat of Ucrete MF as per the manufacturer's specification etc. complete...</p>	Sqm	3352.00
R2-CS-FL-68	<p>Providing & applying of a 4 component, single layer, seamless, solvent-free, moisture insensitive, food-safe polyurethane concrete flooring system Ucrete UD200 of density of 2090 kg/cu. mtr to have a textured finish matching below mentioned performance properties:1. Abrasion resistance of SPECIAL class (class AR 0.5 - less than 0.05mm thickness loss) as per BS 8204 part 2 and weight loss of less than 300mg when tested with H22 wheels as per ASTM D 4060.2. Compressive Modulus 3250 Mpa, as per BS 6319 part 6 3. Tensile strength of 6 Mpa as per BS 6319 part 74. Flexural strength of 14Mpa as per EN 13892-25. Fire resistance classification of Bfl-S1 as per EN 13501-1:20026. Cleanable to standards of Stainless steelApplied at a thickness of 9mm over a 1mm scratch coat of Ucrete MF of the same material by an authorised applicator of the manufacturer in accordance to the application guideline as provided by the manufacturer.Note: The minimum grade of concrete required for laying Ucrete Flooring System shall be M25.</p>	Sqm	8890.00



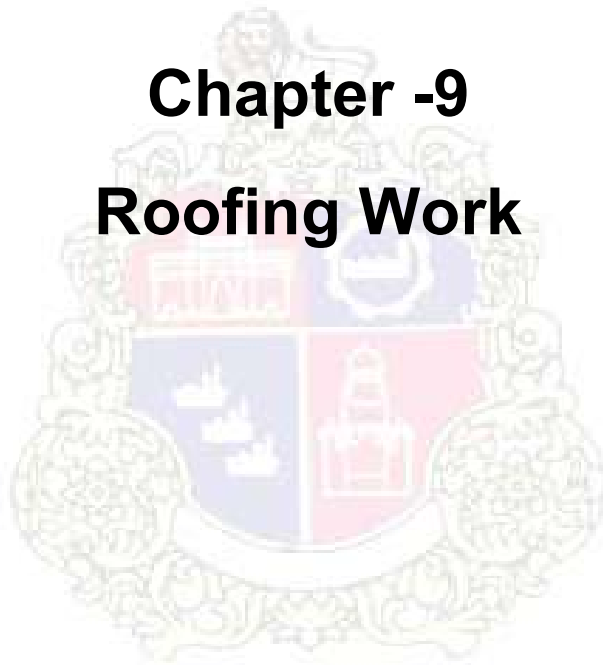
Buildings Schedule/ Common Schedule 2018
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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE
R2-CS-FL-69	Providing & applying of a 4 component, single layer, seamless, solvent-free, moisture insensitive, food-safe polyurethane concrete flooring system Ucrete UD200 of density of 2090 kg/cu. mtr to have a textured finish matching below mentioned performance properties:1. Abrasion resistance of SPECIAL class (class AR 0.5 - less than 0.05mm thickness loss) as per BS 8204 part 2 and weight loss of less than 300mg when tested with H22 wheels as per ASTM D 4060.2. Compressive Modulus 3250 Mpa, as per BS 6319 part 6 3. Tensile strength of 6 Mpa as per BS 6319 part 74. Flexural strength of 14Mpa as per EN 13892-25. Fire resistance classification of Bfl-S1 as per EN 13501-1:20026. Cleanable to standards of Stainless steelApplied at a thickness of 6mm over a 1mm scratch coat of Ucrete MF of the same material by an authorised applicator of the manufacturer in accordance to the application guideline as provided by the manufacturer.Note: The minimum grade of concrete required for laying Ucrete Flooring System shall be M25.	Sqm	6673.00
R2-CS-FL-70	Coving of 50mm: Providing & applying of a smooth 50mmx50mm coving at junctions of floor and wall using polyurethane concrete Ucrete RG and over coated with polyurethane Ucrete DP top coat including surface preparation.	Rmt	1898.00
R2-CS-FL-77	Providing and applying MasterSeal CR 460 which is a 2 component polyurethane sealant at construction joints of same colour as the floor matching the following performance parameters;1. Density – 1550 – 1600 kg/cu.mtrs2. Tensile Strength – 1.6-2.0 Mpa (ISO R527)3. Elongation at break – 205-32% (ISO R 527)4. Hardness (DIN 53505) Shore A – ca 80Including cutting the joints in Ucrete after curing and filling to size of 7mm x 5mm.	Rmt	633.00



Chapter -9

Roofing Work



Buildings Schedule/ Common Schedule 2018
Roofing Works

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-RW	ROOFING WORKS		
R2-CS-RW-01	Providing and fixing 20mm thick Mangalore tiles of approved make as roof including fixing in cement mortar (1:3) with necessary vatas and cement pointing, coloured with red or dammering etc. complete as directed.	Sqm	435
R2-CS-RW-02	Providing & laying on roof 20mm thick Mangalore tile ridge caps and /or hip sets on existing wooden or steel frame structure including fixing in cement mortar (1:3) with necessary vatas and cement pointing, coloured with red or dammering, etc complete as directed.	Rmt	234
R2-CS-RW-03	Providing and fixing country teak wood battens 50 mmx25 mm and placed about 250 mm C/C etc complete, as directed	Sqm	358
R2-CS-RW-04	Providing and fixing 6 mm thick Non-asbestos high impact Polypropylene reinforced cement corrugated sheet of approved make conforming to IS: 14871-2000 laying the same in position as per the stipulation in IS: 3007-1991 using 8m dia polymer coated iron L or J hook bolts, galvanized iron & bituminous washers, or self drilling fasteners and EPDM washers, galvanized iron clamps, nuts and bolts etc. complete and as directed. (Net Area covered by sheeting will be measured. Laps will not be paid separately)	Sqm	575
R2-CS-RW-05	Extra for straight cutting in non- asbestos polypropylene reinforced cement corrugated, semi-corrugated 6 mm thick sheet roofing for making openings of area not exceeding 0.5 square meter for chimney stacks, skylights etc. complete as directed.	No.	165
R2-CS-RW-06	Extra for circular cutting in non-asbestos polypropylene reinforced cement corrugated/semi-corrugated 6 mm thick sheet roofing for making openings of area not exceeding 0.50 square meter etc. complete as directed.	No.	343
R2-CS-RW-07	Providing and fixing non-asbestos fiber cement high impact polypropylene reinforced roofing accessories in all colours with polymer coated J or L hooks, bolts and nuts and or G.I. seam bolts and nuts, G.I. plain and bitumen washers or with self drilling fastener and EPDM washer etc. complete as directed.		
R2-CS-RW-07-a	Corrugated serrated adjustable ridges	Rmt	308
R2-CS-RW-07-b	Plain wing adjustable ridges	Rmt	372
R2-CS-RW-07-c	Close fitting adjustable ridges	Rmt	550
R2-CS-RW-07-d	Unserrated adjustable hips	Rmt	653
R2-CS-RW-07-e	Eave's filler pieces	Rmt	745
R2-CS-RW-07-f	North light curves	Rmt	885
R2-CS-RW-07-g	ventilator curves	Rmt	310
R2-CS-RW-07-h	Barge boards	Rmt	338



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-RW-07-i	Ridge finials	Pair	280
R2-CS-RW-07-j	Special north light curves	Rmt	829
R2-CS-RW-07-k	S type louvers	Rmt	349
R2-CS-RW-08	Providing and fixing in position UV resistant, fire retardant, virtually unbreakable and temperature resistant (-40° C to +130° C) Polycarbonate corrugated sheet of 2mm thickness for roof of approved make to match the roof profile at any height with G.I. J hooks bolts of G.I. clamps nuts & bolts or with self drilling fastener and EPDM washer etc. complete as directed.	Sqm	1473
R2-CS-RW-09	Providing and fixing single skin trapezoidal profiled sheeting 930 - 1020mm cover width 28-32 mm crests depth at 186-250 c/c (above 195 mm c/c crest distance there will be minimum 2 ribs at the centre for stiffening). The feed material shall be manufactured from AZ 150 (min. 150 gms/sq.mt total on both sides) Zincalume / Galvalume sheets of minimum yield strength of 550 MPa, 0.45 mm BMT, (0.5 mm TCT excluding paint coating thickness), metallic hot dip coated with Al-Zn alloy (55% Aluminium, 43.5% Zinc, 1.5% Si) as per AS 1397 / IS15961 & painted with Super Durable Polyester Colorbond steel XRW or equivalent quality paint system of approved color, suitable for exterior application conforming to AS/NZS 2728:2007 type-4 / IS15965:class3 of approved make. The sheet shall have a total coating thickness of 35 microns, super durable polyester paint system of 20 microns on exposed surface and 5 micron reverse polyester coat on back surface over 5 micron primer coat on both surfaces. The paint system shall have stable inorganic pigments for color durability. The product will be fastened using no.12-14x55 mm (or as per design requirement), mechanically coated with 25 micron Zn-Sn alloy or hot dipped zinc coated with min 40 micron hex self-drilling fasteners with EPDM washer of approved make confirms to AS3566:2002 class 3.		
R2-CS-RW-09-a	Bare Galvalume/zincalume sheets for roofing	Sqm	516
R2-CS-RW-09-b	Colour Coated Galvalume/zincalume sheets for cladding	Sqm	524
R2-CS-RW-09-c	Colour Coated Galvalume/zincalume Flashings and Cappings 600mm wide	Rmt	336
R2-CS-RW-09-d	Colour Coated Galvalume/zincalume Crimp Curve up to 900mm wide	Rmt	471
R2-CS-RW-09-e	Colour Coated Galvalume/Zincalume ridge.	Rmt	373
R2-CS-RW-09-f	Colour Coated Galvalume/Zincalume Barge Board	Rmt	336
R2-CS-RW-10	Removing Existing Mangalore tiles / AC / GI / Galvalume Sheets/polycarbonate plain and corrugated sheets from roof / cladding / partitions etc., excluding supporting structure but including scaffolding, handling, transporting, sorting and stacking at site lead up to 150m and or disposing etc complete as directed.	Sqm	98



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-RW-11	Refixing existing material after sorting and cleaning, removed from the existing structure as discribed in Item no. R2-CS-RW-10 using 8m dia polymer coated iron L or J hook bolts, galvanized iron & bituminous washers, or self drilling fastners and EPDM washers, galvanized iron clamps, nuts and bolts including sealing the existing holes with suitable material etc. complete and as directed. (Net Area covered by sheeting will be measured. Overlaps will not be paid separately)	Sqm	155
R2-CS-RW-12	Supplying, fabricating, transporting to site and erecting 3.12mm thick MS gutter with all necessary supporting arrangement laid to proper slope, at all heights and levels, including surface cleaning, Grinding and removing the welding burr and applying one coats of red oxide zinc chromate primer and two coats of synthetic enamel paint on underside before erection & one coat of rubberized waterproof paint on upper side after erecting including making necessary connections with rain water pipes etc complete as directed.		
R2-CS-RW-12-a	Girth upto 600mm	Rmt	1087
R2-CS-RW-12-b	Girth from 601 to 800mm	Rmt	1245
R2-CS-RW-12-c	Girth from 801 to 1000mm	Rmt	1386
R2-CS-RW-12-d	Girth from 1001 to 1200mm	Rmt	1535
R2-CS-RW-13	Galvanised iron sheet 1 mm (20 B.W.G.) eaves precoated gutter 200 mm to 230 mm wide and 100 mm to 125 mm deep moulded or half round girth upto 600mm including iron rods, on the edges (throughout the length) and galvanised iron sheet ferrules with fixtures, for outlets wherever required clamped using W.I. clamp 38 mm x 3 mm fixed 1.0 m C/C including making necessary connections with rain water pipes etc complete and as directed.	Rmt	820
R2-CS-RW-14	Galvanised iron sheet 0.8 mm (22 B.W.G.) eaves precoated gutter 200 mm to 230 mm wide and 100 mm to 125 mm deep moulded or half round girth up to 600mm including iron rods, on the edges (throughout the length) and galvanised iron sheet ferrules with fixtures, for outlets wherever required clamped using W.I. clamp 38 mm x 3 mm fixed 1.0 m C/C including making necessary connections with rain water pipes etc complete and as directed.	Rmt	711
R2-CS-RW-15	Providing and fixing box type precoated gutter of width 350 mm and depth 250 mm clear inside, made of 22 gauge G.I.sheets with socket type opening on top to receive ferrules from longitudinal truss gutters and ferrules at end, with all the fixtures and fastenings, gutters to be supported on M.S. flat hangers 750 MM C/C which are fixed on top as directed and laid to proper slope, as specified including making necessary connections with rain water pipes etc complete and as directed. (Rate includes cost of hangers, the fixing charges, 3 coats of synthetic enamel paint, and welding if required).	Rmt	1325



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-RW-16	Providing and fixing UV resistant selffit UPVC pipes of approved make for Rainwater downtakes confirming to IS 13592:1992 Type A suitable for 4kg/sqcm pressure for following pipe diameters including rain water receiving recess with pvc plug bend necessary fittings such as offsets shoes, fixing the pipes on wall with clips filling the joints with solvent/cement and necessary scaffolding etc. complete as directed by Engineer In Charge.		
R2-CS-RW-16-a	75mm dia	Rmt	246
R2-CS-RW-16-b	100mm dia	Rmt	406
R2-CS-RW-16-c	150mm dia	Rmt	756
R2-CS-RW-16-d	200mm dia	Rmt	373
R2-CS-RW-17	Supplying and Fixing 75 mm internal dia. 3.5 mm thk. (weight approx. 6.66 Kg./Rm.) centrifugally cast C. I. pipes Confirming to IS 3989, sockets spigots type pipe for rain water/soil waste and ventilation with all fittings including scffolding, 1 : 1 CM jointing proper embedding and fixing on wall & column etc complete as directed.	Rmt	1367
R2-CS-RW-18	Supplying and Fixing 100 mm internal dia. 4.0 mm thk. (weight approx. 10.0 Kg./Rm.) centrifugally cast C. I. pipes Confirming to IS 3989, sockets spigots type pipe for rain water/soil waste and ventilation with all fittings including scffolding, 1 : 1 CM jointing proper embedding and fixing on wall & column etc complete as directed.	Rmt	1671
R2-CS-RW-19	Supplying and Fixing 150 mm internal dia. 5.0 mm thk. (weight approx. 18.66 Kg./Rm.) centrifugally cast C. I. pipes Confirming to IS 3989, sockets spigots type pipe for rain water/soil waste and ventilation with all fittings including scffolding, 1 : 1 CM jointing proper embedding and fixing in wall & column etc complete as directed.	Rmt	3001
R2-CS-RW-20	Providing and fixing 0.6mm thk Colour Galvalume 90mm Square pipe for Rainwater down takes including all fittings etc complete as directed.	Rmt	1180
R2-CS-RW-21	Providing and fixing polycarbonate multiple wall sheet roofing 16mm thick gauge of approved make UV coated of approved make and of approved colour and with aluminium framing for fixing polycarbonate sheet using pressure plates with EPDM gasket (compatible to polycarbonate) breather tape, screws and covering the pressure plates complete and making the entire system water tight by using sealant as per architectural drawings and specification.(Rate does not include cost of structural steel framing which will be paid seperately)	Sqm	4398



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-RW-22	Providing and fixing polycarbonate multiple wall sheet roofing 20mm thick gauge of approved make UV coated of approved make and of approved colour and with aluminium framing for fixing polycarbonate sheet using pressure plates with EPDM gasket (compatible to polycarbonate) breather tape, screws and covering the pressure plates complete and making the entire system water tight by using sealant as per architectural drawings and specification.(Rate does not include cost of structural steel framing which will be paid separately)	Sqm	5007
R2-CS-RW-23	Providing and fixing polycarbonate top seam panel sheet roofing 16mm thick gauge of approved make UV coated of approved make and of approved colour and breather tape, screws complete and making the entire system water tight as per architectural drawings and specification.(Rate does not include cost of structural steel framing which will be paid separately)	Sqm	6157
R2-CS-RW-24	Providing and fixing polycarbonate top seam panel sheet roofing 20mm thick gauge of approved make UV coated of approved make and of approved colour and breather tape, screws complete and making the entire system water tight as per architectural drawings and specification.(Rate does not include cost of structural steel framing which will be paid separately)	Sqm	7442
R2-CS-RW-25	Providing & fixing UV stabilised fiberglass reinforced plastic sheet roofing up to any pitch, including fixing with polymer coated 'J' or 'L' hooks, bolts & nuts 8mm dia. G.I plain/bitumen washers complete but excluding the cost of purlins, rafters, trusses etc. The sheets shall be manufactured out of 2400 TEX panel rovigs incorporating minimum 0.3% ultra-violet stabiliser in resin system under approximately 2400 psi and hot cured. They shall be of uniform pigmentation and thickness without air pockets and shall conform to IS 10192 and IS 12866.The sheets shall be opaque or translucent, clear or pigmented, textured or smooth as specified. (1.50 mm thick coloured F.R.P. corrugated sheet)	Sqm	786
R2-CS-RW-26	Providing corrugated G.I. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.		
R2-CS-RW-26-a	0.63 mm thick GI corrugated sheet with zinc coating not less than 275 gm/m ²	Sqm	360
R2-CS-RW-26-b	0.8 mm thick GI corrugated sheet with zinc coating not less than 275 gm/m ²	Sqm	360
R2-CS-RW-26-c	1.0 mm thick GI corrugated sheet with zinc coating not less than 275 gm/m ²	Sqm	368



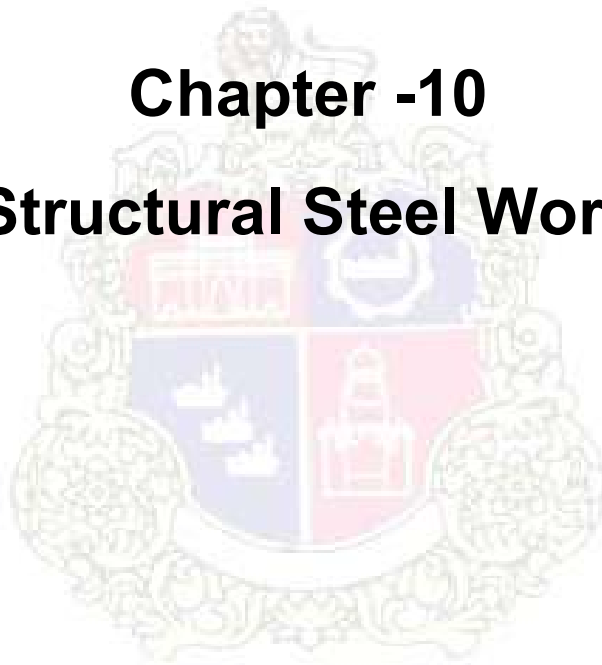
Buildings Schedule/ Common Schedule 2018
Roofing Works

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-RW-27	Providing ridges or hips of width 60 cm overall width plain G.S. sheet fixed with polymer coated J or L hooks, bolts and nuts 8 mm dia G.I. limpet and bitumen washers complete.		
R2-CS-RW-27-a	0.63 mm thick GI corrugated sheet with zinc coating not less than 275 gm/m ²	Sqm	648
R2-CS-RW-27-b	0.8 mm thick GI corrugated sheet with zinc coating not less than 275 gm/m ²	Sqm	656
R2-CS-RW-27-c	1.0 mm thick GI corrugated sheet with zinc coating not less than 275 gm/m ²	Sqm	671



Chapter -10

Structural Steel Work



Buildings Schedule/ Common Schedule 2018
Structural Steel Works

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-SS	STRUCTURAL STEEL WORKS		
R2-CS-SS-01	Providing, detailing, fabricating and fixing at desired location using hot rolled sections and MS Plates of grade Fe 250 as per specifications and approved fabrication drawings (which are to be prepared by Contractor and got approved from Engineer), transporting to site and erecting structural steel members for all heights & at all levels including provision of necessary erection bolts, fixing bolts, nuts, washers, cleats, stiffeners, gussets, base plate, and all necessary fixtures and operations like preheating as per specifications, straightening, bending, cutting, drilling, grinding, machining if specified, welding, grinding and removing the welding burr and preparing surface for painting with wire brush cleaning and applying two coats of epoxy red oxide zinc phosphate primer of 30 microns each and two coats of Epoxy Corrosion Resistant Enamel paint of 30 microns after fabrication including touching up with spray painting after erection etc complete as directed by Engineer In Charge. (The qty. for this item shall be measured for gusset plates, base plates, bolts in M.T.)	MT	80088
R2-CS-SS-02	Providing, detailing, fabricating and fixing built up sections at desired location using MS Plates of grade Fe 250 as per specifications and approved fabrication drawings (which are to be prepared by Contractor and got approved from Engineer), erecting structural steel members for all heights & at all levels including provision of necessary erection bolts, fixing bolts, nuts, washers, cleats, stiffeners, gussets, base plate, and all necessary operations like preheating as per specifications, straightening, bending, cutting, drilling, grinding, machining if specified, welding, grinding and removing the welding burr and preparing surface for painting with wire brush cleaning and applying two coats of epoxy red oxide zinc phosphate primer of 30 microns each and two coats of Epoxy Corrosion Resistant Enamel paint of 30 microns after fabrication including touching up with spray painting after erection etc complete as directed by Engineer In Charge.	MT	80216
R2-CS-SS-03	Providing, detailing, fabricating and fixing erecting GI cold formed sections (GSM 120 Min), conforming to the physical specifications of ASTM A-607 (Grade 50) having minimum yield strength of 345 N/mm ² and as per specifications and approved fabrication drawings (which are to be prepared by Contractor and got approved from Engineer) for all heights & at all levels including transportation of the same to site, erection, provision of necessary erection bolts, fixing bolts, nuts, washers, cleats, and all necessary operations like straightening, cutting, drilling as specified, welding, cleaning, grinding and removing the welding burr etc. complete as directed by Engineer In Charge.	MT	65795



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-SS-04	Providing, detailing, composite fabricating members like Trusses, N-girders, girders, bracings, supports, purlins, runners, and similar structural steel members fabricated using M.S. hollow tubular steel sections (circular & rectangular pipes), of TATA Structura Make or equivalent conforming to IS 1239 part 1 and 2 and of grade Fe 250 as per specifications and approved fabrication drawings (which are to be prepared by Contractor and got approved from Engineer), including transportation of the same to site, erection of structural steel members for all heights & at all levels, provision of necessary erection bolts, fixing bolts, nuts, washers, cleats, stiffeners, gussets, base plate, and all necessary operations like preheating as per specifications, straightening, bending, cutting, drilling, grinding, machining if specified, welding, grinding, removing the welding burr and preparing surface for painting with wire brush cleaning and applying two coats of epoxy red oxide zinc phosphate primer of 30 microns each and two coats of Epoxy Corrosion Resistant Enamel paint of 30 microns after fabrication including touching up with spray painting after erection etc complete as directed by Engineer	MT	82427
R2-CS-SS-05	Providing and Fixing of Foundation Bolts and nuts in RCC column / pedestal / beam at any level including maintaining the accuracy towards line, level & position including making and using the template etc. complete as directed by Engineer In Charge. (Contractor will take due care for its threads and rusting by applying grease and cotton waste.	MT	271126
R2-CS-SS-06	Providing and fixing the Mechanical Anchor Fasteners as specified below of Hilti Make or equivalent confirming to IS 1367 (Part 3) at required locations and level including drilling the hole, cleaning and anchoring the bolt as per manufacturers specifications etc. complete as directed by Engineer In Charge.		
R2-CS-SS-06-a	M8 x 115	Nos	55
R2-CS-SS-06-b	M10 x 110	Nos	60
R2-CS-SS-06-c	M12 x 115	Nos	65
R2-CS-SS-06-d	M16 x 140	Nos	73
R2-CS-SS-06-e	M20	Nos	124
R2-CS-SS-07	Providing and fixing the Chemical Anchor Fasteners as specified below of Hilti Make or equivalent confirming to IS 1367 (Part 3) at required locations and level including drilling the hole, cleaning with blow pump and anchoring the bolt with chemical as per manufacturers specifications etc. complete as directed by Engineer In Charge.		
R2-CS-SS-07-a	M10 x 90 foil capsule (HVU) & M10 x 130 Rod	Nos	207
R2-CS-SS-07-b	M12 x 110 foil capsule (HVU) & M12 x 160 Rod	Nos	320
R2-CS-SS-07-c	M16 x 125 foil capsule (HVU) & M16 x 190 Rod	Nos	425
R2-CS-SS-07-d	M20 x 170 foil capsule (HVU) & M20 x 240 Rod	Nos	578
R2-CS-SS-07-e	M24 x 210 foil capsule (HVU) & M24 x 290 Rod	Nos	684



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-SS-08	Providing, detailing, fabricating and fixing at desired location using M.S. chequered Plates of any thickness and of grade Fe 250 as per specifications and approved fabrication drawings (which are to be prepared by Contractor and got approved from Engineer), including transporation of the same to site, erection at all heights and levels, provision of necessary erection bolts, fixing bolts, nuts, washers, cleats, stiffeners, and all necessary operations like preheating as per specifications, straightening, bending, cutting, drilling, grinding, machining if specified, welding, grinding and removing the welding burr and preparing surface for painting with wire brush cleaning and applying two coats of epoxy red oxide zinc phosphate primer of 30 microns each and two coats of Epoxy Corrosion Resistant Enamel paint of 30 microns after fabrication including touching up with spray painting after erection etc complete as directed by Engineer In Charge.	MT	83713
R2-CS-SS-09	Providing and fixing G.I. barbed wire fencing of 14 guage having 2 ply and 4 points at 75 mm c/c in the rows and with vertical supports as specified below embedded 0.45 m in the concrete block of size 0.3x0.3x0.5m, and 1.55m above the same spaced at 2.5 m c/c with inclined stays of the same material at 20 m c/c fixed in M15 grade cement concrete base block having dimension 0.3 x 0.3 x 0.5 m, including cross wires in each bay, necessary excavation, backfilling and curing etc. complete as directed by Engineer In Charge.		
R2-CS-SS-09-a	With MS Angle 45 x 45 x 6 mm including painting with one coat of anti-corrosive paint, and two coats of approved enamel paint. and 10 rows of Barbed wire.	Rmt	784
R2-CS-SS-09-b	With MS Angle 40 x 40 x 6 mm including painting with one coat of anti-corrosive paint, and two coats of approved enamel paint. and 8 rows of Barbed wire	Rmt	706
R2-CS-SS-09-c	With coal tarred jungle wood ballies of 100 – 125 mm diameter as specified and 10 rows of Barbed wire.	Rmt	424
R2-CS-SS-09-d	With coal tarred jungle wood ballies of 100 – 125 mm diameter as specified and 8 rows of Barbed wire.	Rmt	404
R2-CS-SS-10	Providing and fixing G.I. barbed wire fencing 10 rows of 14 guage having two ply four points at 75 mm c/c fixed on RCC poles made of M20 grade concrete embedded 0.5m in M15 grade cement concrete block of size 0.45 x 0.45 x 0.5 m at 2.5m c/c below finished ground level and 1.55 m above the same including inclined stays at every 20 m embedded in the concrete block of the concrete grade M15, cross wire in each bays, necessary excavation, backfilling, curing etc. complete as directed by Engineer In Charge. (The size of concrete pole shall be 0.10 m x 0.10 m. at top and 0.125 m x 0.125 m. at bottom having 2.05 m height. The concrete stays shall be of the same size and having length 2.43 m erected 45 degree angle fixed at the topmost wire)	Rmt	680



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-SS-11	Providing and fixing G.I. barbed wire fencing 8 rows of 14 guage having two ply four points at 75 mm c/c fixed on RCC poles made of M20 grade concrete embedded 0.5m in M15 grade cement concrete block of size 0.45 x 0.45 x 0.5 m at 2.5m c/c below finished ground level and 1.55 m above the same including inclined stays at every 20 m embedded in the concrete block of the concrete grade M15, cross wire in each bays, necessary excavation, backfilling, curing etc. complete as directed by Engineer In Charge. (The size of concrete pole shall be 0.10 m x 0.10 m. at top and 0.125 m x 0.125 m. at bottom having 2.05 m height. The concrete stays shall be of the same size and having length 2.43 m erected 45 degree angle fixed at the topmost wire)	Rmt	510
R2-CS-SS-12	Providing and fixing 750mm dia concertina barbed razeer type coil of 19mm wide ribbon with thickness 5 SWG and central core wire of 12 SWG with anti rust coating, supported over 5 rows of barbed wires of 14 SWG having two ply four points at 75 mm c/c, fixed to Y shape angle bracket placed at 2.5m c/c (leg of Y should be 0.51 m long and 0.23 m embedded in concrete, wing of Y should be 0.475 m long having a distance of 0.58 m between the two wing on the top) made up of 50mm x 6 mm M.S. angle embedded in cement concrete bed block of size 300mm x 300mm x 300mm. The concertina coil should be fixed to angle with M.S. Flat 25mm x 5mm thick on both the sides as runner all steel work shall be applied with one coat of red oxide zinc chromate primer and two coat of Synthetic Enamel paint etc. complete as directed by Engineer In Charge.	Rmt	514
R2-CS-SS-13	Supplying, fabricating, transportation to site and Fixing Galvanized Chain Link Fencing of 10 gauge G.I. Mesh, sizes 50 x 50 mm diamond pattern, fixed 75 mm below finished ground level / coping, including providing and erecting ISA 50x50x6 angle posts @ 2.5m C/C with cross support at every 8th pole & at corners and 2 nos 6mm dia MS bars at top and bottom with necessary U hooks, nuts and bolts, washers, total height of fencing @ 2.0m above ground including embedding the angle post in concrete block of 0.45m x 0.45m x 0.6m of cement concrete M15 grade including necessary excavation, and cleaning, preparing the surface, applying one coat of red oxide zinc chromate primer and two coats of Synthetic Enamel paint of approved manufacture, brand, colour, shade etc. complete as directed by Engineer In Charge. (first coat of synthetic enamel paint after fabrication and second coat after erection including touching up the primer coat)	Sqm	957
R2-CS-SS-14	Providing and fixing G.I. crimped wire mesh of required openings of size 25 mm x25 mm or of any size with main and cross wires of 10 gauge approved type as per manufacture's specifications with necessary fittings including painting with one coat of red oxide zinc chromate primer and two coats of approved synthetic enamel paint etc. complete as directed by Engineer In Charge. (Iron works will be paid separately. The clear visible area of the wire mesh exclusive overlap will be paid for).	Sqm	1081



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-SS-15	Providing, detailing, and fabricating as per specifications, transporting to site and erecting MS Openable / Sliding / Ornamental Entrance Gates including track and wheel, locking arrangement, fixing bolts, nuts, washers, cleats, stiffeners, gussets decorative balusters, arrow heads etc. and all necessary operations like straightening, bending, cutting, drilling, grinding, machining if specified, welding etc. complete weighing 25 to 30 kg/Sqm, including cleaning, Grinding and removing the welding burr and preparing surface and applying one coat of red oxide zinc chromate primer and one coat of Synthetic Enamel paint after fabrication and second coat of Synthetic Enamel paint after erection, with approved colour, shade and brand etc. including touching up with primer etc. complete as directed by Engineer In Charge.	Sqm	3740
R2-CS-SS-16	Providing, detailing, and fabricating as per specifications, transporting to site and erecting MS Openable / Sliding / Ornamental Entrance Gates including track and wheel, locking arrangement, fixing bolts, nuts, washers, cleats, stiffeners, gussets decorative balusters, arrow heads etc. and all necessary operations like straightening, bending, cutting, drilling, grinding, machining if specified, welding etc. complete weighing 60 to 65 kg/Sqm, including cleaning, Grinding and removing the welding burr and preparing surface and applying one coat of red oxide zinc chromate primer and one coat of Synthetic Enamel paint after fabrication and second coat of Synthetic Enamel paint after erection, with approved colour, shade and brand etc. including touching up with primer etc. complete as directed by Engineer In Charge.	Sqm	7834
R2-CS-SS-16-a	Providing, detailing, and fabricating as per specifications, transporting to site and erecting Openable Entrance Gates fabricated using B Class GI Hollow pipes including track and wheel, locking arrangement, fixing bolts, nuts, washers, cleats, stiffeners, gussets and all necessary operations like straightening, bending, cutting, drilling, grinding, machining if specified, welding etc. complete weighing 18 to 20kg/Sqm, including cleaning, Grinding and removing the welding burr and preparing surface and applying one coat of red oxide zinc chromate primer and one coat of Synthetic Enamel paint after fabrication and second coat of Synthetic Enamel paint after erection, with approved colour, shade and brand etc. including touching up with primer etc. complete as directed by Engineer In Charge.	Sqm	3201
R2-CS-SS-17	Providing, fabricating and fixing 1.0m high Cast Iron hand railing including decorative studs at regular interval, painting with one coat of red oxide zinc chromate primer and two coats of synthetic enamel paint etc complete as directed by Engineer In Charge.	Rmt	1873
R2-CS-SS-18	Providing, fabricating, welding and fixing 1.0m high MS pipe hand railing, weight 10 to 12 kg per Rmt including all necessary fixtures, holdfasts, supports and painting with one coat of red oxide zinc chromate primer and two coats of approved synthetic enamel paint etc complete as directed by Engineer In Charge.	Rmt	983



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-SS-19	Providing, fabricating M.S. ornamental railing of simple geometrical design weighing as specified below with country teak wood moulded hand rail 10 cm x 5 cm with winders and newel posts complete if required with 3 coats of french polish or synthetic enamel paint, fixing the M.S. railing securely in floor, wall etc. as directed by Engineer In Charge.		
R2-CS-SS-19-a	M.S. ornamental railing weighing 10 kg to 15 kg per sqmt.	Sqm	1710
R2-CS-SS-19-b	M.S. ornamental railing weighing above 15 kg and upto 20 kg per sqmt.	Sqm	2029
R2-CS-SS-19-c	M.S. ornamental railing weighing above 20 kg and upto 25 kg per sqmt.	Sqm	2348
R2-CS-SS-20	Providing and Fixing decorative Teak wood moulded hand rail of 100mm x 50mm cross section supported over 1.0m high railing fabricated using 12mm Sq MS Bar placed about 100mm c/c vertically and 50mm x 5mm MS Flat at top and bottom including applying one coat of red oxide zinc chromate primer and two coat of Synthetic Enamel paint to Iron work and three coats of melamine polish to wood work, fixing the assembly with anchore fastners or plumbing nails to floor or wall as may be required etc complete as directed by Engineer In Charge.	Rmt	2647
R2-CS-SS-21	Providing and Fixing decorative PVC moulded hand rail supported over 1.0m high railing fabricated using 12mm Sq MS Bar placed about 100mm c/c vertically and 50mm x 5mm MS Flat at top and bottom including applying one coat of red oxide zinc chromate primer and two coat of Synthetic Enamel paint to Iron work and three coats of melamine polish to wood work, fixing the assembly with anchore fastners or plumbing nails to floor or wall as may be required etc complete as directed by Engineer In Charge.	Rmt	2512
R2-CS-SS-22	Providing, detailing, and fabricating as per specifications, transporting to site and erecting M.S. ladder using hot rolled sections, hollow pipes (Hollow pipes conforming to IS 1239 part 1 and 2) including, fixtures and fastenings, cleats, stiffeners, gussets, etc. and all necessary operations like straightening, bending, cutting, drilling, grinding, machining if specified, welding, removing the welding burr, cleaning etc., fixing in cement concrete block of grade M15, and preparing surface, applying one coat of red oxide zinc chromate primer and one coat of Synthetic Enamel paint after fabrication and second coat of synthetic enamel paint after erection, with approved colour, shade and brand etc. complete as directed by Engineer In Charge.	Kg	120
R2-CS-SS-23	Providing, detailing, and fabricating as per specifications, transporting to site and erecting ladder / railing using stainless steel hollow pipes of grade 304 including, S.S. fixtures and fastenings, cleats, stiffeners, gussets etc. and all necessary operations straightening, bending, like cutting, drilling, welding, grinding and removing the welding burr, machining if specified, finishing, cleaning etc. complete as directed by Engineer In Charge.	Kg	707
R2-CS-SS-24	Providing and fixing M. S. black pipes for columns, including base plate & cap plate 6 mm. thick foundation bolts, nuts, etc., complete with 3 coats of approved synthetic paint etc., complete as directed. Pipes shall be of Tata or equivalent make. Dia of pole 75 mm. 'B' class.	Rmt	939



Buildings Schedule/ Common Schedule 2018
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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-SS-25	Providing and fixing M. S. black pipes for columns, including base plate & cap plate 6 mm. thick foundation bolts, nuts, etc., complete with 3 coats of approved synthetic paint etc., complete as directed. Pipes shall be of Tata or equivalent make. Dia of pole 50 mm. 'C' class	Rmt	831
R2-CS-SS-26	Providing and fixing M. S. black pipes for columns, including base plate & cap plate 6 mm. thick foundation bolts, nuts, etc., complete with 3 coats of approved synthetic paint etc., complete as directed. Pipes shall be of Tata or equivalent make. Dia of pole 75 mm. 'C' class	Rmt	1034
R2-CS-SS-27	Providing and fixing M. S. black pipes for columns, including base plate & cap plate 6 mm. thick foundation bolts, nuts, etc., complete with 3 coats of approved synthetic paint etc., complete as directed. Pipes shall be of Tata or equivalent make. Dia of pole 150 mm. 'B' class.	Rmt	1742
R2-CS-SS-28	Providing and fixing M. S. black pipes for columns, including base plate & cap plate 6 mm. thick foundation bolts, nuts, etc., complete with 3 coats of approved synthetic paint etc., complete as directed. Pipes shall be of Tata or equivalent make. Dia of pole 150 mm. 'C' class	Rmt	1875
R2-CS-SS-29	Providing & fixing G. I. corrugated sheet door of size 0.76 m. x 1.9 m. with G. I. sheet shutter of 22 gauge and G. I. sheet box frame of 18 gauge filled with 1 : 2 : 4 cc. including all fixtures i. e. aldrops, tadi, tower bolt, hold fast, handle, hinges including painting etc. complete as directed.	Rmt	2527
R2-CS-SS-30	Providing and fixing structural Profile decking sheet as per particular specification, with GI sheet, zinc coating not less than 275 GSM as per IS 277 and of yield strength 500 Mpa of approved make with specified Base Metal Thickness. The profile shall be structural decking profile having ribs & pitch as per the drawing referred with the embossments (shear groove) on top and side of the ribs for better composite action. The decking sheet shall be fabricated to required form as per the slab design and fixed with Galvanised Iron fasteners, self drilling screws, shear studs as per IS 1367, connectors etc. complete as per design, drawing and direction of Engineer-in-Charge. (Refer typical drwg). Plan area of the sheeting shall be measured and paid for. Structural steel frame work, reinforcement steel and concrete shall be paid separately.		
R2-CS-SS-30-a	With Base Metal Thickness (BMT) (excluding Zinc coat thickness) 1.00 mm thick Profile decking sheet .	Sqm	1052
R2-CS-SS-30-b	With Base Metal Thickness (BMT) (excluding Zinc coat thickness) 1.20 mm thick Profile decking sheet.	Sqm	1254
R2-CS-SS-30-c	With Base Metal Thickness (BMT) (excluding Zinc coat thickness) 1.60 mm thick Profile decking sheet.	Sqm	1,440



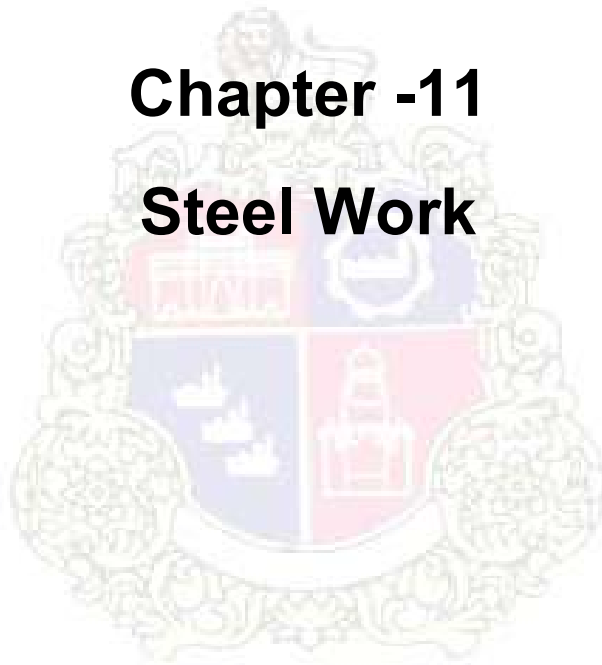
Buildings Schedule/ Common Schedule 2018
Structural Steel Works

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-SS-30-d	Providing and fixing structural Profile decking sheet as per particular specification, with GI sheet, zinc coating not less than 275 GSM as per IS 277 and of yield strength 500 Mpa of approved make with specified Base Metal Thickness. The profile shall be structural decking profile having ribs & pitch as per the drawing referred with the embossments (shear groove) on top and side of the ribs for better composite action. The decking sheet shall be fabricated to required form as per the slab design and fixed with Galvanised Iron fasteners, self drilling screws, shear studs as per IS 1367, connectors etc. complete as per design, drawing and direction of Engineer-in-Charge. (Refer typical drwg). The sheet shall be filled with 75mm thick M25 grade concrete reinforced with 8mm dia. HYSD bars placed 150mm C/C both ways. Plan area of the sheeting shall be measured and paid. Structural steel frame work shall be paid separately. With Base Metal Thickness (BMT) (excluding Zinc coat thickness) 1.00 mm thick Profile decking sheet .	Sqm	1720



Chapter -11

Steel Work



Buildings Schedule/ Common Schedule 2018
Steel Works

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-SL	STEEL WORKS		
R2-CS-SL-01	Providing and fixing fully openable type side hung M.S. windows or Ventilator as per IS:1038-1983, IS:7452-1990 made out of outer frame weighing 1.42 kg/cm, vertical dividing member weighing 2.28 kg/cm, glazing member weighing 0.88 kg/m, coupling mullion weighing 1.896 kg/m, Guard bar 12 mm square at 125 m c/c, plain / frosted / tinted glass of 4 mm thickness shall be fixed with approved quality putty. Rate should include providing and fixing box hinge MS sliding locking ball, including steel frame fitted with pegs, hinges, stay rods, fastening, holdfasts embedded in cement concrete grade M15, painting with one coat of red oxide zinc chromate primer and two coats of synthetic enamel paint etc. complete as directed by Engineer In Charge.	Sqm	2387
R2-CS-SL-02	Providing and fixing M.S. windows or ventilator Top Hung type as per IS:1038-1983, IS:7452-1990 made out of outer frame weighing 1.42 kg/cm, vertical dividing member weighing 2.28 kg/cm, glazing member weighing 0.88 kg/m, coupling mullion 1.896 kg/m, Guard bar 12 mm square at 125 m c/c, plain / frosted / tinted glass of 4 mm thickness shall be fixed with approved quality putty. Rate should include providing and fixing box hinge MS sliding locking ball, including steel frame fitted with pegs, hinges stay rods fastenings, holdfasts embedded in cement concrete grade M15, painting with one coat of red oxide zinc chromate primer and two coats of synthetic enamel paint etc. complete as directed by Engineer In Charge.	Sqm	2387
R2-CS-SL-03	Providing and fixing M.S. windows or ventilator Centrally Pivoted type as per IS:1038-1983, IS:7452-1990 made out of outer frame weighing 1.42 kg/cm, vertical dividing member weighing 2.28 kg/cm, glazing member weighing 0.88 kg/m, coupling mullion 1.896 kg/m, Guard bar 12 mm square at 125 m c/c, plain / frosted / tinted glass of 4 mm thickness shall be fixed with approved quality putty. Rate should include providing and fixing box hinge MS sliding locking ball, including steel frame fitted with pegs, hinges stay rods fastenings, holdfasts embedded in cement concrete grade M15, painting with one coat of red oxide zinc chromate primer and two coats of synthetic enamel paint etc. complete as directed by Engineer In Charge.	Sqm	2387
R2-CS-SL-04	Providing and fixing in position collapsible steel gates with vertical channels 20 x 10 x 2 mm & braced with flat iron diagonals 20 x 5 mm size, top & bottom T section 40 x 40 x 6 mm size, 30 mm steel pulleys complete with bolts-nuts, locking arrangements, stoppers, handles and painting with one coat of red oxide zinc chromate primer and two coats of synthetic enamel paint including all labour, materials, tools and equipments, etc complete as directed by Engineer Incharge.	Sqm	7493



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Steel Works

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-SL-05	Providing and fixing rolling shutters made out of 18 gauge steel sheets for curtains, including bottom rail, 100 mm wide guide channels for opening width up to 4.0m and 150mm wide guide channel for opening width more than 4.0m, lock plates, locking arrangement on both sides, fixing bolts, pulling handles, MS hood of appropriate size, rolling arrangement, standard make springs in brackets etc. including fixing of frames with rag bolts, grouting of parts in position etc. and also including two coats of red oxide zinc chromate primer and two coats of synthetic enamel paint of approved colour, shade and brand etc. complete as per IS:6248 / specifications and as directed by Engineer In Charge. The shutter should withstand wind pressure of 47meters per second.	Sqm	3534
R2-CS-SL-06	Extra over item R2-CS-SL-05, for providing ball bearing wherever required and directed etc complete.	Nos	266
R2-CS-SL-07	Extra for providing mechanical device for operating rolling shutters.	Nos	792
R2-CS-SL-08	Extra for providing grilled rolling shutters manufactured out of 8 mm dia. M.S. bar instead of laths as per design approved by Engineer-incharge. (area of grill to be measured).	Sqm	315
R2-CS-SL-09	Extra for Electrically operated (motorised) with switch & cable	Sqm	2375
R2-CS-SL-10	Providing and fixing fly proof galvanised M.S. wire mesh to windows having average width of aperture as 1.4 mm in both directions & dia. Of wire as 0.63 mm including 2nd class teak wood beading of size 62X19 mm etc complete as directed by Engineer In Charge.	Sqm	670
R2-CS-SL-11	Extra for providing and fixing iron beading instead of putty in channel shape of size 6 mm x 1.5 mm etc Complete as directed.	Rmt.	44
R2-CS-SL-12	Providing and Fixing MS Safety grill of weight specified below for windows as per design including fabricating the grill using M.S. square / round bar, flats and angles including painting with one coat of red oxide zinc chromate primer and two coats of synthetic enamel paint of approved colour and brand etc complete as directed.		
R2-CS-SL-12-	Grill weighing 10 to 15 kg / sqm	Sqm	2021
R2-CS-SL-12-	Grill weighing 15 to 20 kg / sqm	Sqm	2425
R2-CS-SL-12-	Grill weighing 20 to 25 kg / sqm	Sqm	2828
R2-CS-SL-12-	Grill weighing 25 to 30 kg / sqm	Sqm	3231
R2-CS-SL-13	Providing and Fixing Decorative / Ornamental grills as per design for compound wall / Fencing including fabricating the grill using M.S. square / round bar, flats and angles including painting with one coat of red oxide zinc chromate primer and two coats of synthetic enamel paint of approved colour and brand etc. complete as directed.	Kg	184



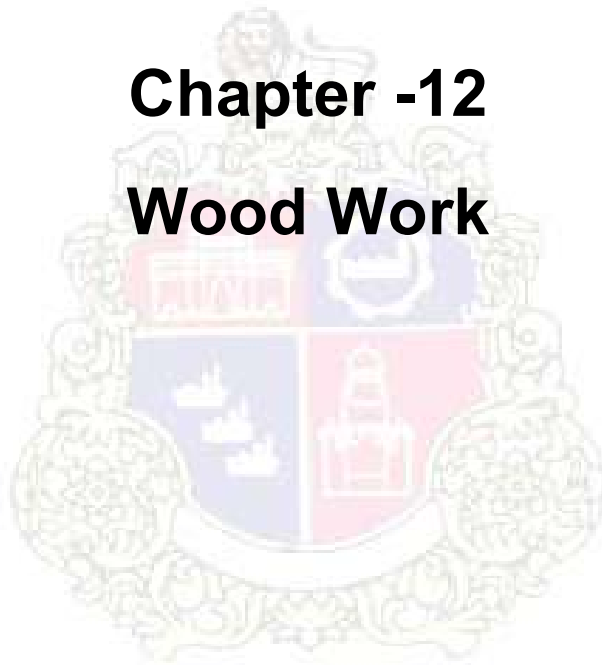
Buildings Schedule/ Common Schedule 2018
Steel Works

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-SL-14	Providing, fabricating and fixing M.S. grill work as per approved design and as per weight specified below to fencing / compound made out of square / round bars, M.S. flats, angles, with necessary holdfast including painting with one coat of red oxide zinc chromate primer and two coats of approved synthetic enamel paint etc. complete as directed by Engineer In Charge.		
R2-CS-SL-14-	Mild steel grill of weight 10 to 15 Kg/sq. m.	Sqm	2037
R2-CS-SL-14-	Mild steel grill of weight 15 to 20 Kg/sq. m.	Sqm	2306
R2-CS-SL-14-	Mild steel grill of weight 20 to 25 Kg/sq. m.	Sqm	2576



Chapter -12

Wood Work



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-WW	WOOD WORKS			
R2-CS-WW-01	Providing and fixing best quality C.P. Teak wood frame for doors, windows and ventilators size greater than 50mm x 50mm including intermittent supports if required, all moulding, rebating, jointing, hold fasts of MS flats of minimum size 25 x 3 mm, having length of 225 mm for doors & 150 mm for windows and finishing with 3 coats of French polish or one coat of primer and synthetic enamel paint in two coats as directed etc. complete as directed.	Cum	76096	** **
R2-CS-WW-02	Providing and fixing best quality C.P. Teak wood frame for doors, windows and ventilators size Less than or upto 50mm x 50mm including intermittent supports if required, all moulding, rebating, jointing, hold fasts of MS flats of minimum size 20 x 3 mm, having length of 150 mm and finishing with 3 coats of French polish or one coat of primer and synthetic enamel paint in two coats as directed etc. complete as directed.	Cum	115185	** **
R2-CS-WW-03	Providing and applying water proof (melamine) polishing to the new or old wood work in two coats including knotting, preparing the surface by scrapping, scaffolding etc. complete as directed.	Sqm	95	
R2-CS-WW-04	Providing & applying readymade wax polish to the new or old work in two coats including knotting, preparing the surface by scrapping, scaffolding etc. complete as directed.	Sqm	145	
R2-CS-WW-05	Providing and fixing superior quality factory made single or double leaf Phenol Bonded solid core flush door shutters commercial type hot pressed conforming to IS:2202 (Part I,II) 1991 including 12 mm thk teak wood lipping all around with one coat of primer, putty and 2 coats of synthetic enamel paint on both faces etc. complete as directed. (Hinges, aldop & standard door hardware to be paid separately)			
R2-CS-WW-05-a	25mm thick shutter	Sqm	1436	
R2-CS-WW-05-b	30mm thick shutter	Sqm	1533	
R2-CS-WW-05-c	35mm thick shutter	Sqm	1712	
R2-CS-WW-05-d	40mm thick shutter	Sqm	1862	
R2-CS-WW-06	Providing and fixing superior quality single leaf B.W.P. grade solid core flush door shutters of standard make conforming to IS:2202-1991 (Part I & II) including one coat of primer, putty and 2 coats of synthetic enamel paint on both faces etc. with 12 mm thk teak wood lipping all around all around etc. complete (Hinges, aldop & standard door hardware to be paid separately)			
R2-CS-WW-06-a	25mm thick shutter	Sqm	1683	
R2-CS-WW-06-b	30mm thick shutter	Sqm	2056	



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-WW-06-c	35mm thick shutter	Sqm	2131	
R2-CS-WW-06-d	40mm thick shutter	Sqm	2354	
R2-CS-WW-07	Extra for providing and fixing 3mm thk. veneer with three coats of french polishing instead of synthetic enamel painting including all material and labour.	Sqm	900	
R2-CS-WW-08	Providing and fixing 40mm thick Phenol Bonded solid core flush door shutters for sliding or 'Sliding and folding' door, commercial type hot pressed with 3mm thick veneer on both faces as per design conforming to IS:2202- 1991 (Part I & II) with 3 coats of French polishing, with 12mm thick T.W. lipping all around as per detailed specifications including sliding and folding door system as approved by MCGM, gear with necessary track, brackets, and all necessary special fittings as per manufacturer's specifications complete as directed. (Hinges, aldorp & standard door hardware to be paid separately)	Sqm		
R2-CS-WW-08-a	30mm thick shutter	Sqm	4839	
R2-CS-WW-08-b	40mm thick shutter	Sqm	4839	
R2-CS-WW-09	Providing and fixing 35mm thick T.W. panelled shutters for sliding and folding doors including sliding and folding door system as approved by MCGM, gear with necessary track, brackets, and all necessary special fittings as per manufacturer's specifications . The width of Top rail and styles shall be 100mm, Bottom rail shall be of 200mm and lock rail shall have width of 150mm including all moulding rebating joinery and finishing with three coats of French polish or one coat of primer and synthetic enamel paint in two coats etc complete as directed. (Infill panels, Hinges, aldorp & standard door hardware to be paid separately)	Sq.M.	4219	
R2-CS-WW-10	Providing & applying Polyurethane based wood coating to the new or old work in two coats including knotting, preparing the surface by scrapping, scaffolding etc. complete as per manufacturers specifications and as directed.	Sqm	204	
R2-CS-WW-11	Providing and fixing 38 mm x 12mm thick teak wood decorative cover moulding around frame of doors, windows and cupboards etc. completed as directed.	Rm	142	
R2-CS-WW-12	Providing and fixing 38 mm x 20mm thick teak wood decorative cover moulding around frame of doors, windows and cupboards etc. completed as directed.	Rm	156	
R2-CS-WW-13	Providing and fixing vision panel of size 300mm x 300mm in any type of door with 6mm thick glass including T.W. beading etc. complete as directed bt Engineer in charge.	No.	254	



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-WW-14	Providing and fixing country wood single dhapa shutter of 20 mm thk. and 125 mm to 150 mm wide tongue and grooved planks with 15 mm thick and double Z battens and 15mm thk. and 150 mm wide lock rail including country wood frame of section size 100 mm X 75 mm, approved C.P. / iron oxidized fixtures and fastening, hooks, eyes and necessary accessories, painting with one coat of primer and two coats of synthetic enamel paint of approved make and colour etc. complete as directed by Engineer in charge.	Sqm	6691	
R2-CS-WW-15	Providing and fixing country wood single dhapa shutter of 20 mm thk. and 125 mm to 150 mm wide tongue and grooved planks with 15 mm thick and double Z battens and 15mm thk. and 150 mm wide lock rail including 25 mm thick glazed fanlight with 4mm thk. glass, country wood frame of section size 100 mm X 75 mm, approved C.P. / iron oxidized fixtures and fastening, hooks, eyes and necessary accessories, painting with one coat of primer and two coats of synthetic enamel paint of approved make and colour etc. complete as directed by Engineer in charge.	Sqm	6769	
R2-CS-WW-16	Providing and fixing superior quality factory made phenol bonded solid core single leaf flush commercial door shutter of thickness as mentioned below and of approved make conforming to IS: 2202 (Part I, II) with 12mm thk. teak wood lipping all around, 3mm thk. commercial veneer on external face with three coats of french polish and 150mm x 60 mm or 125 mm x 75 mm C.P. teak wood frame without fanlight including, approved fixtures and fastening hooks, eyes, screws and painting the frame and interior side with one coat of primer, putty and two coats of synthetic enamel paint of approved make and colour etc. complete as directed by Engineer in charge.			
R2-CS-WW-16-a	25mm thick shutter	Sq.M.	6739	
R2-CS-WW-16-b	30mm thick shutter	Sq.M.	6823	
R2-CS-WW-16-c	35mm thick shutter	Sq.M.	6979	
R2-CS-WW-16-d	40mm thick shutter	Sq.M.	7109	
R2-CS-WW-17	Providing and fixing superior quality factory made phenol bonded solid core single leaf flush commercial door shutter of thickness as mentioned below and of approved make conforming to IS: 2202 (Part I, II) with 12mm thk. teak wood lipping all around, 3mm thk. commercial veneer on external face with three coats of french polish and 150mm x 60 mm or 125 mm x 75 mm C.P. teak wood frame with glazed fanlight with 4mm thk. glass including bright finished or black enameled mild steel butt hinges, approved fixtures, fastening, hooks, eyes, screws and painting the frame and interior side with one coat of primer, putty and two coats of synthetic enamel paint of approved make and colour etc. complete as directed by Engineer in charge.			



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-WW-17-a	25mm thick shutter	Sq.M.	6802	
R2-CS-WW-17-b	30mm thick shutter	Sq.M.	6883	
R2-CS-WW-17-c	35mm thick shutter	Sq.M.	7032	
R2-CS-WW-17-d	40mm thick shutter	Sq.M.	7157	
R2-CS-WW-18	Providing and fixing superior quality factory made phenol bonded solid core double leaf flush commercial door shutter of thickness as mentioned below and of approved make conforming to IS: 2202 (Part I, II) with 12mm thk. teak wood lipping all around, 3mm thk. commercial veneer on external face with three coats of french polish and 150mm x 60 mm or 125 mm x 75 mm C.P. teak wood frame without fanlight including including bright finished or black enameled mild steel butt hinges, approved fixtures, fastening, hooks, eyes, screws and painting the frame and interior side with one coat of primer, putty and two coats of synthetic enamel paint of approved make and colour etc. complete as directed by Engineer in charge.			
R2-CS-WW-18-a	25mm thick shutter	Sq.M.	8297	
R2-CS-WW-18-b	30mm thick shutter	Sq.M.	8381	
R2-CS-WW-18-c	35mm thick shutter	Sq.M.	8536	
R2-CS-WW-18-d	40mm thick shutter	Sq.M.	8666	
R2-CS-WW-19	Providing and fixing superior quality factory made phenol bonded solid core double leaf flush commercial door shutter of thickness as mentioned below and of approved make conforming to IS: 2202 (Part I, II) with 12mm thk. teak wood lipping all around, 3mm thk. commercial veneer with three coats of french polish on external face and 150mm x 60 mm or 125 mm x 75 mm C.P. teak wood frame with glazed fanlight fanlight with 4mm thk. glass including bright finished or black enameled mild steel butt hinges, approved fixtures, fastening, hooks, eyes, screws and painting the frame and interior side with one coat of primer, putty and two coats of synthetic enamel paint of approved make and colour etc. complete as directed by Engineer in charge.			
R2-CS-WW-19-a	25mm thick shutter	Sq.M.	8650	
R2-CS-WW-19-b	30mm thick shutter	Sq.M.	8731	
R2-CS-WW-19-c	35mm thick shutter	Sq.M.	8880	
R2-CS-WW-19-d	40mm thick shutter	Sq.M.	9005	



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-WW-20	Providing & fixing double skin partition comprised of framing of GYPSteel Building System including 76 mm wide floor track (0.55 mm BMT having equal flanges of 32 mm each) fixed to floor by Hilti/ Fischer hammer fix. as well as Gypsteel Deflection head floor track of 76 mm wide (0.75 mm BMT having equal flanges of 50 mm each) fixed to MS structure (provided by others) by means of appropriate fixings as per the standards. Then Gypsteel stud section of 76 mm wide (0.75 mm BMT having one flange of 34 mm and another flange of 36 mm) is screw fixed into floor/ceiling channel at every 610 mm c/c. using appropriate screws as per industry Standard These stud section are kept 10 mm shorter to take care of deflection in the structural member as per Gypsteel Building System with either of following material complete as directed by Engineer In Charge.			
R2-CS-WW-20-g	Add for 4mm thick decorative veneer (Type - I) conforming to IS 1328 BWP Grade with 3 coats of matching French polish as directed.	Sqm	1195	
R2-CS-WW-21	Providing & Fixing False Ceiling comprising of following material including fixing in galvanized steel sections with white color coated cap comprised of main tee 34 mm x 24 mm (heavy duty as per ASTM C - 635 standard tested) with pre-punched cross tee slots (at every 100 mm c/c) to be placed at 1200 mm c/c, suspended with 4 mm GI (TATA MAKE) straightened wire at every 1.2 mtr, other end of the wire provided with GI J hook & nut. All the false ceiling panels around the perimeter of the false ceiling & around the RCC columns shall rest on the perimeter G.I. molding of size 19 mm x 19 mm which is fixed to the walls with help of rawal plug & GI screw at the same level as false ceiling. The cross tee of 1200 mm length (26 mm x 24 mm wide Heavy duty) shall be locked in main tee at every 600 mm c/c. to form grid of 600 x 1200 mm. Further 600 mm long tee need to be locked in to 1200 mm tee to make the final grid of 600 mm X 600 mm, including making provision for cutouts and / or trap door for electrical and mechanical systems, etc complete as directed by Engineer In charge.			
R2-CS-WW-21-a	With Armstrong Orcal Lay in metal ceiling System consisting of 600x600mm Lay in tiles of pre coated galvanised steel in 0.5/0.4 mm thickness in white colour with standard perforation of 2.5mm dia & open area of 16%. The back of the tile should have black acoustical fleece with NRC of 0.70 & CAC 36 with life time warrantee against sag in module size 595 mm X 595 mm at required height above FFL.	Sqm	1894	***
R2-CS-WW-21-b	With India Gypsum PVC laminated 9.5 mm thk 'POLYSHIELD' tiles having metal polyester backing with Humidity Resistance of 99% RH, Average NRC 0.55, dncw 34dB, Light Reflectance >80%, Thermal Conductivity k = 0.052 – 0.057 w/m□c, Colour White, Fire Performance Class 0/Class 1 (BS - 476) with life time warrantee against sag in module size 595 mm X 595 mm X 9 mm thick at required height above FFL.	Sqm	1511	



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-WW-21-c	With Armstrong Acoustical Suspended Ceiling System with Fine Fissured Tiles having (Board / Regular) edges. The tiles should have Humidity Resistance of 99% RH, Average NRC 0.55, dncw 34dB, Light Reflectance >80%, Thermal Conductivity k = 0.052 – 0.057 w/m ² °c, Colour White, Fire Performance Class 0/Class 1 (BS 476) with life time warrantee against sag in module size 595 mm X 595 mm X 9 mm thick at required height above FFL.	Sqm	1486	***
R2-CS-WW-22	Providing and fixing false ceiling with eco-friendly light weight calcium silicate tiles of Spintone/cosmos surface textured "Aerolite " make or equivalent of size 595 x 595mm having 15 mm thick densified microlook edge and 100% humidity resistance, incombustible as per BS 476 Part IV and thermal conductivity 0.043 w/m ² °C and NRC 0.50 placed in true horizontal level suspended grid of size 600x600 mm made from hot dipped GI steel sections on Sillhouette profile, rotary stitched double webbed white with 6mm reveal profile (white/black), where in main T runner of size 24 mm x 38mm and 0.33 mm thick @ 1200mm center to center and cross T of size 24mm X 28 mm and 0.33 mm thick, 1200 mm long spaced between main tee at 600 mm centre to centre and secondary cross T of Size 24mm X 28 mm x 0.33 thick of length 600 mm to be inter locked at middle of the first cross T in each panel to form grids of 600 mm x 600 mm and resting on periphery wall profile wall section 24 mm x 24mm x 0.40 thickness and laying false ceiling for services like diffusers grills including cutting, making opening for light fitting, fixtures, smoke detectors etc. wherever required, main tee runner to be suspended from ceiling using G.I. soffit cleats of size 25 x 35 x 1.6 mm of required length fixed to the ceiling with 12.5mm dia and 50 mm long dash fastener, 4 mm dia G.I adjustable rods with good quality G.I level adjustment clips of 85 X 30 X 0.8mm spaced at 1200 mm center to center along main tee all complete at all heights as per specifications, drawings and as per direction of Engineer - in - Charge.	Sqm	1902	***
R2-CS-WW-23	Providing and fixing trap door in the Gypsum board / POP ceiling system for electrical and mechanical utilities with 18mm thk. plywood shutter and 12mm thk. teak wood lipping all around including wooden / G.I. frame with supports, fixtures, fastenings etc. complete as directed.	Sqm	6440	
R2-CS-WW-24	Providing and applying French polishing to the new or old wood work in two coats including knotting, preparing the surface by scrapping, scaffolding etc. complete as directed.	Sqm	327	
R2-CS-WW-28	Providing and Fixing Fully Glazed double shutter automatic Door Opening having following features Slim line modern Design Australian Made Designed for new standards Compact modular motor Design High security electric locking No exposed wiring Energy Efficient Electronics Lock 600 VA UPS	Sqm	17573	

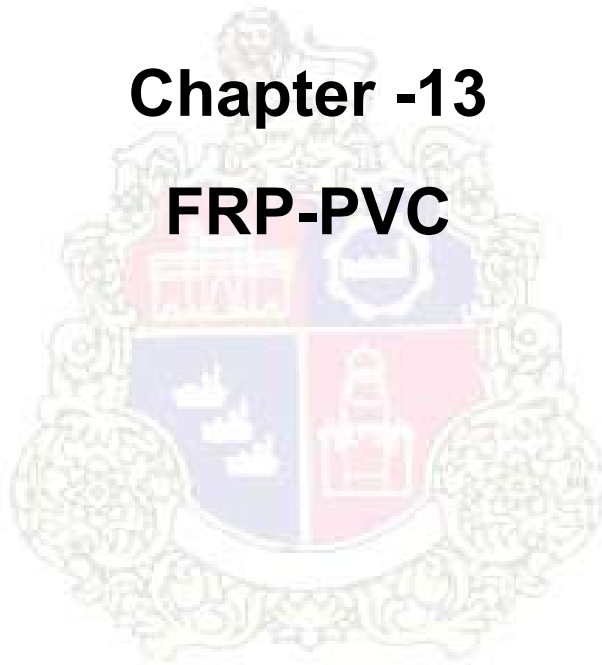


ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-WW-29	P/F 1W frame fully glazed door with shutters with full swing (180 degrees) fixed with double spring hinge with fixed glazed portions on top and side of the openable portion.	Sqm	3865	
R2-CS-WW-30	Providing and applying at all levels approved silicone sealant at the junction of wall and ventilators or windows as directed, wherever required or instructed by the Engineer etc. complete as specified in manufacturers specifications and directed.	Litre	320	
R2-CS-WW-31	Providing and fixing fire doors with 2 hour fire rating conforming to IS: 3614 (Part 2), BS 476 (Parts 20 & 22), ISO 834 ; 45 mm thick fully flush, double skin door shell with lock seam joints at stile edges made from 1.25 mm thick galvanized steel sheet including door frames made from 1.6 mm thick galvanized steel sheet formed to double rebate profile of size 143 mm x 57mm as per manufacturer's instructions, door frames and shutter primed with Zinc Phosphate stoving Primer and finished with Polyurethane Aliphatic grade or epoxy paint including ironmongery consisting of stainless steel ball bearing butt hinges 3 mm thick fixed flush to the frame and shutter, full width horizontal handles (panic bar), concealed flush bolts, door closers, other standard fixtures and fasteners, etc. complete for the following clear opening sizes:	Sqm	24564	
	Item to include all necessary fixtures and fastenings [fire rated] including heavy duty SS hinges min 4 per shutter, tower bolts, door stoppers, handles, mortise lock, push plates, kick plates, door closers, etc. Complete.			
	Single leaf shutter without glass vision panel.			



Chapter -13

FRP-PVC



Buildings Schedule/ Common Schedule 2018
FRP-PVC WORKS

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-PV	FRP-PVC WORKS		
R2-CS-PV-01	Providing and fixing Fiber Glass Reinforced plastic (FRP) Door Frames of cross-section 90mm x 45mm having rebates of 32mm x 15mm size to receive shutter of 30mm thickness. The laminate shall be moulded with fire resistant grade unsaturated polyester resin and chopped mat. Door frame laminate shall be 2mm thick and shall be filled with suitable wooden block in the frame. The frame shall be covered with fiberglass from all sides. M.S. stay shall be provided at the bottom to steady the frame etc. complete as directed.	Rmt	587
R2-CS-PV-02	Providing and fixing to frames 30 mm thick Fibre Glass Reinforced Plastic (FRP) panelled / extruded profiled door shutter of approved colour, brand and manufacture, made with fire - retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate for forming hollow rails and styles, with wooden frame and suitable blocks of seasoned wood inside at required places for fixing of fittings, cast monolithically with 5mm thick FRP laminate for panels conforming to IS: 14856 - 2000 etc complete as directed.	Sqm	2382
R2-CS-PV-03	Providing and Fixing to frames 30mm thick Fiber glass Reinforced Plastic (F.R.P.) flush door shutter in different plain and wood finish made with fire retardant grade unsaturated polyester resin, moulded to 3mm thick FRP laminate all around, with suitable wooden blocks inside at required places for fixing of fittings and polyurethane foam (PUF) / Polystyrene foam to be used as filler material throughout the hollow panel, casted monolithically with testing parameters of F.R.P. laminate conforming to table - 3 of IS: 14856 : 2000 etc complete as directed.	Sqm	3169
R2-CS-PV-04	Providing and fixing factory made UPVC door frame of extruded section having an overall dimension as below (tolerance ± 1 mm) with wall thickness $2.0\text{mm} \pm 0.2\text{mm}$, corners of the door frame to be Jointed with galvanized brackets and stainless steel screws, joints mitered and Plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19mm and $1\text{mm} \pm 0.1\text{mm}$ wall thickness and 3 nos. stainless steel hinges fixed to the frame as per manufacturers specification etc. complete as directed.		
R2-CS-PV-04 (i)	Extruded section profile size 48x40 mm.	Rmt	145
R2-CS-PV-04 (ii)	Extruded section profile size 42x50 mm.	Rmt	140



Buildings Schedule/ Common Schedule 2018
FRP-PVC WORKS

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-PV-05	Providing and fixing 24 mm thick factory made PVC door shutters made of styles and rails of a UPVC hollow section of size 59x24 mm and wall thickness 2 mm \pm 0.2 mm with inbuilt edging on both sides. The styles and rails mitred and joined at the corners by means of M.S. galvanised/plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm \pm 0.1 mm wall thickness. The lock rail made up of 'H' section, a UPVC hollow section of size 100x24 mm and 2 mm \pm 0.2 mm wall thickness fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a UPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm \pm 0.1 mm wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, as per manufacturer's specification etc. complete as directed. (For W.C. and bathroom door shutter).	Sqm	1548
R2-CS-PV-06	Providing and fixing 25mm thick PVC flush door shutters made out of a one piece Multi chamber extruded PVC section of the size of 762mm X 25mm or less as per requirement with an average wall thickness of 1mm \pm 0.3mm. PVC foam end cap of size 23x10mm are provided on both vertical edges to ensure the overall thickness of 25mm. An M.S. tube having dimensions 19mm x 19mm is inserted along the hinge side of the door. Core of the door shutter should be filled with high density Polyurethane foam. The Top & Bottom edges of the shutter are covered with an end-cap of the size 25MM X 11MM. Door shutter shall be reinforced with special polymeric reinforcements as per manufactures' specification and direction of Engineer-in-charge to take up necessary hardware and fixtures. Stickers indicating the locations of hardware will be pasted at appropriate places etc. complete as directed.	Sqm	1405
R2-CS-PV-07	Providing and fixing factory made P.V.C. door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet mitred at corners and joined with 2 Nos. of 150mm long brackets of 15x15mm M.S. square tube, the vertical door profiles to be reinforced with 19x19mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100mm size as per manufacturers specification etc. complete as directed.	Rmt	146



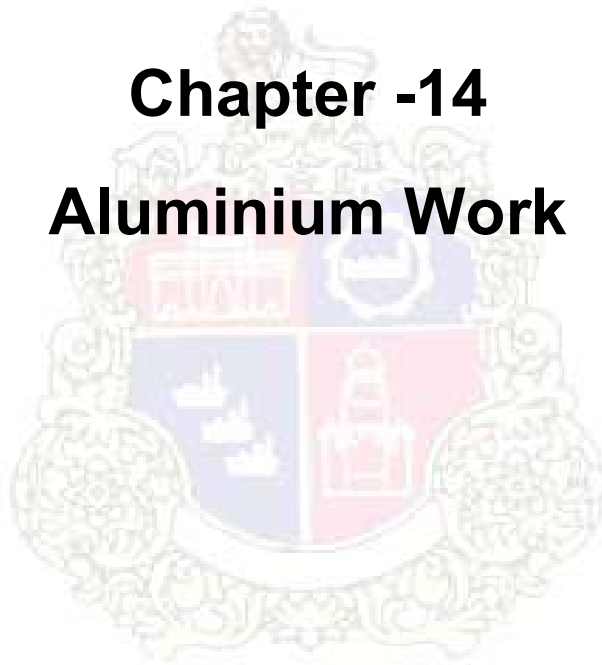
Buildings Schedule/ Common Schedule 2018
FRP-PVC WORKS

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-PV-08	Providing and fixing 30mm thick factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19mm x 19mm for styles and 15x15mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture . M.S. frame covered with 5mm thick heat moulded PVC 'C' channel of size 30mm thickness, 70mm width out of which 50mm shall be flat and 20mm shall be tapered in 45degree angle on either side forming styles; and 5mm thick, 95mm wide PVC sheet out of which 75mm shall be flat and 20mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115mm wide PVC sheet out of which 75mm shall be flat and 20mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided either side of the panel. 10mm (5mm x 2) thick, 20mm wide cross PVC sheet to be provided as gap insert for top rail & bottom rail. panof 5mm thick both side PVC sheet to be fitted in the M.S. frame welded/ sealed to the styles & rails with 7mm (5mm+2mm) thick x 15mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5mm thick PVC strip of 20mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete as per Manufacturer's specification, drawing and as directed. (for W.C. and bathroom door shutter).	Sqm	1805
R2-CS-PV-09	Providing and fixing 30mm thick factory made solid both side Pre-laminated panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19mm x 19mm for styles and 15x15mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture. M.S. frame covered with 5mm thick heat moulded Pre-laminated PVC 'C' channel of size 30mm thickness, 70mm width out of which 50mm shall be flat and 20mm shall be tapered i. e. on either side forming styles; and 5mm thick, 95mm wide PVC sheet out of which 75mm shall be flat and 20mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115mm wide PVC sheet out of which 75mm shall be flat and 20mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided either side of the panel. 10mm (5mm x 2) thick, 20mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail. paneling of 5mm thick both side Pre-laminated PVC sheet to be fitted in the M.S. frame welded/ sealed to the styles & rails with 7mm (5mm+2mm) thick x 15mm wide PVC sheet beading on inner side, and joined together with solvent cement	Sqm	4828
R2-CS-PV-10	Providing and fixing factory made solid P.V.C. foam door frame of size 60x30mm conforming to shore hardness 70 with supporting bar at bottom ends including holdfast, necessary special fastenings etc. complete as directed.	Rmt	174
R2-CS-PV-11	Providing and fixing 30mm thick factory made solid both side Pre-laminated paneled PVC door shutter consisting naturally strong stiffener frame and sandwich panelled to offer sound and heat insulation with pressure laminate / infill panels with scratch resistance surface etc. complete as directed.	Sqm	2700



Chapter -14

Aluminium Work



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs.)
R2-CS-AW	ALUMINIUM WORKS		
R2-CS-AW-01	Providing and fixing in position two track aluminum window of extruded modular and anodized aluminum sections of approved make and of size 61.85 mm x 45.5 mm x 1.3 mm thk (wt 1.055 kg/Rm) for bottom, 61.85 mm x 31.75 mm x 1.3 mm thk. (wt 0.659 kg/Rm) for top & sides, mounted on anodized aluminum rectangular frame of size 63mm x 38mm x 2.0mm(1.054). The shutter comprising of bearing bottom and top of size 40mm x 18 mm x 1.25 mm thk (wt. 0.417 Kg/Rm) Interlocking section of size 40mm x 26,7 mm x 1.10 mm thk. (Wt. 0469 kg./Rm) and hand sides of 40mm x 18mm x 1.25 mm thk (wt. 0.417kg/Rm) with 5 mm thick plain / frosted / tinted glass fixed in shutter including approved quality neoprene gasket, fixtures, fastenings and accessories like PVC rollers, PVC weep holes, locks, handles etc. complete as directed by Engineer In Charge. (Note: anodic film must not be less than 15 microns i.e. AC-15 as per IS, the anodizing must be scaleted by keeping the anodized section in boiling de-anodized water for a period of one hour)	Sqm	5266
R2-CS-AW-02	Providing and fixing in position three track aluminum window of extruded modular and anodized aluminum sections of approved make and of size 92 mm x 45.5 mm x 1.5 mm thk (wt 1.659 kg/Rm) for bottom and 92 mm x 31.75 mm x 1.3 mm thk. (wt 0.933 kg/Rm) for top and sides mounted on anodized aluminum rectangular frame of size 100mm x 40mm x 1.3mm.(Wt 0.976 kg/m) The shutter comprising of bearing bottom and top of size 40mm x 18 mm x 1.25 mm thk (wt. 0.417 Kg/Rm) Interlocking section of size 40mm x 26.7 mm x 1.10 mm thk. (Wt. 0.469 kg./Rm) and hand sides of 40mm x 18mm x 1.25 mm thk (wt. 0.417kg/Rm) with 5 mm thick plain / frosted / tinted glass fixed in shutter including approved quality neoprene gasket, fixtures, fastenings and accessories like PVC rollers, PVC weep holes, locks, handles etc. complete as directed by Engineer In Charge. (Note: anodic film must not be less than 15 microns i.e. AC-15 as per IS, the anodizing must be scaleted by keeping the anodized section in boiling de-anodized water for a period of one hour)	Sqm	5227
R2-CS-AW-03	Providing and fixing in position four track aluminum window of extruded modular and anodized aluminum sections of approved make and of size 122.2 mm x 45.5 mm x 1.3 mm thk (wt 1.829 kg/Rm) for bottom and 122.2 mm x 31.75 mm x 1.2 mm thk. (wt 1.093 kg/Rm) for top and sides mounted on anodized aluminum rectangular frame of size 127mm x 25.4mm x 1.3mm(1.052 kg/m) The shutter comprising of bearing bottom and top of size 40mm x 18 mm x 1.25 mm thk (wt. 0.417 Kg/Rm) Interlocking section of size 40mm x 26.7 mm x 1.10 mm thk. (Wt. 0469 kg./Rm) and hand sides of 40mm x 18mm x 1.25 mm thk (wt. 0.417kg/Rm) with 5 mm thick plain / frosted / tinted glass fixed in shutter including approved quality neoprene gasket, fixtures, fastenings and accessories like PVC rollers, PVC weep holes, locks, handles etc. complete as directedby Engineer In Charge. (Note: anodic film must not be less than 15 microns i.e. AC-15 as per IS, the anodizing must be scaleted by keeping the anodized section in boiling de-anodized water for a period of one hour)	Sqm	5258
R2-CS-AW-04	Providing and fixing in position aluminum louvered window with anodised aluminum frame of approved make and of size 40mm x 20mm x 2.0mm (wt. 0.605 kg/Rm) including adjustable aluminum frame, 4 to 6mm thk. frosted glass, fixtures and fastenings etc. complete as directed by by Engineer In Charge.	Sqm	4246
R2-CS-AW-05	Providing and fixing in position Top/side hung window of extruded modular and anodised aluminum sections of approved make and of size 38.10 mm x 25.40 mm x 1.44 mm thk (wt. 0.471 kg/Rm) for outer rectangular tube, 40 mm x 31.5 mm x 1.5 mm (wt. 0.549 kg/Rm) for outer frame, 40 mm x 31.50 mm x 1.50 mm thk (wt. 0.502 kg/Rm) for central mullion, 40 mm x 31.50 mm x 1.50 mm thk (wt. 0.549 kg/Rm) for shutter and 16.50 mm x 14.50 mm x 1.20 mm thk (wt. 0.157 kg/Rm) for glazing clip with 5 mm thick plain / frosted / tinted glass fixed in shutter including neoprene gasket, fixtures, fastenings and accessories like hinges, locking arrangement etc. complete as directed by Engineer In Charge. (Note: anodic film must not be less than 15 microns i.e. AC-15 as per IS, the anodizing must be scaleted by keeping the anodized section in boiling de-anodized water for a period of one hour)	Sqm	7645
R2-CS-AW-06	Providing and fixing in position side hung window with friction hinges, made up of extruded modular and anodised aluminum section of approved make and of size 38.10 mm x 25.40 mm x 1.44 mm thk (wt. 0.471 kg/Rm) for outer rectangular tube, 40 mm x 31.5 mm x 1.5 mm (wt. 0.549 kg/Rm) for outer frame, 40 mm x 31.50 mm x 1.50 mm thk (wt. 0.502 kg/Rm) for central mullion, 40 mm x 31.50 mm x 1.50 mm thk (wt. 0.549 kg/Rm) for shutter frame and 16.50 mm x 14.50 mm x 1.20 mm thk (wt. 0.157 kg/Rm) for glazing clip with 5 mm thick plain / frosted / tinted glass including neoprene gasket, fixtures, fastenings and accessories like handles, hinges, locking arrangement etc. complete as directedby Engineer In Charge. (Note: anodic film must not be less than 15 microns i.e. AC-15 as per IS, the anodizing must be scaleted by keeping the anodized section in boiling de-anodized water for a period of one hour)	Sqm	6549

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs.)
R2-CS-AW-07	Providing and fixing in position Centrally pivoted window made up of extruded and anodised aluminium sections of approved make and of size 38.10 mm x 25.40 mm x 1.44 mm thk (wt. 0.471 kg/Rm) for outer rectangular tube, 40 mm x 31.5 mm x 1.5 mm (wt. 0.549 kg/Rm) for Outer frame, 40 mm x 31.50 mm x 1.50 mm thk (wt. 0.502 kg/Rm) for central mullion, 40 mm x 31.50 mm x 1.50 mm thk (wt. 0.549 kg/Rm) for shutter frame, 16.50 mm x 14.50 mm x 1.20 mm thk (wt. 0.157 kg/Rm) for glazing clip with 5 mm thick plain / frosted / tinted glass including neoprene gasket, fixtures, fastenings and accessories like hinges, locking arrangement etc. complete as directed by Engineer In Charge. (Note: anodic film must not be less than 15 microns i.e. AC-15 as per IS, the anodizing must be scaleted by keeping the anodized section in boiling de-anodized water for a period of one hour)	Sqm	4919
R2-CS-AW-08	Providing and fixing in position fixed window made up of extruded and anodised aluminium sections of approved make and of size 50.80 mm x 25.40 mm x 2.41 mm thk (wt. 0.929kg./Rm) for outer rectangular tube, 40 mm x 31.5 mm x 1.5 mm (wt. 0.549 kg/Rm) for outer frame, 40 mm x 31.50 mm x 1.50 mm thk (wt. 0.502 kg/Rm) for central mullion, 16.50 mm x 14.50 mm x 1.20 mm thk (wt. 0.157 kg/Rm) for glazing clip with 5 mm thick including neoprene gasket, fixtures and fastenings etc. complete as directed by Engineer In Charge. (Note: anodic film must not be less than 15 microns i.e. AC-15 as per IS, the anodizing must be scaleted by keeping the anodized section in boiling de-anodized water for a period of one hour)	Sqm	5506
R2-CS-AW-09	Providing and fixing in position fully glazed aluminum door made up of extruded and anodised aluminium sections of approved make and of size 63.5 mm x 38.10 mm x 2.0 mm thk , 47.62 mm x 10.16 mm x 1.74 mm thk (wt. 0.881kg./Rm) for outer frame, 47.62 mm x 10.16 mm x 1.74 mm thk (wt. 0.881 kg/Rm) for top rail, 95.25 mm x 25.40 mm x 2.0 mm thk (wt. 1.519 kg/Rm) for bottom rail, 25.0 mm x 44.45 mm x 2.40 mm thk (wt. 0.918 kg/Rm) for lock rail, 47.62 mm x 44.45 mm x 1.88 mm thk (wt. 0.943 kg/Rm) for vertical of shutter (hinges side), 47.52 mm x 44.45 mm x 1.95 mm thk (wt. 0.936 kg/Rm) for vertical of shutter (latch side), clip weighing 0.097/kg/Rm., with 5 mm thick plain / frosted / tinted glass in shutter including neoprene gasket, fixtures, fastenings and accesories like hinges, locking arrangement, door closer etc., complete as directed by Engineer In Charge. (Note: anodic film must not be less than 15 microns i.e. AC-15 as per IS, the anodizing must be scaleted by keeping the anodized section in boiling de-anodized water for a period of one hour)	Sqm	6053
R2-CS-AW-10	Providing and fixing in position alluminum door fully panelled with 6mm thick Novapan BSL and made up of extruded and anodised aluminium sections of approved make and of size 63.5 mm x 38.10 mm x 2.0 mm thk, 47.62 mm x 10.16 mm x 1.74 mm thk (wt. 0.881kg./Rm) for outer frame, 47.62 mm x 10.16 mm x 1.74 mm thk (wt. 0.881 kg/Rm) for top rail, 95.25 mm x 25.40 mm x 2.0 mm thk (wt. 1.519 kg/Rm) for bottom rail, 25.0 mm x 44.45 mm x 2.40 mm thk (wt. 0.918 kg/Rm) for lock rail, 47.62 mm x 44.45 mm x 1.88 mm thk (wt. 0.943 kg/Rm) for vertical shutter (hinge side), 47.52 mm x 44.45 mm x 1.95 mm thk (wt. 0.936 kg/Rm) for vertical shutter (latch side), clip weighing 0.097/kg/Rm., including neoprene gasket, fixtures, fastenings and accesories like hinges, locking arrangement, door closer etc. complete as directed by Engineer In Charge. (Note: anodic film must not be less than 15 microns i.e. AC-15 as per IS, the anodizing must be scaleted by keeping the anodized section in boiling de-anodized water for a period of one hour)	Sqm	6119
R2-CS-AW-11	Providing and fixing in position alluminum door partly glazed and partly panelled with 6mm thick Novapan BSL and made up of extruded and anodised aluminium sections of approved make and of size 63.5 mm x 38.10 mm x 2.0 mm thk , 47.62 mm x 10.16 mm x 1.74 mm thk (wt. 0.881kg./Rm) for outer frame, 47.62 mm x 10.16 mm x 1.74 mm thk (wt. 0.881 kg/Rm) for top rail, 95.25 mm x 25.40 mm x 2.0 mm thk (wt. 1.519 kg/Rm) for bottom rail, 25.0 mm x 44.45 mm x 2.40 mm thk (wt. 0.918 kg/Rm) for lock rail, 47.62 mm x 44.45 mm x 1.88 mm thk (wt. 0.943 kg/Rm) for vertical shutter (hinge side), 47.52 mm x 44.45 mm x 1.95 mm thk (wt. 0.936 kg/Rm) for vertical shutter (latch side), clip weighing 0.097/kg/Rm., with 5 mm thick plain /frosted / tinted glass in shutters including neoprene gasket, fixtures, fastenings and accesories like hinges, locking arrangement, door closer etc. complete as directed by Engineer In Charge. (Note: anodic film must not be less than 15 microns i.e. AC-15 as per IS, the anodizing must be scaleted by keeping the anodized section in boiling de-anodized water for a period of one hour)	Sqm	6103

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs.)
R2-CS-AW-12	Providing and fixing in position fully glazed folding door made up of extruded and anodised aluminium sections of approved make and of size 63.5 mm x 38.10 mm x 2.0 mm thk (wt. 1.054 kg/Rm) for outer frame, 47.62 mm x 10.16 mm x 1.74 mm thk (wt. 0.881kg/Rm) for top rail, 95.25 mm x 25.40 mm x 2.0 mm thk(wt. 1.519 kg/Rm) for bottom rail, 25.0 mm x 44.45 mm x 2.40 mm thk (wt. 0.918 kg/Rm) for lock rail, 47.62 mm x 44.45 mm x 1.8 mm thk (wt. 0.943kg/Rm) for shutter vertical hinges side, 47.62 mm x 44.45 mm x 1.95 mm thk (wt. 0.936 kg/Rm) shutter vertical latch side, clip weighing 0.097 kg/Rm with 5 mm thick plain / frosted / tinted glass including neoprene gasket, fixtures, fastenings and accesories like hinges, locking arrangement, door closer etc. complete as directed by Engineer In Charge. (Note: anodic film must not be less than 15 microns i.e. AC-15 as per IS, the anodizing must be scaleted by keeping the anodized section in boiling de-anodized water for a period of one hour)	Sqm	5825
R2-CS-AW-13	Providing and fixing in position aluminum folding door fully panelled with 6mm thk. Novapan BSL and made up of extruded and anodised aluminium sections of approved make and of size 63.5 mm x 38.10 mm x 2.0 mm thk (wt. 1.054 kg/Rm) for outer frame, 47.62 mm x 10.16 mm x 1.74 mm thk (wt. 0.881kg/Rm) for top rail, 95.25 mm x 25.40 mm x 2.0 mm thk(wt. 1.519 kg/Rm) for bottom rail, 25.0 mm x 44.45 mm x 2.40 mm thk (wt. 0.918 kg/Rm) for lock rail, 47.62 mm x 44.45 mm x 1.8 mm thk (wt. 0.943kg/Rm) for shutter vertical hinges side, 47.62 mm x 44.45 mm x 1.95 mm thk (wt. 0.936 kg/Rm) shutter vertical latch side, clip weighing 0.097 kg/Rm including neoprene gasket, fixtures, fastenings and accesories like hinges, locking arrangement, door closer etc. complete as directed by Engineer In Charge. (Note: anodic film must not be less than 15 microns i.e. AC-15 as per IS, the anodizing must be scaleted by keeping the anodized section in boiling de-anodized water for a period of one hour)	Sqm	5857
R2-CS-AW-14	Providing and fixing in position aluminum folding door partly glazed and partly panelled with 6mm thick Novapan BSL and made up of extruded and anodised aluminium sections of approved make and of size 63.5 mm x 38.10 mm x 2.0 mm thk for outer rectangular tube, 47.62 mm x 10.16 mm x 1.74 mm thk (wt. 0.881kg./Rm) for outer frame, 47.62 mm x 10.16 mm x 1.74 mm thk (wt. 0.881 kg/Rm) for top rail, 95.25 mm x 25.40 mm x 2.0 mm thk (wt. 1.519 kg/Rm) for bottom rail, 25.0 mm x 44.45 mm x 2.40 mm thk (wt. 0.918 kg/Rm) for lock rail, 47.62 mm x 44.45 mm x 1.88 mm thk (wt. 0.943 kg/Rm) for vertical shutter (hinge side), 47.52 mm x 44.45 mm x 1.95 mm thk (wt. 0.936 kg/Rm) for vertical shutter (latch side), clip weighing 0.097/kg/Rm., with 5 mm thick plain /frosted / tinted glass in shutters including neoprene gasket, fixtures, fastenings and accesories like hinges, locking arrangement, door closer etc. complete as directed by Engineer In Charge. (Note: anodic film must not be less than 15 microns i.e. AC-15 as per IS, the anodizing must be scaleted by keeping the anodized section in boiling de-anodized water for a period of one hour)	Sqm	5841
R2-CS-AW-15	Providing and fixing anodized (anodic film must not be less than 15 microns i.e. AC-15 as per IS, the anodising must be scaleted by keeping the anodized section in boiling de-anodized water for a period of one hour) aluminum fixed/ sliding / pivoted / top hung / side hung / louvered type windows, doors, ventilators and partitions conforming to IS:1948, 1961 with hollow bottom section & standard single / two / three / four track frame section all round (top, bottom and sides) with shutter frame made up of standard handle section standard interlocking section and standard top and bottom section with infill panel of plain / frosted / tinted glass/ Novapan sheet / acrylic sheet / hardner laminated sheet as listed below with nylon guides, gliders glass fixing PVC weather strips, neoprene gasket, PVC weep holes etc complete with approved type of locking arrangement, handles and other fixtures including fixing, filling the gaps with silicon sealant, cleaning polishing the aluminium section with petrol and / or other agents as specified by the manufacturers etc. complete as directed by Engineer In Charge.		
R2-CS-AW-15-a	Aluminum section used	Kg	603
R2-CS-AW-15-b	3.5 mm thick Plain / frosted / tinted Glass	Sqm	1402
R2-CS-AW-15-c	4 mm thick Plain / frosted / tinted Glass	Sqm	1487
R2-CS-AW-15-d	5 mm thick Plain / frosted / tinted Glass	Sqm	1553
R2-CS-AW-15-e	6 mm thick Plain / frosted / tinted Glass	Sqm	1656
R2-CS-AW-15-f	8 mm thick plain / frosted / tinted glass	Sqm	1963
R2-CS-AW-15-g	9 mm thick Novapan sheet conforming to IS:2835-1991	Sqm	1707
R2-CS-AW-15-h	12 mm thick Novapan sheet conforming to IS:2835-1991	Sqm	2253
R2-CS-AW-15-i	4 mm thick Hardener Laminated sheet (Bakelite composite panel)	Sqm	1663
R2-CS-AW-15-j	15 mm thick Hollow PVC sheet Panel (Sintex or Equivalent)	Sqm	1663
R2-CS-AW-15-k	6 mm. thick Acrylic sheet	Sqm	2582
R2-CS-AW-16	Providing and fixing SS Mosquito mesh in anodised (anodic film must not be less than 15 microns i.e. AC-15 as per IS, the anodising must be scaleted by keeping the anodized section in boiling de-anodized water for a period of one hour) aluminium shutter fixed in sliding / openable / fixed windows conforming to IS:1948-1961 as per drawing and directed by Engineer In Charge. (Note: For Aluminum Sections, total weight shall be upto 3.5 kg/sq.m.)	Sqm	1453
R2-CS-AW-17	Extra for providing powder coating to aluminium sections instead of anodizing in required colour and shade with minimum 5 micron thickness including 7 course chemical cleaning, powder coating with special powder coating guns, heating in furnace as per powder coating agency's procedure all labour and material etc complete as directed by Engineer In Charge.	Kg	53

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs.)
R2-CS-AW-18	<p>Designing, fabricating, testing, installing and fixing in position Curtain Wall with Aluminium Composite Panel Cladding, with open grooves for linear as well as curvilinear portions of the building , for all heights and all levels etc. including:</p> <p>a) Structural analysis & design and preparation of shop drawings for pressure equalisation or rain screen principle as required, proper drainage of water to make it watertight including checking of all the structural and functional design.</p> <p>b) Providing, fabricating and supplying and fixing panels of aluminium composite panel cladding in pan shape in metallic colour of approved shades made out of 4mm thick aluminium composite panel material consisting of 3mm thick FR grade mineral core sandwiched between two Aluminium sheets (each 0.5mm thick). The aluminium composite panel cladding sheet shall be coil coated, with Kynar 500 based PVDF / Lumiflon based fluoropolymer resin coating of approved colour and shade on face # 1 and polymer (Service) coating on face # 2 as specified using stainless steel screws, nuts, bolts, washers, cleats, weather silicone sealant, backer rods etc.</p>	Sqm	4,228.00
	<p>c) The fastening brackets of Aluminium alloy 6005 T5 / MS with Hot Dip Galvanised with serrations and serrated washers to arrest the wind load movement, fasteners, SS 316 Pins and anchor bolts of approved make in SS 316, Nylon separators to prevent bi-metallic contacts all complete required to perform as per specification and drawing</p> <p>The item includes cost of all material & labour component, the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled working curtain wall with aluminium composite panel cladding, cleaning and protection of the curtain wall with aluminium composite panel cladding till the handing over of the building for occupation. Base frame work for ACP cladding is payable under the relevant aluminium item.s The Contractor shall provide curtain wall with aluminium composite panel cladding, having all the performance characteristics all complete , as per the Architectural drawings, as per item description, as specified, as per the approved shop drawings and as directed by the Engineer-in-Charge. However, for the purpose of payment, only the actual area on the external face of the curtain wall with Aluminum Composite Panel Cladding (including width of groove) shall be measured in sqm. up to two decimal places.</p>		
	Note : The following performance test are to be conducted on ACP system if area of ACP system exceeds 4500 Sqm from the certified laboratories accredited by NABL (National Accreditation Board for Testing and Calibration Laboratories), Department of Science & Technologies, India. The NIT approving authority will decide the necessity of testing on the basis of cost of the work, cost of the test and importance of the work.		
	Performance Testing of ACP system		
	Tests to be conducted in the NABL certified laboratories		
	1. Performance Laboratory Test for Air Leakage Test (-50pa to -300pa) & (+50pa to +300pa) as per ASTM E-283-04 testing method for a range of testing limit 1 to 200 mVhr“		
	2. Static Water Penetration Test. (50pato 1500pa) as per ASTM E-331-09 testing method for a range upto 2000 ml.“		
	3. Dynamic Water Penetration (50pato 1500pa) as per AAMA 501.01-05 testing method for a range upto 2000 ml“		
	4. Structural Performance Deflection and deformation by static air pressure test (1.5 times design wind pressure without any failure) as per ASTM E-330-10 testing method for a range upto failure) as per ASTM E-330-10 testing method for a range upto 50 mm“		
	5. Seismic Movement Test (Upto 30 mm) as per AAMA 501.4-09 testing method for Qualitative test.		
	Tests to be conducted on site		
	6. Onsite Test for Water Leakage for a pressure range 50 kpa to 240 kpa (35 psi) upto 2000 ml"		
R2-CS-AW-19	<p>Providing and fixing 12mm thk toughened etched glass as per the design, as per the design. Glass to be fixed at top & bottom in heavy guage aluminium 'c ' channel concealed in floor & boxing. Cost to be inclusive of silicon sealant to the periphery of the glass as directed.</p>	Sqm	4030.35

Chapter -15

Hardware



Buildings Schedule/ Common Schedule
Hardware Works

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs.)
R2-CS-HW	HARDWARE WORKS		
R2-CS-HW-01	Providing and fixing mortise lock of approved make manufactured as per IS:2209 and 6607 and as described below for doors with necessary fixtures and materials and labour etc. complete.		
R2-CS-HW-01-a	Brass mortise latch and lock	Nos	689
R2-CS-HW-01-b	Chromium plated Brass mortise latch and lock	Nos	980
R2-CS-HW-01-c	Chromium plated Brass mortise latch and lock with round knob	Nos	1359
R2-CS-HW-02	Providing and fixing peep hole as described below manufactured as per IS wherever applicable for doors with necessary fixtures and materials and labour etc. complete.		
R2-CS-HW-02-a	Steel peep hole with chromium plating	Nos	94
R2-CS-HW-02-b	Stainless Steel peep hole	Nos	120
R2-CS-HW-02-c	Brass peep hole	Nos	145
R2-CS-HW-03	Providing and fixing door stopper as described below of approved make manufactured as described below and as per IS:1823- 1992 for doors with necessary materials and labour cost etc. complete.		
R2-CS-HW-03-a	Anodized Aluminium door stopper	Nos	82
R2-CS-HW-03-b	M.S. door stopper (chrome plated)	Nos	70
R2-CS-HW-03-c	Stainless steel door stopper	Nos	99
R2-CS-HW-03-d	Brass (First Quality) door stopper	Nos	134
R2-CS-HW-04	Providing and fixing butt hinges as described below, manufactured as per relevant IS for door & windows with necessary materials and labour costs etc. complete.		
R2-CS-HW-04-a	A] Iron oxidized		
R2-CS-HW-04-a-1	75 mm Long	Nos	45
R2-CS-HW-04-a-2	100 mm Long	Nos	49
R2-CS-HW-04-a-3	125 mm Long	Nos	57
R2-CS-HW-04-a-4	150 mm Long	Nos	64
R2-CS-HW-04-b	B] Standard brass hinges		
R2-CS-HW-04-b-1	75 mm Long	Nos	91
R2-CS-HW-04-b-2	100 mm Long	Nos	118



Buildings Schedule/ Common Schedule
Hardware Works

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs.)
R2-CS-HW-04-b-3	125 mm Long	Nos	171
R2-CS-HW-04-b-4	150 mm Long	Nos	175
R2-CS-HW-04-c	C] Standard anodized aluminium hinges		
R2-CS-HW-04-c-1	75 mm Long	Nos	103
R2-CS-HW-04-c-2	100 mm Long	Nos	134
R2-CS-HW-04-c-3	125 mm Long	Nos	153
R2-CS-HW-04-c-4	150 mm Long	Nos	170
R2-CS-HW-04-d	D] Standard Stainless Steel hinges		
R2-CS-HW-04-d-1	75 mm Long	Nos	62
R2-CS-HW-04-d-2	100 mm Long	Nos	72
R2-CS-HW-04-d-3	125 mm Long	Nos	87
R2-CS-HW-04-d-4	150 mm Long	Nos	92
R2-CS-HW-04-e	E] Standard Stainless Steel hinges with ball bearing		
R2-CS-HW-04-e-1	75 mm Long	Nos	62
R2-CS-HW-04-e-2	100 mm Long	Nos	73
R2-CS-HW-04-e-3	125 mm Long	Nos	98
R2-CS-HW-04-e-4	150 mm Long	Nos	124
R2-CS-HW-05	Providing and fixing parliamentary hinges as described below conforming IS:362 latest edition, for doors and windows with necessary materials and labour cost etc. complete.		
R2-CS-HW-05-a	A] M.S. pressed and oxidized		
R2-CS-HW-05-a-1	75 mm Long	Nos	71
R2-CS-HW-05-a-2	100 mm Long	Nos	74
R2-CS-HW-05-a-3	125 mm Long	Nos	86
R2-CS-HW-05-a-4	150 mm Long	Nos	89
R2-CS-HW-05-b	B] M.S. pressed with chromium plating		
R2-CS-HW-05-b-1	75 mm Long	Nos	71
R2-CS-HW-05-b-2	100 mm Long	Nos	74



Buildings Schedule/ Common Schedule
Hardware Works

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs.)
R2-CS-HW-05-b-3	125 mm Long	Nos	85
R2-CS-HW-05-b-4	150 mm Long	Nos	90
R2-CS-HW-05-c	B] Brass with chromium plating		
R2-CS-HW-05-c-1	75 mm Long	Nos	94
R2-CS-HW-05-c-2	100 mm Long	Nos	102
R2-CS-HW-05-c-3	125 mm Long	Nos	108
R2-CS-HW-05-c-4	150 mm Long	Nos	119
R2-CS-HW-06	Providing and fixing aldrops of 16 mm diameter bars manufactured as per IS:2681-1991, wherever they apply for doors and windows with necessary materials and labour etc. complete.		
R2-CS-HW-06-a	A] Iron oxidized / bright finished		
R2-CS-HW-06-a-1	250 mm long.	Nos	183
R2-CS-HW-06-a-2	300 mm long.	Nos	193
R2-CS-HW-06-b	Standard Brass Aldrops		
R2-CS-HW-06-b-1	250 mm long.	Nos	285
R2-CS-HW-06-b-2	300 mm long.	Nos	331
R2-CS-HW-06-c	Standard Anodized Aluminium make		
R2-CS-HW-06-c-1	250 mm long.	Nos	336
R2-CS-HW-06-c-2	300 mm long.	Nos	398
R2-CS-HW-06-d	Standard Stainless Steel make Aldrop		
R2-CS-HW-06-d-1	250 mm long.	Nos	319
R2-CS-HW-06-d-2	300 mm long.	Nos	381
R2-CS-HW-08	Providing and fixing tower bolts as described below conforming to IS:204-1992 (Part I,II) for doors & windows with necessary materials and labour etc. complete.		
R2-CS-HW-08-a	A] Iron oxidized / bright finished		
R2-CS-HW-08-a-1	100 mm long.	Nos	52
R2-CS-HW-08-a-2	150 mm long.	Nos	60
R2-CS-HW-08-a-3	200 mm long.	Nos	66



Buildings Schedule/ Common Schedule
Hardware Works

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs.)
R2-CS-HW-08-a-4	250 mm long.	Nos	78
R2-CS-HW-08-a-5	300 mm long.	Nos	80
R2-CS-HW-08-b	B] Standard Anodised Aluminium		
R2-CS-HW-08-b-1	100 mm long.	Nos	69
R2-CS-HW-08-b-2	150 mm long.	Nos	90
R2-CS-HW-08-b-3	200 mm long.	Nos	104
R2-CS-HW-08-b-4	250 mm long.	Nos	117
R2-CS-HW-08-b-5	300 mm long.	Nos	138
R2-CS-HW-08-c	C] Standard stainless steel		
R2-CS-HW-08-c-1	100 mm long.	Nos	184
R2-CS-HW-08-c-2	150 mm long.	Nos	239
R2-CS-HW-08-c-3	200 mm long.	Nos	293
R2-CS-HW-08-c-4	250 mm long.	Nos	348
R2-CS-HW-08-c-5	300 mm long.	Nos	402
R2-CS-HW-08-d	D] Standard Brass Tower bolt		
R2-CS-HW-08-d-1	100 mm long.	Nos	136
R2-CS-HW-08-d-2	150 mm long.	Nos	193
R2-CS-HW-08-d-3	200 mm long.	Nos	282
R2-CS-HW-08-d-4	250 mm long.	Nos	302
R2-CS-HW-08-d-5	300 mm long.	Nos	361
R2-CS-HW-09	Providing and fixing handles as described below, manufactured as per IS:208-1992 for doors and windows and with necessary materials and fixtures like screws etc. and all labour etc. complete.		
R2-CS-HW-09-a	A] Iron oxidized / bright finished		
R2-CS-HW-09-a-1	75 mm long.	Nos	34
R2-CS-HW-09-a-2	100 mm long.	Nos	35
R2-CS-HW-09-a-3	125 mm long.	Nos	39
R2-CS-HW-09-a-4	150 mm long.	Nos	41



Buildings Schedule/ Common Schedule
Hardware Works

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs.)
R2-CS-HW-09-a-5	200 mm long.	Nos	45
R2-CS-HW-09-b	B] Standard Brass Handles		
R2-CS-HW-09-b-1	75 mm long.	Nos	157
R2-CS-HW-09-b-2	100 mm long.	Nos	202
R2-CS-HW-09-b-3	125 mm long.	Nos	222
R2-CS-HW-09-b-4	150 mm long.	Nos	227
R2-CS-HW-09-b-5	200 mm long.	Nos	272
R2-CS-HW-09-b-6	250 mm long.	Nos	2295
R2-CS-HW-09-b-7	300 mm long.	Nos	383
R2-CS-HW-09-c	C] Standard Anodized aluminium make		
R2-CS-HW-09-c-1	100 mm long.	Nos	79
R2-CS-HW-09-c-2	150 mm long.	Nos	80
R2-CS-HW-09-c-3	200 mm long.	Nos	93
R2-CS-HW-09-c-4	250 mm long.	Nos	101
R2-CS-HW-09-c-5	300 mm long.	Nos	107
R2-CS-HW-09-d	D] Standard Stainless Steel		
R2-CS-HW-09-d-1	100 mm long.	Nos	64
R2-CS-HW-09-d-2	150 mm long.	Nos	91
R2-CS-HW-09-d-3	200 mm long.	Nos	113
R2-CS-HW-09-d-4	250 mm long.	Nos	137
R2-CS-HW-09-d-5	300 mm long.	Nos	161
R2-CS-HW-10	Providing and fixing double / single acting spring hinges as described below manufactured relevant standards for doors with all labour, materials and necessary fixtures etc. complete		
R2-CS-HW-10-a	A] Iron oxidized spring hinges		
R2-CS-HW-10-a-1	100 mm long.	Nos	174
R2-CS-HW-10-a-2	125 mm long.	Nos	188
R2-CS-HW-10-a-3	150 mm long.	Nos	185



Buildings Schedule/ Common Schedule
Hardware Works

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs.)
R2-	A] brass spring hinges		
R2-CS-HW-10-b-1	100 mm long.	Nos	480
R2-CS-HW-10-b-2	125 mm long.	Nos	530
R2-CS-HW-10-b-3	150 mm long.	Nos	778
R2-CS-HW-11	Providing and fixing hydraulic door closer of approved make manufactured as per IS:3564 for doors with necessary materials and labour cost etc. complete.		
R2-CS-HW-11-a	Light (for shutter weight up to 35 kg)	Nos	659
R2-CS-HW-11-b	Medium (for shutter weighting from 36 – 60kg)	Nos	822
R2-CS-HW-11-c	Heavy (for shutter weighting from 61 – 80 kg)	Nos	1019
R2-CS-HW-12	Providing and fixing iron oxidized hanging type floor door stopper with rubber cap of approved make including necessary screws, fixtures, materials and labour etc. complete.	No.	70
R2-CS-HW-13	Providing and fixing magnetic type floor door stopper of approved make including necessary screws, fixtures, materials and labour etc. complete.	No.	84
R2-CS-HW-14	Providing and fixing oxidised M.S. casement stays (straight peg type) with necessary screws etc. complete		
R2-CS-HW-14-a	300 mm weighing not less than 200 gms.	Nos	84
R2-CS-HW-14-b	250 mm weighing not less than 150 gms.	Nos	78
R2-CS-HW-14-c	200 mm weighing not less than 120 gms	Nos	76
R2-CS-HW-15	Providing and fixing double action hydraulic floor spring of approved brand and manufacture IS : 6315 marked, for doors including cost of cutting floors as required, embedding in floors and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as directed by Engineer-in-charge.		
R2-CS-HW-15-a	With stainless steel cover plate	Nos	2309
R2-CS-HW-15-b	With brass cover plate	Nos	2730
R2-CS-HW-16	Providing and fixing with neat finish, brass night latch with set of three keys manufactured as per best engineering practice and as per IS:3847- 1992 for doors with necessary materials and labour etc. complete, to ensure smooth operation (Godrej make or equivalent)	Nos	984
R2-CS-HW-17	Providing and fixing Neoprene linings all around the frames as well as on intermediate hinge lines and meeting styles as shown in the drawings to make the doors or windows airtight etc complete as directed.	Rmt	158



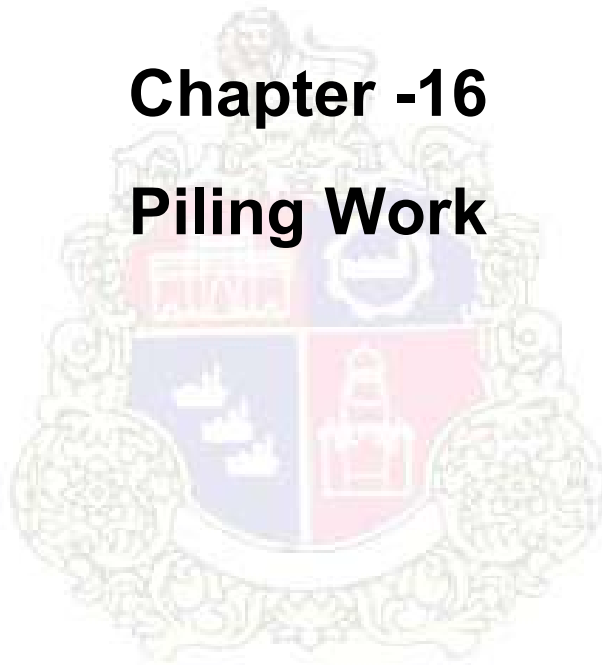
Buildings Schedule/ Common Schedule
Hardware Works

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs.)
R2-CS-HW-18	Providing and fixing anodized (anodic film must not be less than 15 microns i.e. AC-15 as per IS, the anodising must be scaleted by keeping the anodized section in boiling de-anodized water for a period of one hour) kick plate of aluminium sheet 24 G conforming to IS:1948, 1961 fixed to door shutters etc. complete.	No.	236
R2-CS-HW-19	Providing and fixing stainless steel door chain including necessary stainless steel screws etc complete as directed by Engineer In Charge.	No.	76
R2-CS-HW-20	Providing and fixing cylindrical lock of approved make for doors with necessary fixtures and materials and labour etc. Complete as directed by Engineer In Charge.	No.	941



Chapter -16

Piling Work



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-PLG	PILING WORKS		
	Chapter - 1. Bored Cast - In Situ Piles		
R2-CS-PLG-1-1	Providing and Casting RCC bored cast in-situ Vertical as per IS 2911 (Part 1, Section 2) by boring through all kinds of soils/ Sand /Rock by rotary hydraulic rigs using temporary casing up to stable strata / bentonite mud circulation as specified, from tip to cut-off elevation of piles. Reinforced Cement Concrete work of filling the bore (after placement of reinforcement cage as per drawing) with M25 grade Ready Mix Concrete using 43 Grade Ordinary Portland Cement confirming to IS : 8112, of approved make and brand with minimum cement content of 400 kg/m ³ and with water -cement ratio, including the water contained in aggregates (10mm to max 20mm size), not exceeding 0.45, with approved plasticizer as specified, including placing of concrete from tip to minimum of 600mm above the specified cut-off level, breaking pile head to cutoff level and exposing pile reinforcement for embedment in pile cap, Disposing & levelling of bored/excavated material suitably at locations approved by the local authorities including all lead and lifts, all complete for piles having diameter of (Pile will be measured for payment for length between pile tip to cut-off level along the pile axis. Reinforcement shall be paid separately)		
	Note : Cost of temporary casing shall be incurred by the Contractor.		
R2-CS-PLG-1-1-a-1	300 mm	Rmt	3419
R2-CS-PLG-1-1-a-2	400 mm	Rmt	3850
R2-CS-PLG-1-1-a	500 mm	Rmt	4405
R2-CS-PLG-1-1-b	600 mm	Rmt	5125
R2-CS-PLG-1-1-c	750 mm	Rmt	7341
R2-CS-PLG-1-1-d	900 mm	Rmt	10906
	Concreting with approved sulphate resistant concrete		
R2-CS-PLG-1-1-e	500 mm	Rmt	4614
R2-CS-PLG-1-1-f	600 mm	Rmt	5426
R2-CS-PLG-1-1-g	750 mm	Rmt	7811
R2-CS-PLG-1-1-h	900 mm	Rmt	11583
R2-CS-PLG-2	Providing and Casting RCC bored cast in-situ Vertical piles as per IS 2911 (Part 1, Section 2) by boring through all kinds of soils/ Sand by Tripod, Winch and Chisel using temporary casing up to stable strata / bentonite mud circulation as specified, from tip to cut-off elevation of piles. Reinforced Cement Concrete work of filling the bore (after placement of reinforcement cage as per drawing) with M25 grade Ready Mix Concrete using 43 Grade Ordinary Portland Cement confirming to IS : 8112, of approved make and brand with minimum cement content of 400 kg/m ³ and with water - cement ratio, including the water contained in aggregates (10mm to max 20mm size), not exceeding 0.45, with approved plasticizer as specified, including placing of concrete from tip to minimum of 600mm above the specified cut-off level, breaking pile head to cutoff level and exposing pile reinforcement for embedment in pile cap, and including disposing & levelling of bored/excavated material suitably at locations approved by the local authorities including all lead and lifts, all complete for piles having diameter of (Pile will be measured for payment for length between pile tip to cut-off level along the pile axis. Reinforcement shall be		
	Note : Cost of temporary casing shall be incurred by the Contractor.		
	Chiselling of local boulders shall be carried at contractor's cost.		
R2-CS-PLG-2-1-a	300 mm	Rmt	1241
R2-CS-PLG-2.1	400 mm	Rmt	1606
R2-CS-PLG-2.2	450 mm	Rmt	2033
R2-CS-PLG-2.3	500 mm	Rmt	2510
R2-CS-PLG-2.4	600 mm	Rmt	3615
R2-CS-PLG-2.5	750 mm	Rmt	5651
R2-CS-PLG-2.6	900 mm	Rmt	8140



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
	Concreting with approved sulphate resistant concrete		
R2-CS-PLG-2.7	400 mm	Rmt	1740
R2-CS-PLG-2.8	450 mm	Rmt	2202
R2-CS-PLG-2.9	500 mm	Rmt	2719
R2-CS-PLG-2.10	600 mm	Rmt	3916
R2-CS-PLG-2.11	750 mm	Rmt	6120
R2-CS-PLG-2.12	900 mm	Rmt	8816
R2-CS-PLG-2-2	Extra over rate for items CS-PLG-1 & 2 for using M30 instead of M 25		
R2-CS-PLG-2-2-a	400 mm	Rmt	33
R2-CS-PLG-2-2-b	450 mm	Rmt	42
R2-CS-PLG-2-2-c	500 mm	Rmt	52
R2-CS-PLG-2-2-d	600 mm	Rmt	75
R2-CS-PLG-2-2-e	750 mm	Rmt	118
R2-CS-PLG-2-2-f	900 mm	Rmt	169
	Concreting with approved sulphate resistant concrete		
R2-CS-PLG-2-2-g	400 mm	Rmt	50
R2-CS-PLG-2-2-h	450 mm	Rmt	63
R2-CS-PLG-2-2-i	500 mm	Rmt	78
R2-CS-PLG-2-2-j	600 mm	Rmt	113
R2-CS-PLG-2-2-k	750 mm	Rmt	176
R2-CS-PLG-2-2-l	900 mm	Rmt	254
R2-CS-PLG-2-3	Extra over rate for items CS-PLG-1 & 2 for using M35 instead of M 25		
R2-CS-PLG-2-3-a	400 mm	Rmt	67
R2-CS-PLG-2-3-b	450 mm	Rmt	85
R2-CS-PLG-2-3-c	500 mm	Rmt	105
R2-CS-PLG-2-3-d	600 mm	Rmt	150
R2-CS-PLG-2-3-e	750 mm	Rmt	235
R2-CS-PLG-2-3-f	900 mm	Rmt	339
	Concreting with approved sulphate resistant concrete		
R2-CS-PLG-2-3-g	400 mm	Rmt	75
R2-CS-PLG-2-3-h	450 mm	Rmt	95
R2-CS-PLG-2-3-i	500 mm	Rmt	118
R2-CS-PLG-2-3-j	600 mm	Rmt	169
R2-CS-PLG-2-3-k	750 mm	Rmt	265
R2-CS-PLG-2-3-l	900 mm	Rmt	381
R2-CS-PLG-2-4	Extra over rate for items CS-PLG-1 & 2 for using M40 instead of M 25		
R2-CS-PLG-2-4-a	400 mm	Rmt	100
R2-CS-PLG-2-4-b	450 mm	Rmt	127
R2-CS-PLG-2-4-c	500 mm	Rmt	157
R2-CS-PLG-2-4-d	600 mm	Rmt	226
R2-CS-PLG-2-4-e	750 mm	Rmt	353
R2-CS-PLG-2-4-f	900 mm	Rmt	508
	Concreting with approved sulphate resistant concrete		
R2-CS-PLG-2-4-g	400 mm	Rmt	134
R2-CS-PLG-2-4-h	450 mm	Rmt	169
R2-CS-PLG-2-4-i	500 mm	Rmt	209
R2-CS-PLG-2-4-j	600 mm	Rmt	301
R2-CS-PLG-2-4-k	750 mm	Rmt	470
R2-CS-PLG-2-4-l	900 mm	Rmt	677
R2-CS-PLG-2-5	Extra over rate for items CS-PLG-1 & 2 for using M45 instead of M 25		
R2-CS-PLG-2-5-a	400 mm	Rmt	134
R2-CS-PLG-2-5-b	450 mm	Rmt	169
R2-CS-PLG-2-5-c	500 mm	Rmt	209
R2-CS-PLG-2-5-d	600 mm	Rmt	301



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-PLG-2-5-e	750 mm	Rmt	470
R2-CS-PLG-2-5-f	900 mm	Rmt	677
	Concreting with approved sulphate resistant concrete		
R2-CS-PLG-2-5-g	400 mm	Rmt	201
R2-CS-PLG-2-5-h	450 mm	Rmt	254
R2-CS-PLG-2-5-i	500 mm	Rmt	314
R2-CS-PLG-2-5-j	600 mm	Rmt	451
R2-CS-PLG-2-5-k	750 mm	Rmt	705
R2-CS-PLG-2-5-l	900 mm	Rmt	1016
R2-CS-PLG-3.0	Empty boring through over burden including road crust upto the bottom of pile cap for all diameters of piles.	Rmt.	1990
R2-CS-PLG-4.0	Extra over rates quoted in items 1 & 2 for chiseling through soft / weathered rock / hard rock / large boulders / old foundations / masonry / concrete etc. using a chisel weighing not less than 750 kg. (Is applicable to boring by Tripod and Winch Equipment)		
R2-CS-PLG-4.1	400 mm	Rmt.	867
R2-CS-PLG-4.2	450 mm	Rmt.	1097
R2-CS-PLG-4.3	500 mm	Rmt.	1355
R2-CS-PLG-4.4	550 mm	Rmt.	1639
R2-CS-PLG-4.5	600 mm	Rmt.	1951
R2-CS-PLG-4.6	750 mm	Rmt.	3048
R2-CS-PLG-4.7	900 mm	Rmt.	4389
R2-CS-PLG-5.0	Supply and placing in position high strength deformed steel bars reinforcement of grade Fe-500 conforming to IS:1786 (latest version) for RCC Cast-in-situ piles for full length of pile including transporting the same from source to site of work, straightening, cleaning, decoiling, cutting, bending to required shape and lengths as per details, binding with 16 SWG black soft annealed binding wire, supplying and placing with proper cover blocks, supports, chairs, spacers, welding, if required, to form a grid cage etc., complete as per instruction of the Engineer-in-Charge (steel supplied by contractor at his own cost and duly approved by Engineer in charge)	MT	64518
R2-CS-PLG-5.1	Providing and installing in position permanent M.S. liners for piles of specified diameter and fabricated from 6.0mm to 8.0mm thick plates as per detailed drawings and designs including cutting, bending to required shape, welding, painting with Red Oxide paint etc. complete as specified and directed.	MT	79777
	Chapter - 2. Driven Cast - In Situ Piles		
R2-CS-PLG-6.0	Installation of Driven Cast-In-situ RCC vertical pile as per IS 2911 (Part 1 - Sec 1) up to 20m depth below Existing Ground Level by driving a suitable MS casing pipe in all types of soil (having detachable MS Shoe (flat / conical), at the bottom and driving using atleast 5MT hammer for the length as specified (length to be measured from pile cut off level to the bottom of pile) / for the desired set criteria (to be finalized during detailed engineering stage) so as to achieve the safe load carrying capacity as per the design using cement concrete grade of M35 conforming to IS 456 with 20mm nominal size stone aggregates with a minimum cement content of 400 kg/cum of concrete including providing all materials (but excluding the reinforcement for which measurement shall be made separately), with approved plasticizer up to min 600mm above cut-off level, breaking/chipping pile head to cutoff level and exposing pile reinforcement for embedment in pile cap etc. including approved MS shoe (design and drawing of MS shoe shall be submitted for approval without any extra cost to MCGM) etc all complete as per the specification, drawing as directed by engineer in charge.		
R2-CS-PLG-6.1	400mm	Rmt	3891
R2-CS-PLG-6.2	450mm	Rmt	4172
R2-CS-PLG-6.3	500mm	Rmt	4604



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-PLG-6.4	550mm	Rmt	4833
R2-CS-PLG-7.0	Installation of Driven Cast-In-situ RCC vertical pile as per IS 2911 (Part 1 Sec 1) up to 30m depth below Existing Ground Level by driving a suitable MS casing pipe in all types of soil (having detachable MS Shoe (flat/ conical), at the bottom and driving using atleast 5MT hammer for the length as specified (length to be measured from pile cut off level to the bottom of pile) / for the desired set criteria (to be finalized during detailed engineering stage) so as to achieve the safe load carrying capacity as per the design using cement concrete grade of M35 conforming to IS 456 with 10mm to max 20mm nominal size stone aggregates with a minimum cement content of 400 kg/cum of concrete including providing all materials (but excluding the reinforcement for which measurement shall be made separately), with approved plasticizer up to min 600mm above cut-off level, breaking/chipping pile head to cutoff level and exposing pile reinforcement for embedment in pile cap etc including approved MS shoe (design and drawing of MS shoe shall be submitted for approval without any extra cost to MCGM) etc all complete as per the specification, drawing as directed by engineer in charge.		
R2-CS-PLG-7.1	400 mm	Rmt	2946
R2-CS-PLG-7.2	450mm	Rmt	3227
R2-CS-PLG-7.3	500mm	Rmt	3542
R2-CS-PLG-7.4	550mm	Rmt	3888
	Concreting with approved sulphate resistant concrete		
R2-CS-PLG-7.5	400 mm	Rmt	3089
R2-CS-PLG-7.6	450 mm	Rmt	3408
R2-CS-PLG-7.7	500mm	Rmt	3765
R2-CS-PLG-7.8	550mm	Rmt	4158
Chapter - 2. Under Reamed Piles (Bore Cast In-Situ piles with single/double bulb)			
R2-CS-PLG-6-1	Installation of under reamed vertical piles as per IS: 2911 (Part III) through clays and providing specified pile dia single of specified size under reamed piles with or without using bentonite, tip to cut-off elevation of piles and called for on the drawings or as instructed by the Engineer, filling the bore by using tremie (after placement of reinforcement cage as per drawing) with M35 Grade concrete using 43 Grade Ordinary Portland Cement conforming to IS: 8112, of approved make and brand, with a minimum cement content of 400 kg/m ³ of concrete and with water-cement ratio, including the water contained in the aggregates, not exceeding 0.45, approved plasticisers, if required (quantity as per manufacturer's instructions/ recommendation), etc. all as specified or as directed, including concreting a minimum of 600 mm above the specified cut-off level, cutting-off piles at the elevation specified, etc. and including disposing off the bored/ excavated material upto the dumping yard approved by the local authorities, all complete: (Excluding Reinforcement) :		
R2-CS-PLG-6-1-a	400 mm	Rmt	4030
R2-CS-PLG-6-1-b	450 mm	Rmt	4428
R2-CS-PLG-6-1-c	500 mm	Rmt	4847
R2-CS-PLG-6-2	Extra over item No. CS-PLG-6-1 for providing additional bulb in under reamed piles, under specified dia meter (Only the quantity of extra bulbs are to be paid).		
R2-CS-PLG-6-2-a	400 mm	each	2622
R2-CS-PLG-6-2-b	450 mm	each	2793
R2-CS-PLG-6-2-c	500 mm	each	2989
Chapter - 3. Driven Precast Piles			



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-PLG-8.0	Providing supply and installation of Driven RCC Precast vertical / raker piles of circular shape of M35 grade as per IS 2911 (Part 1, Section 3) from the approved manufacturer (Manufacture of precast concrete piles shall confirm to the guidelines in clause no. 7.1, 7.2 and 7.3 of IS 2911 (Part 1, Section 3)) and handling, lifting, pitching and driving of piles through loose to medium sands (casted with MS Shoe (flat/ conical)) by Vibrating Pile driving hammer to the specified depth or refusal as specified for the desired set criteria (to be finalized during detailed engineering stage) so as to achieve the safe load carrying capacity as per the design. Breaking/chipping pile head to cutoff level and exposing pile reinforcement for embedment in pile cap and including approved MS shoe (design and drawing of MS shoe shall be submitted for approval without any extra cost to MCGM), all complete for piles having diameter of (vertical /raker piles will be measured for payment for a length between pile tip to cut-off level along the pile axis)		
R2-CS-PLG-8.1	400 mm	Rmt	2596
R2-CS-PLG-8.2	450 mm	Rmt	2876
R2-CS-PLG-8.3	500 mm	Rmt	3704
R2-CS-PLG-8.4	600 mm	Rmt	3830
R2-CS-PLG-9.0	Providing supply and installation of Driven RCC Precast vertical / raker piles of square shape of M35 grade as per IS 2911 (Part 1, Section 3) from the approved manufacturer (Manufacture of precast concrete piles shall confirm to the guidelines in clause no. 7.1, 7.2 and 7.3 of IS 2911 (Part 1, Section 3)) and handling, lifting, pitching and driving of piles (casted with MS Shoe (flat/ conical)) by Vibrating Pile driving hammer to the specified depth or refusal as specified for the desired set criteria (to be finalized during detailed engineering stage) so as to achieve the safe load carrying capacity as per the design. Breaking/chipping pile head to cutoff level and exposing pile reinforcement for embedment in pile cap and including approved MS shoe (design and drawing of MS shoe shall be submitted for approval without any extra cost to MCGM), all complete. (vertical /raker piles will be measured for payment for a length between pile tip to cut-off level along the pile axis)		
R2-CS-PLG-9.1	400 mm	Rmt	2822
R2-CS-PLG-9.2	450 mm	Rmt	3188
R2-CS-PLG-9.3	500 mm	Rmt	4089
R2-CS-PLG-9.4	600 mm	Rmt	4928
	Chapter - 4. Bored precast piles		
R2-CS-PLG-10	Providing and placing in position of RCC Bored Precast vertical piles of circular shape as per IS 2911 (Part 1, Section 4) by boring through all kinds of soils/ sand / rock by rotary hydraulic rigs using temporary casing up to stable strata / bentonite mud circulation as specified, from tip to cut-off elevation of piles as shown in the drawings or as instructed by the Engineer including supply of RCC M35 grade precast piles with 30mm dia casing pipe for grouting from the approved manufacturer and handling, lifting, installation to the specified depth in the prebored holes along with grouting of base/annular space through central duct of pile. Breaking / chipping of pile head to cutoff level and exposing pile reinforcement for embedment in pile cap and welding the new bars of same diameter by butt or lap weld if required, curing etc. complete as per the drawings and Engineer's instructions.etc., including empty boring and disposing & levelling of bored/excavated material suitably at locations approved by the local authorities including all lead and lifts, all complete. (piles will be measured for payment for a length between pile tip to cut-off level along the pile axis)		



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-PLG-10.1	300 mm	Rmt	3652
R2-CS-PLG-10.2	350 mm	Rmt	3866
R2-CS-PLG-10.3	400 mm	Rmt	4125
R2-CS-PLG-10.4	450 mm	Rmt	4433
R2-CS-PLG-10.5	500 mm	Rmt	4762
R2-CS-PLG-10.6	600 mm	Rmt	5528
R2-CS-PLG-10.7	750 mm	Rmt	7913
R2-CS-PLG-11	Grouting the base in Bored Precast piles after cleaning the borehole and annular space with minimum 1:2 cement, sand grout mix and with grout pump of required capacity with grout pressure range 30 bar to 60 bar through central duct which is casted in the pile or as specified by Engineer.	kg	196
	Chapter - 5. Pile Cap		
R2-CS-PLG-12	Preparation of base of pile caps by the removal of the unsuitable soft material, laying 230mm thick rubble soling and 100mm thick PCC of M15 grade soling as per the direction of Engineer in charge and supply of all materials, labours and equipments etc. complete. Refer R2-CS-EW-26 & R2-CS-CW-1b	cum	Refer R2-CS-EW-26 & R2-CS-CW-1b
R2-CS-PLG-13	Providing and laying RCC Pile Cap in position with M35 grade Ready Mix Concrete, using Ordinary Portland Cement, of approved make and brand, with minimum cement content of 400 kg per cum of concrete and water cement ratio not more than 0.45 and aggregate of 10mm to 20mm max size including the cost of centering, shuttering finishing, compacting by vibrators and curing etc. complete as specified and directed by Engineer-in-charge. Reinforcement steel will be measured separately. Refer R2-CS-CW-13-a	cum	Refer R2-CS-CW-13-a
	Chapter - 6. Pile Testing		
R2-CS-PLG-14	Carrying out low strain pile integrity test on 300mm / 350 mm / 400mm diameter pile including all arrangements for test, equipments/accessories, materials, labour, submission of test report etc but excluding the cost of installation of job pile (installation of pile shall be paid separately as per relevant items)all complete as per specification and as directed by the engineer-in-charge.	Nos	1770
R2-CS-PLG-14.1	450 mm	Nos	2065
R2-CS-PLG-14.2	500 mm	Nos	2360
R2-CS-PLG-14.3	600 mm	Nos	2950
R2-CS-PLG-14.4	750 mm	Nos	4130
R2-CS-PLG-14.5	900 mm	Nos	4720
R2-CS-PLG-15	Conducting cross-hole test in Bored Cast In-situ piles through 50 mm diameter PVC pipes shall be embedded (minimum numbers of pipes are indicated against each diameter of piles) during the construction, including cleaning the PVC pipes, supply of testing equipment and approach, carrying out the test by a qualified and experienced personnel, interpretation of results, submission of test reports complete in all respects as directed by the Engineer, for pile having diameter of:	Nos	
R2-CS-PLG-15.1	600 mm-(minimum 3 Numbers PVC pipes to be embedded)	Nos	5900
R2-CS-PLG-15.2	750 mm-(minimum 4 Numbers PVC pipes to be embedded)	Nos	5900
R2-CS-PLG-15.3	900 mm-(minimum 5 Numbers PVC pipes to be embedded)	Nos	5900



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-PLG-16	Conducting Initial Load Test (Compression) up to maximum test load of 2.5 times the safe load capacity on single pile as specified in accordance with IS 2911 part-4 including preparation of pile head for testing, necessary excavation, jacks, kentledge, accessories, measuring devices, recording of results, labour, submission of test report etc. complete, but excluding the cost of installation of pile (insallation of pile shall be paid seperately) etc.all complete as per the specification, drawing and as directed by the Engineer in charge for the following		
	for vertical compression test by cyclic load method		
R2-CS-PLG-16.1	400 mm	Nos	354000
R2-CS-PLG-16.2	450 mm	Nos	413000
R2-CS-PLG-16.3	500 mm	Nos	472000
R2-CS-PLG-16.4	550 mm	Nos	531000
R2-CS-PLG-16.5	600 mm	Nos	590000
R2-CS-PLG-16.6	750 mm	Nos	649000
R2-CS-PLG-16.7	900 mm	Nos	708000
	for vertical compression test		
R2-CS-PLG-16.8	400 mm	Nos	342200
R2-CS-PLG-16.9	450 mm	Nos	401200
R2-CS-PLG-16.10	500 mm	Nos	460200
R2-CS-PLG-16.11	550 mm	Nos	519200
R2-CS-PLG-16.12	600 mm	Nos	578200
R2-CS-PLG-16.13	750 mm	Nos	637200
R2-CS-PLG-16.14	900 mm	Nos	696200
R2-CS-PLG-17	Carrying out Initial Lateral Load Test on vertical (Initial/test) piles up to maximum test load of 2.0 times the safe lateral load capacity on single pile as specified in accordance with IS 2911 part-4 including all necessary arrangements such as jacks, measuring devices, etc. complete as required. (For this test if adjoining piles is used for drawing support for test then the arrangements shall be made to record deflection, submission of test report etc. of both the piles. However, testing both these piles will be considered as one test only. Providing and installing test piles measured separately)		
R2-CS-PLG-17.1	400 mm	Nos	177000
R2-CS-PLG-17.2	450 mm	Nos	236000
R2-CS-PLG-17.3	500 mm	Nos	295000
R2-CS-PLG-17.4	550 mm	Nos	354000
R2-CS-PLG-17.5	600 mm	Nos	413000
R2-CS-PLG-17.6	750 mm	Nos	472000
R2-CS-PLG-17.7	900 mm	Nos	590000
R2-CS-PLG-18	For Tension/Uplift test (Pull Out) on vertical (initial/test) piles as per IS 2911 part-4 up to maximum test load of two times the safe load capacity as specified including all necessary arrangements such as jacks, supports, measuring devices, etc. complete as required. Arrangements shall be made to record uplift movement, submission of test report etc.(Providing and installing test piles measured separately)		
R2-CS-PLG-18.1	400 mm	Nos	236000
R2-CS-PLG-18.2	450 mm	Nos	295000
R2-CS-PLG-18.3	500 mm	Nos	354000
R2-CS-PLG-18.4	550 mm	Nos	413000
R2-CS-PLG-18.5	600 mm	Nos	472000
R2-CS-PLG-18.6	750 mm	Nos	531000
R2-CS-PLG-18.7	900 mm	Nos	649000



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-PLG-19	Conducting Routine Load Test (Compression) on single working pile up to maximum test load of one and a half times the safe load capacity as specified in accordance with IS 2911 part-4 including the preparation of pilehead for testing, necessary excavation, providing all arrangements of loading and unloading in the form of kentledge or anchore piles, test equipments/accessories, jacks, labours, recording of results, submission of test report etc. but excluding the cost of job pile complete as per the specification, drawing and as directed in charge for the following		
	for vertical compression test by cyclic load		
R2-CS-PLG-19.1	400 mm	Nos	348100
R2-CS-PLG-19.2	450 mm	Nos	407100
R2-CS-PLG-19.3	500 mm	Nos	466100
R2-CS-PLG-19.4	550 mm	Nos	525100
R2-CS-PLG-19.5	600 mm	Nos	584100
R2-CS-PLG-19.6	750 mm	Nos	643100
R2-CS-PLG-19.7	900 mm	Nos	702100
	for vertical compression test		
R2-CS-PLG-19.8	400 mm	Nos	342200
R2-CS-PLG-19.9	450 mm	Nos	401200
R2-CS-PLG-19.10	500 mm	Nos	460200
R2-CS-PLG-19.11	550 mm	Nos	519200
R2-CS-PLG-19.12	600 mm	Nos	578200
R2-CS-PLG-19.13	750 mm	Nos	637200
R2-CS-PLG-19.14	900 mm	Nos	696200
R2-CS-PLG-20	Carrying out Lateral Load Test on single working pile up to maximum test load of one and half times the safe load capacity as specified in accordance with IS 2911 part-4 including all necessary arrangements such as jacks, measuring devices, submission of test report etc. complete as required. (For this test two working piles will be considered as test piles. Arrangements shall be made to record deflection, etc. of both the piles. However, testing both these piles will be considered as one test only.		
R2-CS-PLG-20.1	400 mm	Nos	177000
R2-CS-PLG-20.2	450 mm	Nos	236000
R2-CS-PLG-20.3	500 mm	Nos	295000
R2-CS-PLG-20.4	550 mm	Nos	354000
R2-CS-PLG-20.5	600 mm	Nos	413000
R2-CS-PLG-20.6	750 mm	Nos	472000
R2-CS-PLG-20.7	900 mm	Nos	590000
R2-CS-PLG-21	Conducting routine vertical load test for 1.5 times safe load carrying capacity by means of High Strain Dynamic Load Test including provision and erection of crane- hammer-drop mechanism, acceleration and displacement velocity transducers to record both force and velocity including excavation, dewatering, preparation of pile head including building up of pile, additional reinforcement if any etc. all complete as per approved method (ASTM D4945-89), submission of test report, specifications and instructions of the Engineer for piles of following diameter :		
R2-CS-PLG-21.1	400 mm	Nos	118000
R2-CS-PLG-21.2	450 mm	Nos	135700
R2-CS-PLG-21.3	500 mm	Nos	153400
R2-CS-PLG-21.4	550 mm	Nos	171100
R2-CS-PLG-21.5	600 mm	Nos	188800
R2-CS-PLG-21.6	750 mm	Nos	206500
R2-CS-PLG-21.7	900 mm	Nos	247800
	Chapter - 7. Sheet Piling		



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-PLG-22	Supplying Hot Rolled steel sheet piles having properties described in respective specifications or/ and shown in drawings (Z or U type with sectional modulus of minimum 2500 cm ³ , steel grade S430 GP with minimum yield strength of 430 MPa, minimum thickness 12.0 mm thickness, with Larssen interlocks and applying recommended sealant for complete watertightness (if required) & using suitable corner sections as per site condition) .Installing the same to line and level including making reformed steel sheet piles at required positions as corners, junction, wedges etc. as per approved drawing and specification in single or group jointing by welding properly, installing vertically along the alignment with the help of equipments like air compressors,excavator mounted / crane mounted vibro hammers / Impact Hammers / Hydraulic Pressing Hammers / vibrating drives powered by electric or hydraulic motor or combination of both based on the site requirements through the grooves to interlock together, wedges to make up for the permissible deviation of piles from the plumb lines caused during pile driving, slipped piles with the adjacent ones are found or loosened or dislocated during or after installation , sheet piles shall be		
	Permanent sheet piles		
R2-CS-PLG-22.1	(a) For depth 0 to 5 m below ground level	Sqm	12425
R2-CS-PLG-22.2	(b) For depth 0 to 10 m below ground level	Sqm	15465
R2-CS-PLG-22.3	(c) For depth 0 to 15 m below ground level	Sqm	17620
	Sheet piles for with two time use		
R2-CS-PLG-22.4	(a) For depth 0 to 5 m below ground level	Sqm	7426
R2-CS-PLG-22.5	(b) For depth 0 to 10 m below ground level	Sqm	8106
R2-CS-PLG-22.6	(c) For depth 0 to 15 m below ground level	Sqm	9527
	Sheet piles with three time use		
R2-CS-PLG-22.7	(a) For depth 0 to 5 m below ground level	Sqm	5124
R2-CS-PLG-22.8	(b) For depth 0 to 10 m below ground level	Sqm	6497
R2-CS-PLG-22.9	(c) For depth 0 to 15 m below ground level	Sqm	7693
	Sheet piles with four time use		
R2-CS-PLG-22.10	(a) For depth 0 to 5 m below ground level	Sqm	4476
R2-CS-PLG-22.11	(b) For depth 0 to 10 m below ground level	Sqm	5692
R2-CS-PLG-22.12	(c) For depth 0 to 15 m below ground level	Sqm	6776
R2-CS-PLG-23	Rebate on above items for extrating sheet piles on completion of work with the help of equipments like cranes and vibratory pile driver having the frequency causing very less vibration effect etc. as directed by owner/ consultant. Extracted sheet piles shall contractor property and contractor shall remove the same from site without any extra cost to client.		
R2-CS-PLG-23-1	(a) For depth 0 to 5 m below ground level	Sqm	2400
R2-CS-PLG-23-2	(b) For depth 0 to 10 m below ground level	Sqm	3000
R2-CS-PLG-23-3	(c) For depth 0 to 15 m below ground level	Sqm	3400



Piling Work

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-PLG-24	Supplying, fabricating and installing in position waling channel I.S 226 / 2062 quality to sheet piles to correct line and level as per approved drawing and specification with required accessories such as plates, bolt & nuts etc.for connecting with sheet piles as well as for splicing the channels, welding the channel joints to achieve the properties of the section / welding of connecting plates etc including cost and conveyance of all materials, cost of drilling holes, hire charges of equipments, hire charges of crane, cost of electrodes, cost of fixing with bolts, nuts & washers, all labour, painting one coat of zinchromite primer after rubbing and cleaning the surface with mechanical wire brushing, sand paper, other incidentals etc complete.(Rate quoted shall includes supplying, fabricating, drilling holes and fixing waling channels to SSP only ,cost of accessories such as connecting plates, bolts & nuts etc).		
R2-CS-PLG-24.1	(a) For depth 0 to 5 m below ground level	Sqm	600
R2-CS-PLG-24.2	(b) For depth 0 to 10 m below ground level	Sqm	900
R2-CS-PLG-24.3	(c) For depth 0 to 15 m below ground level	Sqm	1200



Chapter -17

Plumbing & Sanitation



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-PS	PLUMBING AND SANITATION WORKS			
	Sanitary Installations			
R2-CS-PS-1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required :			
R2-CS-PS-1-a	White Vitreous china Orissa pattern W.C. pan of size 580x440mm with integral type foot rests.	each	6314	
R2-CS-PS-1-b	Stainless Steel AISI-304(18/8) Orissa pattern W.C. pan of size 585x480 mm with flush pipe and integrated type foot rests.	each	12437	***
R2-CS-PS-2	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required :			
R2-CS-PS-2-a	W.C. pan with ISI marked white solid plastic seat and lid	each	6483	
R2-CS-PS-2-b	W.C. pan with ISI marked black solid plastic seat and lid	each	6483	
R2-CS-PS-3	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I.brackets, 40mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete including painting of fittings and brackets, cutting and making good the walls and floors wherever required :			
R2-CS-PS-3-a	W.C. pan with ISI marked white solid plastic seat and lid.	each	6306	
R2-CS-PS-3-b	W.C. pan with ISI marked black solid plastic seat and lid.	each	6137	***
R2-CS-PS-4	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350mm and 340x410x265mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :			
R2-CS-PS-4-a	One urinal basin with 5 litre white P.V.C. automatic flushing cistern.	each	5065	
R2-CS-PS-4-b	Range of two urinal basins with 5 litre white P.V.C. automatic flushing cistern.	each	7841	
R2-CS-PS-4-c	Range of three urinal basins with 10litre white P.V.C. automatic flushing cistern.	each	10830	
R2-CS-PS-4-d	Range of four urinal basins with 10 litre white P.V.C. automatic flushing cistern.	each	14586	
R2-CS-PS-5	Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass including painting of fittings and cutting and making good the walls and floors wherever required :			
R2-CS-PS-5-a	Single half stall urinal with 5 litre P.V.C. automatic flushing cistern.	each	8982	
R2-CS-PS-5-b	Range of two half stall urinals with 5 litre P.V.C. automatic flushing cistern.	each	13803	
R2-CS-PS-5-c	Range of three half stall urinals with 10 litre P.V.C. automatic flushing cistern.	each	17327	
R2-CS-PS-5-d	Range of four half stall urinals with 10 litre P.V.C. automatic flushing cistern.	each	20784	



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-PS-6	Providing and fixing one piece construction white vitreous china squatting plate with an integral longitudinal flushing pipe, white P.V.C. automatic flushing cistern, with fittings, standard size G.I. / PVC flush pipe for back and front flush with standard spreader pipes with fittings, G.I. clamps and C.P. brass coupling complete including painting of fittings and cutting and making good the walls and floors etc. wherever required :			
R2-CS-PS-6-a	Single squatting plate with 5 litre P.V.C. automatic flushing cistern.	each	6901	
R2-CS-PS-6-b	Range of two squatting plates with 5 litre P.V.C. automatic flushing cistern.	each	10538	
R2-CS-PS-6-c	Range of three squatting plates with 10 litre P.V.C. automatic flushing cistern.	each	13815	
R2-CS-PS-6-d	Range of four squatting plates with 10 litre P.V.C. automatic flushing cistern.	each	16967	
R2-CS-PS-7	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require :			
R2-CS-PS-7-a	White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps.	each	3645	
R2-CS-PS-7-b	White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap.	each	3106	
R2-CS-PS-7-c	White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps.	each	3218	
R2-CS-PS-7-d	White Vitreous China Flat back wash basin size 550x400 mm with single 15 mm C.P. brass pillar tap.	each	2679	
R2-CS-PS-7-e	White Vitreous China Angle back wash basin size 600x480 mm with single 15 mm C.P. brass pillar tap.	each	2893	
R2-CS-PS-7-f	White Vitreous China Angle back wash basin size 400x400 mm with single 15 mm C.P. brass pillar tap.	each	2679	
R2-CS-PS-7-g	White Vitreous China Flat back wash basin size 450x300 mm with single 15 mm C.P. brass pillar tap.	each	2542	
R2-CS-PS-7-h	White Vitreous China Surgeon type wash basin of size 660x460 mm with a pair of 15 mm C.P. brass pillar taps with elbow operated levers.	each	5201	
R2-CS-PS-7-i	White Vitreous China Surgeon type wash basin of size 660x460 mm with single 15 mm C.P. brass pillar taps with elbow operated levers ISI marked.	each	4209	
R2-CS-PS-7-j	Stainless Steel AISI-304(18/8) Round basin 405x355 mm with single 15 mm C.P. brass pillar tap.	each	4303	
R2-CS-PS-7-k	Stainless Steel AISI-304(18/8) Wash basin 530x345 mm with single 15 mm C.P. brass pillar tap.	each	4466	
R2-CS-PS-8	Providing and fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings.	each	1177	



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-PS-9	Providing and fixing kitchen sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P. brass waste complete, including painting the fittings and brackets, cutting and making good the walls wherever required :			
R2-CS-PS-9-a	White glazed fire clay kitchen sink of size 600x450x250 mm.	each	3992	
R2-CS-PS-10	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required :			
R2-CS-PS-10-a	Kitchen sink with drain board			
R2-CS-PS-10-a-1	510x1040 mm bowl depth 250mm.	each	12128	***
R2-CS-PS-10-a-2	510x1040 mm bowl depth 225mm	each	10071	***
R2-CS-PS-10-a-3	510x1040 mm bowl depth 200mm	each	9778	
R2-CS-PS-10-a-4	510x1040 mm bowl depth 178mm.	each	6081	
R2-CS-PS-10-b	Kitchen sink without drain board			
R2-CS-PS-10-b-1	610x510 mm bowl depth 200 mm	each	7359	
R2-CS-PS-10-b-2	610x460 mm bowl depth 200 mm	each	6756	
R2-CS-PS-10-b-3	470x420 mm bowl depth 178 mm	each	5003	
R2-CS-PS-11	Providing and fixing white vitreous china laboratory sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P brass waste and 40mm C.P. brass trap with necessary C.P. brass unions complete including painting of fittings and brackets, cutting and making good the wall wherever required :			
R2-CS-PS-11-a	Size 450x300x150mm	each	3436	
R2-CS-PS-11-b	Size 600x450x200mm	each	4425	
R2-CS-PS-12	Providing and fixing draining board with C.I. brackets including painting of brackets, cutting and making good the walls wherever required :			
R2-CS-PS-12-a	White glazed fire clay draining board of size 600x450x25mm	each	1401	
R2-CS-PS-13	Providing and fixing white vitreous china water closet squatting pan (Indian type)			
R2-CS-PS-13-a	Long pattern W.C. pan of size 580 mm	each	3110	
R2-CS-PS-13-b	Orissa pattern W.C. pan of size 580x440 mm	each	2349	
R2-CS-PS-14	Extra for using coloured W.C. pan instead of white W.C. pan			
R2-CS-PS-14-a	Orissa pattern W.C. pan 580x440 mm	each	778	
R2-CS-PS-15	Providing and fixing white vitreous china pedestal type (European type/ wash down type) water closet pan.	each	3254	
R2-CS-PS-16	Extra for using coloured pedestal type W.C pan (European type) with low level cistern of same colour instead of white vitreous china W.C pan and cistern.	each	1405	
R2-CS-PS-17	Providing and fixing a pair of white vitreous china foot rests of standard pattern for squatting pan water closet:			
R2-CS-PS-17-a	250x130x30 mm	pair	220	
R2-CS-PS-17-b	250x125x25 mm	pair	300	
R2-CS-PS-18	Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete.			



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-PS-18-a	10 litre capacity - White	each	1566	
R2-CS-PS-18-b	10 litre capacity - coloured	each	1709	
R2-CS-PS-19	Providing and fixing controlled flush, low level cistern made of vitreous china with all fittings complete.			
R2-CS-PS-19-a	10 litre (full flush) capacity-white	each	2319	
R2-CS-PS-19-b	10 litre (full flush) capacity-coloured	each	2903	***
R2-CS-PS-20	Providing and fixing solid plastic seat with lid for pedestal type W.C. pan complete :			
R2-CS-PS-20-a	White solid plastic seat with lid	each	643	
R2-CS-PS-20-b	Black solid plastic seat with lid	each	643	
R2-CS-PS-20-c	Coloured (other than black & white) solid plastic seat with lid	each	834	
R2-CS-PS-21	Providing and fixing G.I. inlet connection for flush pipe connecting with W.C. pan.	each	131	
R2-CS-PS-22	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350mm or 340x410x265mm sizes respectively.	each	2014	
R2-CS-PS-23	Providing and fixing white vitreous china squatting plate urinal with integral rim longitudinal flush pipe.	each	3328	
R2-CS-PS-24	Providing and fixing white vitreous china wash basin including making all connections but excluding the cost of fittings :			
R2-CS-PS-24-a	Flat back wash basin of size 630x450mm.	each	1585	
R2-CS-PS-24-b	Flat back wash basin of size 550x400mm.	each	1158	
R2-CS-PS-24-c	Angle back wash basin of size 600x480mm.	each	1372	
R2-CS-PS-24-d	Angle back wash basin of size 400x400mm	each	1158	
R2-CS-PS-24-e	Flat back wash basin of size 450x300mm	each	1021	
R2-CS-PS-24-f	Surgeon type wash basin of size 660x460mm.	each	2143	
R2-CS-PS-25	Providing and fixing kitchen sink including making all connections excluding cost of fittings.			
R2-CS-PS-25-a	White glazed fire clay sink of size 600x450x250mm.	each	2768	***
R2-CS-PS-26	Providing and fixing white vitreous china laboratory sink including making all connections excluding cost of fittings:			
R2-CS-PS-26-a	Size 450x300x150 mm.	each	1805	***
R2-CS-PS-26-b	Size 600x450x200 mm	each	2748	***
R2-CS-PS-27	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.			
R2-CS-PS-27-a	Semi rigid pipe			
R2-CS-PS-27-a-1	32 mm dia	each	40	
R2-CS-PS-27-a-2	40 mm dia	each	68	
R2-CS-PS-27-b	Flexible pipe			



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-PS-27-b-1	32 mm dia	each	88	
R2-CS-PS-27-b-2	40 mm dia	each	87	
R2-CS-PS-28	Providing and fixing 100 mm sand cast Iron grating for Nahani/Floor trap.	each	825	
R2-CS-PS-29	Providing and fixing in position 25mm diameter mosquito proof coupling of approved municipal design.	each	56	
R2-CS-PS-30	Providing and fixing 600x450 mm bevelled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	each	1580	
R2-CS-PS-31	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :			
R2-CS-PS-31-a	Circular shape 450mm dia.	each	1403	
R2-CS-PS-31-b	Rectangular shape 453x357mm	each	1450	
R2-CS-PS-31-c	Oval shape 450x350mm (outer dimensions)	each	1500	
R2-CS-PS-31-d	Rectangular shape 1500x450 mm	each	2579	
	STAINLESS STEEL			
R2-CS-PS-32	Providing and fixing stainless steel pipes AISI-304 including all fittings and accessories etc. complete as directed.			
R2-CS-PS-32-a	15 mm internal dia. (2 mm thick)	Rmt	800	***
R2-CS-PS-32-b	20 mm internal dia. (2 mm thick)	Rmt	925	***
R2-CS-PS-33	Providing and fixing toilet paper holder :			
R2-CS-PS-33-a	C.P. brass	each	1462	
R2-CS-PS-33-b	Vitreous china	each	1269	
R2-CS-PS-34	Providing and fixing soil, waste and vent pipes :			
R2-CS-PS-34-a	100 mm dia			
R2-CS-PS-34-a-1	Sand cast iron S&S pipe as per IS: 1729.	Rmt	1130	
R2-CS-PS-34-a-2	Centrifugally cast (spun) iron socket & spigot (S&S) pipe as per IS: 3989.	Rmt	1264	
R2-CS-PS-34-b	75 mm diameter :			
R2-CS-PS-34-b-1	Sand cast iron S&S pipe as per IS: 1729.	Rmt	919	
R2-CS-PS-34-b-2	Centrifugally cast (spun) iron socketed pipe as per IS: 3989	Rmt	1032	
R2-CS-PS-35	Providing and filling the joints with spun yarn, cement slurry and cement mortar 1:2 (1 cement : 2 fine sand) in S.C.I./ C.I. Pipes :			
R2-CS-PS-35-a	75 mm dia pipe	each	100	
R2-CS-PS-35-b	100 mm dia pipe	each	118	
R2-CS-PS-36	Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) including cost of cutting holes and making good the walls etc. :			
R2-CS-PS-36-a	For 100 mm dia. Pipe	each	213	
R2-CS-PS-36-b	For 75 mm dia. Pipe	each	209	
R2-CS-PS-37	Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.			
R2-CS-PS-37-a	100 mm			



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R2-CS-PS-37-a-1	Sand cast iron S&S as per IS - 1729	each	579	
R2-CS-PS-37-a-2	Sand cast iron S&S as per IS - 3989	each	478	
R2-CS-PS-37-b	75 mm dia			
R2-CS-PS-37-b-1	Sand cast iron S&S as per IS - 1729	each	425	
R2-CS-PS-37-b-2	Sand cast iron S&S as per IS- 3989	each	375	
R2-CS-PS-38	Providing and fixing plain bend of required degree.			
R2-CS-PS-38-a	100 mm			
R2-CS-PS-38-a-1	Sand cast iron S&S as per IS - 1729	each	486	
R2-CS-PS-38-a-2	Sand cast iron S&S as per IS : 3989	each	409	
R2-CS-PS-38-b	75 mm			
R2-CS-PS-38-b-1	Sand cast iron S&S as per IS -1729	each	332	
R2-CS-PS-38-b-2	Sand cast iron S&S as per IS - 3989	each	332	
R2-CS-PS-39	Providing and fixing heel rest sanitary bend			
R2-CS-PS-39-a	100 mm dia			
R2-CS-PS-39-a-1	Sand cast iron S&S as per IS - 1729	each	582	
R2-CS-PS-39-a-2	Sand cast iron S&S as per IS - 3989	each	582	
R2-CS-PS-39-b	75 mm			
R2-CS-PS-39-b-1	Sand cast iron S&S as per IS - 1729	each	431	
R2-CS-PS-39-b-2	Sand cast iron S&S as per IS - 3989	each	431	
R2-CS-PS-40	Providing and fixing double equal junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete :			
R2-CS-PS-40-a	100x100x100x100mm			
R2-CS-PS-40-a-1	Sand cast iron S&S as per IS - 1729	each	1180	
R2-CS-PS-40-a-2	Sand cast iron S&S as per IS - 3989	each	1437	
R2-CS-PS-40-b	75x75x75x75 mm			
R2-CS-PS-40-b-1	Sand cast iron S&S as per IS - 1729	each	894	
R2-CS-PS-40-b-2	Sand cast iron S&S as per IS - 3989	each	973	
R2-CS-PS-41	Providing and fixing double equal plain junction of required degree.			
R2-CS-PS-41-a	100x100x100x100 mm			
R2-CS-PS-41-a-1	Sand cast iron S&S as per IS - 1729	each	1047	
R2-CS-PS-41-a-2	Sand cast iron S&S as per IS - 3989	each	1300	
R2-CS-PS-41-b	75x75x75x75 mm			
R2-CS-PS-41-b-1	Sand cast iron S&S as per IS - 1729	each	763	



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-PS-41-b-2	Sand cast iron S&S as per IS - 3989	each	936	
R2-CS-PS-42	Providing and fixing single equal plain junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.			
R2-CS-PS-42-a	100x100x100 mm			
R2-CS-PS-42-a-1	Sand cast iron S&S as per IS - 1729	each	1593	
R2-CS-PS-42-a-2	Sand cast iron S&S as per IS - 3989	each	1191	
R2-CS-PS-42-b	75x75x75 mm			
R2-CS-PS-42-b-1	Sand cast iron S&S as per IS - 1729	each	691	
R2-CS-PS-42-b-2	Sand cast iron S&S as per IS - 3989	each	827	
R2-CS-PS-43	Providing and fixing single equal plain junction of required degree :			
R2-CS-PS-43-a	100x100x100 mm			
R2-CS-PS-43-a-1	Sand cast iron S&S as per IS - 1729	each	896	
R2-CS-PS-43-a-2	Sand cast iron S&S as per IS - 3989	each	1061	
R2-CS-PS-43-b	75x75x75 mm			
R2-CS-PS-43-b-1	Sand cast iron S&S as per IS - 1729	each	657	
R2-CS-PS-43-b-2	Sand cast iron S&S as per IS - 3989	each	750	
R2-CS-PS-44	Providing and fixing double unequal junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete :			
R2-CS-PS-44-a	100x100x75x75 mm			
R2-CS-PS-44-a-1	Sand cast iron S&S as per IS - 1729	each	974	
R2-CS-PS-44-a-2	Sand cast iron S&S as per IS - 3989	each	2069	
R2-CS-PS-45	Providing and fixing double unequal plain junction of required degree:			
R2-CS-PS-45-a	100x100x75x75 mm			
R2-CS-PS-45-a-1	Sand cast iron S&S as per IS - 1729	each	914	**
R2-CS-PS-45-a-2	Sand cast iron S&S as per IS - 3989	each	1978	***
R2-CS-PS-46	Providing and fixing single unequal junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete :			
R2-CS-PS-46-a	100x100x75 mm			
R2-CS-PS-46-a-1	Sand cast iron S&S as per IS - 1729	each	792	**
R2-CS-PS-46-a-2	Sand cast iron S&S as per IS - 3989	each	1497	***
R2-CS-PS-47	Providing and fixing single unequal plain junction of required degree :			
R2-CS-PS-47-a	100x100x75 mm			
R2-CS-PS-47-a-1	Sand cast iron S&S as per IS - 1729	each	575	
R2-CS-PS-47-a-2	Sand cast iron S&S as per IS - 3989	each	1413	



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-PS-48	Providing and fixing double equal plain invert branch of required degree			
R2-CS-PS-48-a	100x100x100x100 mm			
R2-CS-PS-48-a-1	Sand cast iron S&S as per IS - 1729	each	834	
R2-CS-PS-48-a-2	Sand cast iron S&S as per IS 3989	each	950	
R2-CS-PS-48-b	75x75x75x75 mm			
R2-CS-PS-48-b-1	Sand cast iron S&S as per IS - 1729	each	660	
R2-CS-PS-48-b-2	Sand cast iron S&S as per IS - 3989	each	799	
R2-CS-PS-49	Providing and fixing single equal plain invert branch of required degree:			
R2-CS-PS-49-a	100x100x100 mm			
R2-CS-PS-49-a-1	Sand cast iron S&S as per iron 1729	each	647	
R2-CS-PS-49-a-2	Sand cast iron S&S as per IS - 3989	each	808	
R2-CS-PS-49-b	75x75x75 mm			
R2-CS-PS-49-b-1	Sand cast iron S&S as per IS - 1729	each	536	
R2-CS-PS-49-b-2	Sand cast iron S&S as per IS - 3989	each	1282	
R2-CS-PS-50	Providing and fixing double unequal invert branch of required degree :			
R2-CS-PS-50-a	100x100x75x75 mm			
R2-CS-PS-50-a-1	Sand cast iron S&S as per IS - 1729	each	928	
R2-CS-PS-50-a-2	Sand cast iron S&S as per IS - 3989	each	1220	
R2-CS-PS-51	Providing degree : and fixing single unequal plain invert branch of required			
R2-CS-PS-51-a	100x100x75 mm			
R2-CS-PS-51-a-1	Sand cast iron S&S as per IS - 1729	each	807	
R2-CS-PS-51-a-2	Sand cast iron S&S as per IS - 3989	each	904	
R2-CS-PS-52	Providing and fixing sand cast iron S&S off sets as per IS: 1729			
R2-CS-PS-52-a	76 mm off sets			
R2-CS-PS-52-a-1	With 75 mm dia. pipe	each	431	
R2-CS-PS-52-a-2	With 100 mm dia. pipe	each	497	
R2-CS-PS-52-b	114 mm off sets			
R2-CS-PS-52-b-1	With 75 mm dia. pipe	each	449	
R2-CS-PS-52-b-2	With 100 mm dia. Pipe	each	502	
R2-CS-PS-52-c	152 mm off sets			
R2-CS-PS-52-c-1	With 75 mm dia. Pipe	each	781	
R2-CS-PS-52-c-2	With 100 mm dia. Pipe	each	859	



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-PS-53	Providing and fixing sand cast iron S&S off sets as per IS: 3989			
R2-CS-PS-53-a	75 mm off sets			
R2-CS-PS-53-a-1	With 75 mm dia. pipe	each	431	
R2-CS-PS-53-b	150 mm off sets			
R2-CS-PS-53-b-1	With 75 mm dia. pipe	each	546	
R2-CS-PS-53-b-2	With 100 mm dia. Pipe	each	617	
R2-CS-PS-54	Providing and fixing door piece, insertion rubber washer 3mm thick, bolts & nuts complete :			
R2-CS-PS-54-a	100mm			
R2-CS-PS-54-a-1	Sand cast iron S&S as per IS - 1729	each	582	
R2-CS-PS-54-a-2	Sand cast iron S&S as per IS - 3989	each	169	
R2-CS-PS-54-b	75mm			
R2-CS-PS-54-b-1	Sand cast iron S&S as per IS - 1729	each	425	
R2-CS-PS-54-b-2	Sand cast iron S&S as per IS - 3989	each	122	
R2-CS-PS-55	Providing and fixing terminal guard:			
R2-CS-PS-55-a	100mm			
R2-CS-PS-55-a-1	Sand cast iron S&S as per IS - 1729	each	406	
R2-CS-PS-55-a-2	Sand cast iron S&S as per IS - 3989	each	414	
R2-CS-PS-55-b	75 mm			
R2-CS-PS-55-b-1	Sand cast iron S&S as per IS - 1729	each	322	
R2-CS-PS-55-b-2	Sand cast iron S&S as per IS - 3989	each	359	
R2-CS-PS-56	Providing and fixing collar:			
R2-CS-PS-56-a	100 mm			
R2-CS-PS-56-a-1	Sand cast iron S&S as per IS - 1729	each	244	
R2-CS-PS-56-a-2	Sand cast iron S&S as per IS - 3989	each	348	
R2-CS-PS-56-b	75 mm			
R2-CS-PS-56-b-1	Sand cast iron S&S as per IS - 1729	each	304	
R2-CS-PS-56-b-2	Sand cast iron S&S as per IS- 3989	each	322	
R2-CS-PS-57	Providing lead caulked joints to sand cast iron/centrifugally cast (spun) iron pipes and fittings of diameter:			
R2-CS-PS-57-a	100 mm	each	328	
R2-CS-PS-57-b	75 mm	each	275	
R2-CS-PS-57-c	50 mm	each	218	
R2-CS-PS-58	Providing and fixing M.S. stays and clamps for sand cast iron/centrifugally cast (spun) iron pipes of diameter :			
R2-CS-PS-58-a	100 mm	each	43	



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-PS-58-b	75 mm	each	72	
R2-CS-PS-58-c	50 mm	each	34.00	
R2-CS-PS-59	Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors :			
R2-CS-PS-59-a	100 mm inlet and 100 mm outlet			
R2-CS-PS-59-a-1	Sand cast iron S&S as per IS: 3989.	each	1499	
R2-CS-PS-59-a-2	Sand Cast Iron S&S as per IS: 1729.	each	1179	
R2-CS-PS-59-b	100 mm inlet and 75 mm outlet			
R2-CS-PS-59-b-1	Sand cast iron S&S as per IS - 3989	each	1391	
R2-CS-PS-59-b-2	Sand Cast Iron S&S as per IS- 1729.	each	1179	
R2-CS-PS-60	Cutting chases in brick masonry walls for following diameter sand cast iron/ centrifugally cast (spun) iron pipes and making good the same with cement concrete 1:3:6 (1 cement : 3 coarse sand :6 graded stone aggregate 12.5 mm nominal size) including necessary plaster and pointing in cement mortar 1:4 (1 cement : 4 coarse sand) :			
R2-CS-PS-60-a	100 mm dia.	Rmt	444	
R2-CS-PS-60-b	75 mm dia.	Rmt	318	
R2-CS-PS-60-c	50 mm dia.	Rmt	205	
R2-CS-PS-61	Painting C.I. cistern with bitumastic or any other anti-corrosive paint inside and white paint over a coat of zinc chromate yellow primer (of approved quality) on the outside surface of the cistern, flush pipe, other fittings, etc. complete for new work.	each	684	
R2-CS-PS-62	Re-painting C.I. cistern with bitumastic or any other anti-corrosive paint inside and white paint on the outside surface of the cistern, flush pipe, other fittings, etc. complete including polishing of wooden seat and lid and cleaning of W.C. pan with acid wherever necessary.	each	400	
R2-CS-PS-63	Repainting C.I. cistern with synthetic enamel paint of approved colour, brand and manufacture on the outside surface of cistern, flush pipe, other fittings etc. complete.	each	180	
R2-CS-PS-64	Painting sand cast iron/ centrifugally cast (spun) iron soil, waste vent pipes and fittings with two coats of synthetic enamel paint of any colour such as chocolate grey, or buff etc. over a coat of primer (of approved quality) for new work :			
R2-CS-PS-64-a	100 mm diameter pipe	Rmt	32	
R2-CS-PS-64-b	75 mm diameter pipe	Rmt	25	
R2-CS-PS-65	Repainting sand cast iron/ centrifugally cast iron (spun) iron, soil, waste, vent pipes and fittings with one coat of synthetic enamel paint of any colour such as chocolate, grey or buff etc :			
R2-CS-PS-65-a	100 mm diameter pipe	Rmt	25	
R2-CS-PS-65-b	75 mm diameter pipe	Rmt	19	
R2-CS-PS-66	Repainting bath tub of size 1700x730x430mm with enamel paint.	each	510	



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-PS-67	Providing and fixing vitreous china dual purpose closet suitable for use as squatting pan or European type water closet (Anglo Indian W.C pan) with seat & lid fixed with C.P. brass hinges and rubber buffers, 10 litre low level flushing cistern with fitting and brackets, 40mm flush bend, 20mm over flow pipe, with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :			
R2-CS-PS-67-a	White vitreous china dual purpose WC pan with white solid plastic seat and lid with white vitreous china flushing cistern and C.P. flush bend.	each	7894	
R2-CS-PS-67-b	Waste coupling 31 mm dia of 79 mm length and 62mm breadth weighing not less than 45gms.	each	155	
R2-CS-PS-67-c	Waste coupling 38 mm dia of 83 mm length and 77mm breadth, weighing not less than 60gms.	each	155	
R2-CS-PS-68	Providing and fixing PTMT Bottle Trap for Wash basin and sink			
R2-CS-PS-68-a	Bottle trap 31mm single piece moulded with height of 270mm, effective length of tail pipe 260mm from the centre of the waste coupling 77mm breadth with 25mm minimum water seal, weighing not less than 260gms.	each	408	
R2-CS-PS-68-b	Bottle trap 38mm single piece moulded with height of 270mm, effective length of tail pipe 260mm from the centre of the waste coupling 77mm breadth with 25mm minimum water seal, weighing not less than 263gms.	each	368	
R2-CS-PS-69	Providing and fixing PTMT liquid soap container 109mm wide, 125mm high and 112mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour. weighing not less than 105 gms.	each	385	
R2-CS-PS-70	Providing and fixing PTMT towel ring trapezoidal shape 215mm long, 200mm wide with a minimum distances of 37mm from wall face with concealed fittings arrangement of approved quality and colour. Weighing not less than 88 gms.	each	235	
R2-CS-PS-71	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality and colour.			
R2-CS-PS-71-a	450MM long towel rail with total length of 495mm, 78mm wide and effective height of 88mm, weighing not less than 170gms.	each	1281	
R2-CS-PS-71-b	600mm long towel rail with total length of 645mm, width 78mm and effective height of 88mm, weighing not less than 190gms.	each	1321	
R2-CS-PS-72	Providing and fixing PTMT shelf 440 mm long, 124 mm width and 36 mm height of approved quality and colour. Weighing not less than 300 gms.	each	1507	
R2-CS-PS-73	Providing and fixing PTMT 15 mm Urinal spreader size 95x69x100 mm with 1/2" BSP thread and shapes. Weighing not less than 60 gms.	each	186	
R2-CS-PS-74	Providing and fixing PTMT urinal cock of approved quality and colour.			
R2-CS-PS-74-a	15 mm nominal bore, 80mm long. 42 mm high and 30mm wide with BSP female threads weighing not less than 48gms.	each	227	



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-PS-75	Providing and fixing M.S. holder bat clamp of approved design to sand cast iron/ cast iron (spun) pipes comprising of M.S. flat brackets made of 50x5mm flat of specified shape, projecting 75mm outside the wall surface and fixed on wall with 4nos, 8mm dia expansion hold fasteners including drilling necessary holes in brick wall/ CC/ RCC surface and the cost of bolts etc. The pipes shall be fixed to the already fixed brackets with the help of 30mm x1.6mm galvanised M.S. flats of specified shape and of total length 420mm and shall be fixed with M.S. nuts, bolts, & washers of size 25x8mm, one bolts on each side of the pipe.			
R2-CS-PS-75-a	Total bracket length 580mm of approved shape and design (for single 100mm dia pipe).	each	950	
R2-CS-PS-75-b	Total bracket length 810mm of approved shape and design (for two 100mm dia pipes).	each	997	
R2-CS-PS-75-c	Total bracket length 1040mm of approved shape and design (for three 100mm dia pipes).	each	1044	
R2-CS-PS-76	Providing and fixing white vitreous china extended wall mounting water closet of size 780x370x690 mm of approved shape including providing & fixing white vitreous china cistern with dual flush fitting, of flushing capacity 3 litre/6 litre (adjustable to 4 litre/8 litres), including seat cover, and cistern fittings, nuts, bolts and gasket etc complete.	each	15556	
R2-CS-PS-77	Providing & fixing white vitreous china water less urinal of size 600 x 330 x 315 mm having antibacterial /germs free ceramic surface, fixed with cartridge having debris catcher and hygiene seal.	each	6668	***
R2-CS-PS-78	Providing and fixing white vitreous china battery based infrared sensor operated urinal of approx. size 610 x 390 x 370 mm having pre & post flushing with water (250 ml & 500 ml consumption), having water inlet from back side, including fixing to wall with suitable brackets all as per manufacturers specification and direction of Engineer-in-charge..	each	21317	***
	Water Supply			
	PP- R PIPES			
R2-CS-PS-82	Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes SDR 7.4, U V stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes testing of joints complete as per direction of Engineer in Charge.			
	Internal work - Exposed on wall			
R2-CS-PS-82-a	PN - 16 Pipe, 16 mm OD	Rmt	196	
R2-CS-PS-82-b	PN - 16 Pipe, 20 mm OD	Rmt	229	
R2-CS-PS-82-c	PN - 16 Pipe, 25 mm OD	Rmt	291	
R2-CS-PS-82-d	PN - 16 Pipe, 32 mm OD	Rmt	403	
R2-CS-PS-82-e	PN - 16 Pipe, 40 mm OD	Rmt	584	
R2-CS-PS-82-f	PN - 16 Pipe, 50 mm OD	Rmt	830	



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-PS-83	Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes SDR 7.4, U V stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.			
	Concealed work, including cutting chases and making good the walls etc.,			
R2-CS-PS-83-a	PN - 16 Pipe, 16 mm OD	Rmt	312	
R2-CS-PS-83-b	PN - 16 Pipe, 20 mm OD	Rmt	378	
R2-CS-PS-83-c	PN - 16 Pipe, 25 mm OD	Rmt	444	
R2-CS-PS-83-d	PN - 16 Pipe, 32 mm OD	Rmt	570	
R2-CS-PS-84	Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes, U V stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, including trenching, refilling & testing of joints complete as per direction of Engineer in Charge.			
	External work			
R2-CS-PS-84-a	PN - 16 Pipe, 16 mm OD (SDR - 7.4)	Rmt	176	
R2-CS-PS-84-b	PN - 16 Pipe, 20 mm OD (SDR - 7.4)	Rmt	199	
R2-CS-PS-84-c	PN - 16 Pipe, 25 mm OD (SDR - 7.4)	Rmt	257	
R2-CS-PS-84-d	PN - 16 Pipe, 32 mm OD (SDR - 7.4)	Rmt	350	
R2-CS-PS-84-e	PN - 16 Pipe, 40 mm OD (SDR - 7.4)	Rmt	495	
R2-CS-PS-84-f	PN - 16 Pipe, 50 mm OD (SDR - 7.4)	Rmt	741	
R2-CS-PS-84-g	PN - 16 Pipe, 63 mm OD (SDR - 7.4)	Rmt	1129	
R2-CS-PS-84-h	PN - 16 Pipe, 75 mm OD (SDR - 7.4)	Rmt	1511	
R2-CS-PS-84-i	PN - 16 Pipe, 90 mm OD (SDR - 7.4)	Rmt	2202	
R2-CS-PS-84-j	PN - 10 Pipe, 110 mm OD (SDR - 11)	Rmt	3202	
R2-CS-PS-84-k	PN - 10 Pipe, 160 mm OD (SDR - 11)	Rmt	8246	
	C.P.V.C. PIPES			
R2-CS-PS-85	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.			
	Internal work - Exposed on wall			
R2-CS-PS-85-a	15 mm nominal outer dia Pipes	Rmt	206	
R2-CS-PS-85-b	20 mm nominal outer dia Pipes	Rmt	261	
R2-CS-PS-85-c	25 mm nominal outer dia Pipes	Rmt	279	
R2-CS-PS-85-d	32 mm nominal outer dia Pipes	Rmt	374	
R2-CS-PS-85-e	40 mm nominal outer dia Pipes	Rmt	567	
R2-CS-PS-85-f	50 mm nominal outer dia Pipes	Rmt	810	
R2-CS-PS-86	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.			
	Concealed work, including cutting chases and making good the walls etc.			
R2-CS-PS-86-a	15 mm nominal outer dia Pipes	Rmt	346	
R2-CS-PS-86-b	20 mm nominal outer dia Pipes	Rmt	405	
R2-CS-PS-86-c	25 mm nominal outer dia Pipes	Rmt	429	
R2-CS-PS-86-d	32 mm nominal outer dia Pipes	Rmt	531	



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-PS-87	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge.			
	External work			
R2-CS-PS-87-a	15 mm nominal outer dia Pipes	Rmt	176	
R2-CS-PS-87-b	20 mm nominal outer dia Pipes	Rmt	219	
R2-CS-PS-87-c	25 mm nominal outer dia Pipes	Rmt	245	
R2-CS-PS-87-d	32 mm nominal outer dia Pipes	Rmt	321	
R2-CS-PS-87-e	40 mm nominal outer dia Pipes	Rmt	479	
R2-CS-PS-87-f	50 mm nominal outer dia Pipes	Rmt	722	
R2-CS-PS-87-g	62.50 mm nominal inner dia Pipes	Rmt	1698	
R2-CS-PS-87-h	75 mm nominal inner dia Pipes	Rmt	2313	
R2-CS-PS-87-i	100 mm nominal inner dia Pipes	Rmt	3275	
R2-CS-PS-87-j	150 mm nominal inner dia Pipes	Rmt	5827	
	G.I.(Galvanised Iron)			
R2-CS-PS-88	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.			
	Internal work - Exposed on wall			
R2-CS-PS-88-a	15 mm dia nominal bore	Rmt	231	
R2-CS-PS-88-b	20 mm dia nominal bore	Rmt	274	
R2-CS-PS-88-c	25 mm dia nominal bore	Rmt	337	
R2-CS-PS-88-d	32 mm dia nominal bore	Rmt	412	
R2-CS-PS-88-e	40 mm dia nominal bore	Rmt	499	
R2-CS-PS-88-f	50 mm dia nominal bore	Rmt	649	
	Concealed work, including cutting chases and making good the			
R2-CS-PS-89	Providing and fixing G.I. Pipes complete with G.I. fittings and clamps, i/c making good the walls etc. concealed pipe, including painting with anti corrosive bitumastic paint, cutting chases and making good the wall :			
R2-CS-PS-89-a	15 mm dia nominal bore	Rmt	359	
R2-CS-PS-89-b	20 mm dia nominal bore	Rmt	391	
R2-CS-PS-90	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc.			
	External work			
R2-CS-PS-90-a	15 mm dia nominal bore	Rmt	199	
R2-CS-PS-90-b	20 mm dia nominal bore	Rmt	226	
R2-CS-PS-90-c	25 mm dia nominal bore	Rmt	281	
R2-CS-PS-90-d	32 mm dia nominal bore	Rmt	331	
R2-CS-PS-90-e	40 mm dia nominal bore	Rmt	376	
R2-CS-PS-90-f	50 mm dia nominal bore	Rmt	470	
R2-CS-PS-90-g	65 mm dia nominal bore	Rmt	590	
R2-CS-PS-90-h	80 mm dia nominal bore	Rmt	719	
R2-CS-PS-91	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete :			
R2-CS-PS-91-a	25 to 40 mm nominal bore	each	525	
R2-CS-PS-91-b	50 to 80 mm nominal bore	each	949	
R2-CS-PS-92	Fixing water meter and stop cock in G.I. pipe line including cutting and threading the pipe and making long screws etc. complete (cost of water meter and stop cock to be paid separately).	each	478	
	BRASS FITTINGS			
R2-CS-PS-93	Providing and fixing brass bib cock of approved quality :			
R2-CS-PS-93-a	15 mm nominal bore	each	313	
R2-CS-PS-93-b	20 mm nominal bore	each	449	
R2-CS-PS-94	Providing and fixing brass stop cock of approved quality :			
R2-CS-PS-94-a	15 mm nominal bore	each	313	
R2-CS-PS-94-b	20 mm nominal bore	each	449	



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-PS-95	Providing and fixing gun metal gate valve with C.I. wheel of approved			
	quality (screwed end) :			
R2-CS-PS-95-a	25 mm nominal bore	each	578	
R2-CS-PS-95-b	32 mm nominal bore.	each	886	
R2-CS-PS-95-c	40 mm nominal bore	each	1221	
R2-CS-PS-95-d	50 mm nominal bore	each	2021	
R2-CS-PS-95-e	65 mm nominal bore	each	3752	
R2-CS-PS-95-f	80 mm nominal bore	each	8013	
R2-CS-PS-96	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :			
R2-CS-PS-96-a	15 mm nominal bore	each	393	
R2-CS-PS-96-b	20 mm nominal bore	each	520	
R2-CS-PS-96-c	25 mm nominal bore	each	585	
R2-CS-PS-97	Providing and fixing gun metal non- return valve of approved quality (screwed end) :			
R2-CS-PS-97-a	25 mm nominal bore		Refer HE-7-19	
R2-CS-PS-97-a-1	Horizontal	each		
R2-CS-PS-97-a-2	Vertical	each		
R2-CS-PS-97-b	32 mm nominal bore			
R2-CS-PS-97-b-1	Horizontal	each		
R2-CS-PS-97-b-2	Vertical	each		
R2-CS-PS-97-c	40 mm nominal bore			
R2-CS-PS-97-c-1	Horizontal	each		
R2-CS-PS-97-c-2	Vertical	each		
R2-CS-PS-97-d	50 mm nominal bore			
R2-CS-PS-97-d-1	Horizontal	each		
R2-CS-PS-97-d-2	Vertical	each		
R2-CS-PS-97-e	65 mm nominal bore			
R2-CS-PS-97-e-1	Horizontal	each		
R2-CS-PS-97-e-2	Vertical	each		
R2-CS-PS-97-f	80 mm nominal bore			
R2-CS-PS-97-f-1	Horizontal	each		
R2-CS-PS-97-f-2	Vertical	each		
R2-CS-PS-98	Providing and fixing brass ferrule with C.I. mouth cover including boring and tapping the main :		HE-7-24	
R2-CS-PS-98-a	15 mm nominal bore	each		
R2-CS-PS-98-b	20 mm nominal bore	each		
R2-CS-PS-98-c	25 mm nominal bore	each		
R2-CS-PS-98-d	upto 50mm			
	UPVC			
R2-CS-PS-99	Providing and fixing uPVC connection pipe with brass unions :			
R2-CS-PS-99-a	30 cm length			
R2-CS-PS-99-a-1	15 mm nominal bore	each	68	
R2-CS-PS-99-a-2	20 mm nominal bore	each	84	
R2-CS-PS-99-b	45 cm length			
R2-CS-PS-99-b-1	15 mm nominal bore	each	86	
R2-CS-PS-99-b-2	20 mm nominal bore	each	98	
R2-CS-PS-100	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :			
R2-CS-PS-100-a	100 mm diameter		411	
R2-CS-PS-100-b	150 mm diameter		746	
	C.I/ DUCTILE IRON PIPES & SPECIALS			
R2-CS-PS-101	Laying in position centrifugally cast (spun) iron S&S or flanged pipes and S&S C.I. standard specials such as tees, bends, of Class LA (excluding cost of pipe and specials).			
	80 mm.	R.M	Refer HE-1-2	
	100 mm.	R.M		
	150 mm.	R.M		
	200 mm.	R.M		



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
	250 mm.	R.M		
	300 mm.	R.M		
R2-CS-PS-102	Providing and laying S&S C.I. standard specials such as tees, bends, collars, tapers, caps etc. (Heavy class) :			
R2-CS-PS-102-a	Up to 300 mm dia	Kg	Refer HE-1-12	
R2-CS-PS-103	Providing and laying S&S C.I. standard specials such as tees, bends, collars, tapers, caps etc. (Heavy class) :			
R2-CS-PS-103-a	Over 300 mm dia	Kg		
R2-CS-PS-104	Providing and laying flanged C.I. standard specials such as tees, bends, collars, tapers, caps etc., suitable for flanged jointing as per IS : 1538 :			
R2-CS-PS-104-a	Up to 300 mm dia	Kg	Refer HE-1-12	
R2-CS-PS-104-b	Over 300 mm dia	Kg		
R2-CS-PS-105	Providing and laying S&S centrifugally cast (spun) iron pipes (Class LA) conforming to IS - 1536 :			
R2-CS-PS-105-a	100 mm dia pipe	Rmt	Refer HE-1-1	
R2-CS-PS-105-b	125 mm dia pipe	Rmt		
R2-CS-PS-105-c	150 mm dia pipe	Rmt		
R2-CS-PS-105-d	200 mm dia pipe	Rmt		
R2-CS-PS-105-e	250 mm dia pipe	Rmt		
R2-CS-PS-105-f	300 mm dia pipe	Rmt		
R2-CS-PS-106	Providing lead caulked joints to spun iron or C.I. pipes and specials, including testing of joints but excluding the cost of pig lead :			
R2-CS-PS-106-a	100 mm dia pipe	each	Refer HE-1-15	
R2-CS-PS-106-b	125 mm dia pipe	each		
R2-CS-PS-106-c	150 mm dia pipe	each		
R2-CS-PS-106-d	200 mm dia pipe	each		
R2-CS-PS-106-e	250 mm dia pipe	each		
R2-CS-PS-106-f	300 mm dia pipe	each		
R2-CS-PS-107	Supplying pig lead at site of work.	quintal	12,635	
R2-CS-PS-108	Providing flanged joints C.I./D.I. pipes and specials, including testing of joints :			
R2-CS-PS-108-a	80 mm diameter pipe	each	Refer HE-1-17	
R2-CS-PS-108-b	100 mm diameter pipe	each		
R2-CS-PS-108-c	150 mm diameter pipe	each		
R2-CS-PS-108-d	200 mm diameter pipe	each		
R2-CS-PS-108-e	250 mm diameter pipe	each		
R2-CS-PS-108-f	300 mm diameter pipe	each		
	C.I. SLUICE VALVES/ FIRE HYDRANTS & FIXTURES			
R2-CS-PS-109	Providing and fixing C.I. sluice valves (with cap) complete with bolts, nuts, rubber insertions etc. (the tail pieces if required will be paid separately) :			
R2-CS-PS-109-a	100 mm diameter			
R2-CS-PS-109-a-1	Class I	each	7,956	
R2-CS-PS-109-a-2	Class II	each	22,909	
R2-CS-PS-109-b	125 mm diameter			
R2-CS-PS-109-b-1	Class I	each	9,664	
R2-CS-PS-109-b-2	Class II	each	26,753	
R2-CS-PS-109-c	150 mm diameter			
R2-CS-PS-109-c-1	Class I	each	9,983	
R2-CS-PS-109-c-2	Class II	each	24,616	
R2-CS-PS-109-d	200 mm diameter			
R2-CS-PS-109-d-1	Class I	each	15,361	
R2-CS-PS-109-d-2	Class II	each	39,912	
R2-CS-PS-109-e	250 mm diameter			
R2-CS-PS-109-e-1	Class I	each	25,021	



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-PS-109-e-2	Class II	each	58,586	
R2-CS-PS-109-f	300 mm diameter			
R2-CS-PS-109-f-1	Class I	each	29,917	
R2-CS-PS-109-f-2	Class II	each	74,987	
R2-CS-PS-110	Constructing masonry Chamber 30x30x50 cm inside, in brick work in cement mortar 1:4 (1 cement :4 coarse sand) for stop cock, with C. I. surface box 100x100 x75 mm (inside) with hinged cover fixed in cement concrete slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), i/c necessary excavation, foundation concrete 1:4:8 (1 cement : 5 fine sand : 10 graded stone aggregate 40mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12mm thick, finished with a floating coat of neat cement complete as per standard design :			
R2-CS-PS-110-a	With common burnt clay F.P.S.(non modular) bricks of class designation 3.5			
		each	1,488	
R2-CS-PS-111	Constructing masonry Chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) , i/c necessary excavation, foundation concrete 1:4:8 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :			
R2-CS-PS-111-a	With common burnt clay F.P.S.(non modular) bricks of class designation 3.5	each	8,468	
R2-CS-PS-112	Constructing masonry Chamber 90x90x100 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100 mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) , i/c necessary excavation, foundation concrete 1:4:8 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :			
R2-CS-PS-112-a	With common burnt clay F.P.S.(non modular) bricks of class designation 3.5	each	14,675	
R2-CS-PS-113	Constructing masonry Chamber 120x120x100 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100 mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) , i/c necessary excavation, foundation concrete 1:4:8 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :			
R2-CS-PS-113-a	With common burnt clay F.P.S.(non modular) bricks of class designation 3.5	each	20,314	



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-PS-114	Constructing masonry Chamber 60x60x75 cm, inside in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for fire hydrants, with C.I. surface box 350x350 mm top and 165 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) , i/c necessary excavation, foundation concrete 1:4:8 (1 cement : 5 fine sand:10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :			
R2-CS-PS-114-a	With common burnt clay F.P.S.(non modular) bricks of class designation 3.5	each	8,030	
R2-CS-PS-115	Constructing masonry Chamber 60x45x50 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for water meter complete with C.I. double flap surface box 400x200x200 mm (inside) with locking arrangement and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) , i/c necessary excavation, foundation concrete 1:4:8 (1 cement : 5 fine sand:10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :			
R2-CS-PS-115-a	With common burnt clay F.P.S.(non modular) bricks of class designation 3.5	each	7,491	
R2-CS-PS-116	Painting G.I. pipes and fittings with synthetic enamel white paint with two coats over a ready mixed priming coat both of approved quality for new work :			
R2-CS-PS-116-a	15 mm diameter pipe	Rmt	8	
R2-CS-PS-116-b	20 mm diameter pipe	Rmt	9	
R2-CS-PS-116-c	25 mm diameter pipe	Rmt	12	
R2-CS-PS-116-d	32 mm diameter pipe	Rmt	14	
R2-CS-PS-116-e	40 mm diameter pipe	Rmt	17	
R2-CS-PS-116-f	50 mm diameter pipe	Rmt	20	
R2-CS-PS-117	Repainting G.I. pipes and fittings with synthetic enamel white paint with one coat of approved quality :			
R2-CS-PS-117-a	15 mm diameter pipe	Rmt	7	
R2-CS-PS-117-b	20 mm diameter pipe	Rmt	8	
R2-CS-PS-117-c	25 mm diameter pipe	Rmt	10	
R2-CS-PS-117-d	32 mm diameter pipe	Rmt	11	
R2-CS-PS-117-e	40 mm diameter pipe	Rmt	13	
R2-CS-PS-117-f	50 mm diameter pipe	Rmt	15	
R2-CS-PS-118	Painting G.I. pipes and fittings with two coats of anti-corrosive bitumastic paint of approved quality :			
R2-CS-PS-118-a	15 mm diameter pipe	Rmt	6	
R2-CS-PS-118-b	20 mm diameter pipe	Rmt	7	
R2-CS-PS-118-c	25 mm diameter pipe	Rmt	9	
R2-CS-PS-118-d	32 mm diameter pipe	Rmt	10	
R2-CS-PS-118-e	40 mm diameter pipe	Rmt	12	
R2-CS-PS-118-f	50 mm diameter pipe	Rmt	14	
R2-CS-PS-118-g	65 mm diameter pipe	Rmt	17	
R2-CS-PS-118-h	80 mm diameter pipe	Rmt	19	
R2-CS-PS-119	Providing and filling sand of grading zone V or coarser grade, allround the G.I. pipes in external work :			
R2-CS-PS-119-a	15 mm diameter pipe	Rmt	235	
R2-CS-PS-119-b	20 mm diameter pipe	Rmt	238	
R2-CS-PS-119-c	25 mm diameter pipe	Rmt	244	
R2-CS-PS-119-d	32 mm diameter pipe	Rmt	250	
R2-CS-PS-119-e	40 mm diameter pipe	Rmt	254	



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-PS-119-f	50 mm diameter pipe	Rmt	263	
R2-CS-PS-119-g	65 mm diameter pipe	Rmt	415	
R2-CS-PS-119-h	80 mm diameter pipe	Rmt	428	
R2-CS-PS-119-i	100 mm diameter pipe	Rmt	453	
R2-CS-PS-119-j	150 mm diameter pipe	Rmt	675	
R2-CS-PS-120	Boring with 100 mm diameter casing pipe for hand pump / tubewell, in all soils except ordinary hard rocks requiring blasting, including removing the casing pipe after the hand pump / tube well is lowered and tested :			
R2-CS-PS-120-a	Up to 6 metres depth	Rmt	477	
R2-CS-PS-120-b	Beyond 6 m and up to 12 m depth	Rmt	556	
R2-CS-PS-120-c	Beyond 12 m and up to 18 m depth	Rmt	821	
R2-CS-PS-121	Providing and placing in position filters of 40 mm diameter G.I. Pipe with brass strainer of approved quality.	Rmt	857	
R2-CS-PS-122	Providing and fixing to filter and lowering to proper levels 40 mm G.I. pipe for tube well including cleaning and priming the tube well.	Rmt	301	
R2-CS-PS-123	Providing and placing in position hand pump of approved quality for 40 mm diameter G.I. pipe complete with all accessories.	each	1067	
R2-CS-PS-124	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :			
R2-CS-PS-124-a	15 mm nominal bore	each	HE-7-5	
R2-CS-PS-124-b	20 mm nominal bore	each		
R2-CS-PS-124-c	25 mm nominal bore	each		
R2-CS-PS-124-d	32 mm nominal bore	each		
R2-CS-PS-124-e	40 mm nominal bore	each		
R2-CS-PS-124-f	50 mm nominal bore	each		
R2-CS-PS-124-g	65 mm nominal bore	each		
R2-CS-PS-124-h	80 mm nominal bore	each		
R2-CS-PS-125	Providing and fixing G.I. Union in existing G.I. pipe line, cutting and threading the pipe and making long screws, including excavation, refilling the earth or cutting of wall and making good the same complete wherever required :			
R2-CS-PS-125-a	15 mm nominal bore	each	494	
R2-CS-PS-125-b	20 mm nominal bore	each	508	
R2-CS-PS-125-c	25 mm nominal bore	each	527	
R2-CS-PS-125-d	32 mm nominal bore	each	564	
R2-CS-PS-125-e	40 mm nominal bore	each	588	
R2-CS-PS-125-f	50 mm nominal bore	each	752	
R2-CS-PS-125-g	65 mm nominal bore	each	1001	
R2-CS-PS-125-h	80 mm nominal bore	each	1148	
R2-CS-PS-126	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, ISI : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	per litre	4	
	C.P. BRASS FITTINGS			
R2-CS-PS-127	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :			
R2-CS-PS-127-a	15 mm nominal bore	each	618	
R2-CS-PS-128	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.			
R2-CS-PS-128-a	15 mm nominal bore	each	733	
R2-CS-PS-129	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.			
R2-CS-PS-129-a	15 mm nominal bore	each	742	



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-PS-130	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.			
R2-CS-PS-130-a	15 mm nominal bore	each	950	
R2-CS-PS-131	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 a) 15 mm nominal bore			
R2-CS-PS-131-a	15mm nominal bore	each	769	
	PTMT FITTINGS Polytetramethylene Terephthalate (THERMOPLASTIC)			
R2-CS-PS-132	Providing and fixing PTMT bib cock of approved quality and colour.			
R2-CS-PS-132-a	15mm nominal bore, 86 mm long, weighing not less than 88 gms	each	354	**
R2-CS-PS-132-b	15 mm nominal bore, 122mm long, weighing not less than 99 gms	each	213	**
R2-CS-PS-132-c	15 mm nominal bore, 165 mm long, weighing not less than 110 gms	each	346	**
R2-CS-PS-132-d	15mm nominal bore, 90 mm long, weighing not less than 93 gms	each	346	**
R2-CS-PS-133	Providing and fixing PTMT stop cock of approved quality and colour.			
R2-CS-PS-133-a	15 mm nominal bore, 86 mm long, weighing not less than 88 gms	each	267	**
R2-CS-PS-133-b	20 mm nominal bore, 89 mm long, weighing not less than 88 gms	each	479	**
R2-CS-PS-133-c	Concealed stop cock, 15 mm nominal bore, 108 mm long, weighing not less than 108 gms	each	386	**
R2-CS-PS-134	Providing and fixing PTMT pillar cock of approved quality and colour .			
R2-CS-PS-134-a	15 mm nominal bore, 107 mm long, weighing not less than 110 gms	each	269	**
R2-CS-PS-134-b	15 mm nominal bore, 125 mm long foam flow, weighing not less than 120 gms	each	495	**
R2-CS-PS-135	Providing and fixing PTMT, push cock of approved quality and colour.			
R2-CS-PS-135-a	15 mm nominal bore, 98 mm long, weighing not less than 75 gms	each	267	**
R2-CS-PS-135-b	15 mm nominal bore, 80 mm long, weighing not less than 46 gms	each	261	**
R2-CS-PS-136	Providing and fixing PTMT grating of approved quality and colour.			
R2-CS-PS-136-a	Circular type			
R2-CS-PS-136-a-1	100 mm nominal dia	each	54	**
R2-CS-PS-136-a-2	125 mm nominal dia with 25 mm waste hole	each	74	**
R2-CS-PS-136-c	150 mm nominal size square 100 mm diameter of the inner hinged round grating	each	196	**
	AIR VALVE & WATER METER (BULK TYPE)			
R2-CS-PS-137	Providing and fixing C.I. double acting air valve of approved quality with bolts, nuts, rubber insertions etc. complete (The tail pieces, tapers etc if required will be paid separately) :			
R2-CS-PS-137-a	50 mm dia	each	9,624.00	
R2-CS-PS-137-b	80 mm dia	each	12,949.00	
R2-CS-PS-137-c	100 mm dia	each	16,143.00	
R2-CS-PS-138	Providing and fixing enclosed type water meter (bulk type) conforming to IS : 2373 and tested by Municipal Board complete with bolts, nuts, rubber insertions etc. (The tail pieces if required will be paid separately) :			
R2-CS-PS-138-a	80 mm dia nominal bore	each	20876	
R2-CS-PS-138-b	100 mm dia nominal bore	each	26819	
R2-CS-PS-138-c	150 mm dia nominal bore	each	39154	
R2-CS-PS-138-d	200 mm dia nominal bore	each	50253	
R2-CS-PS-139	Providing and fixing C.I. dirt box strainer for bulk type water meter with nuts, bolts, rubber insertions etc. complete conforming to IS : 2373 :			
R2-CS-PS-139-a	80 mm dia	each	6830	
R2-CS-PS-139-b	100 mm dia	each	10627	
R2-CS-PS-139-c	150mm dia	each	14481	
R2-CS-PS-139-d	200 mm dia	each	19307	
R2-CS-PS-140	Providing and fixing PTMT Ball cock of approved quality, colour and make complete with Epoxy coated aluminium rod with L.P./ H.P.H.D. plastic ball.			



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R2-CS-PS-140-a	15 mm nominal bore, 105 mm long, weighing not less than 138 gms	each	293	
R2-CS-PS-140-b	20 mm nominal bore, 120 mm long, weighing not less than 198 gms	each	558	
R2-CS-PS-140-c	25 mm nominal bore, 152mm long, weighing not less than 440 gms	each	816	
R2-CS-PS-140-d	40 mm nominal bore, 206mm long, weighing not less than 690 gms	each	1548	
R2-CS-PS-140-e	50 mm nominal bore, 242mm long, weighing not less than 1240 gms	each	2319	
R2-CS-PS-141	Providing and fixing PTMT angle stop cock 15 mm nominal bore, weighing not less than 85 gms	each	483	
R2-CS-PS-142	Providing and fixing PTMT swivelling shower, 15 mm nominal bore, weighing not less than 40 gms	each	231	
R2-CS-PS-143	Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms.	each	390	
R2-CS-PS-144	Providing and laying S&S C.I. Standard specials such as tees, bends, collars tapers and caps etc, suitable for flanged jointing as per IS : 1538 :			
R2-CS-PS-144-a	Up to 300 mm dia	quintal	8101	
R2-CS-PS-144-b	Above 300 mm dia	quintal	9896	
R2-CS-PS-145	Providing and laying S&S C.I. Standard specials suitable for mechanical jointing as per IS : 13382 :			
R2-CS-PS-145-a	Up to 300 mm dia	quintal	9364	
R2-CS-PS-145-b	Above 300 mm dia	quintal	10162	
R2-CS-PS-146	Providing and laying D.I. specials of class K-12 suitable for push-on jointing as per IS : 9523 :			
R2-CS-PS-146-a	Up to 600 mm dia	quintal	13155	
R2-CS-PS-146-b	Above 600 mm dia	quintal	16613	
R2-CS-PS-147	Providing and laying D.I. Specials of Class K - 12 suitable for mechanical jointing as per IS : 9523 :			
R2-CS-PS-147-a	Up to 600 mm dia	quintal	11293	
R2-CS-PS-147-b	Above 600 mm dia	quintal	18741	
R2-CS-PS-148	Providing push-on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and the cost of rubber gasket :			
R2-CS-PS-148-a	100 mm dia pipes	joint	HE-1-8	
R2-CS-PS-148-b	200 mm dia pipes	joint		
R2-CS-PS-148-c	250 mm dia pipes	joint		
R2-CS-PS-148-d	300 mm dia pipes	joint		
R2-CS-PS-149	Providing and laying Double Flanged (screwed / welded) Centrifugally (Spun) Cast Iron, Class B (IS : 1536) :			
R2-CS-PS-149-a	100 mm dia C.I. Double Flanged Pipe	Rmt	2257	
R2-CS-PS-149-b	150 mm dia C.I. Double Flanged Pipe	Rmt	2342	
R2-CS-PS-149-c	200 mm dia C.I. Double Flanged Pipe	Rmt	2471	
R2-CS-PS-149-d	250 mm dia C.I. Double Flanged Pipe	Rmt	2551	
R2-CS-PS-149-e	300 mm dia C.I. Double Flanged Pipe	Rmt	2703	
R2-CS-PS-150	Providing and laying S&S Ductile Iron Pipes conforming to IS : 8329 :			
R2-CS-PS-150-a	100 mm dia Ductile Iron Class K-7 pipes	Rmt	HE-1-4.1	
R2-CS-PS-150-b	150 mm dia Ductile Iron Class K-7 pipes	Rmt		
R2-CS-PS-150-c	200 mm dia Ductile Iron Class K-7 pipes	Rmt		
R2-CS-PS-150-d	250 mm dia Ductile Iron Class K-7 pipes	Rmt		
R2-CS-PS-150-e	300 mm dia Ductile Iron Class K-7 pipes	Rmt		
R2-CS-PS-150-o	100 mm dia Ductile Iron Class K-9 pipes	Rmt		
R2-CS-PS-150-p	150 mm dia Ductile Iron Class K-9 pipes	Rmt		



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-PS-150-q	200 mm dia Ductile Iron Class K-9 pipes	Rmt		
R2-CS-PS-150-r	250 mm dia Ductile Iron Class K-9 pipes	Rmt		
R2-CS-PS-150-s	300 mm dia Ductile Iron Class K-9 pipes	Rmt		
R2-CS-PS-151	Providing and laying Double Flanged (Screwed / Welded) Centrifugally			
	(Spun) Ductile Iron Pipes of Class K - 9 conforming to IS : 8329 :			
R2-CS-PS-151-a	100 mm dia Ductile Iron Double Flanged	Rmt	HE-1-6	
R2-CS-PS-151-b	150 mm dia Ductile Iron Double Flanged	Rmt		
R2-CS-PS-151-c	200 mm dia Ductile Iron Double Flanged	Rmt		
R2-CS-PS-151-d	250 mm dia Ductile Iron Double Flanged	Rmt		
R2-CS-PS-151-e	300 mm dia Ductile Iron Double Flanged	Rmt		
R2-CS-PS-152	Providing and fixing unplasticised P.V.C. connection pipe with PTMT			
	Nuts, collar and bush of approved quality and colour.			
R2-CS-PS-152-a	15 mm nominal bore with 30cm length	each	123	
R2-CS-PS-152-b	15 mm nominal bore with 45 cm length	each	148	
R2-CS-PS-153	Providing and fixing PTMT extension nipple for water tank pipe, fittings			
	of approved quality and colour.			
R2-CS-PS-153-a	15 mm nominal bore, weighing not less than 32 gms	each	41	
R2-CS-PS-153-b	20mm nominal bore, weighing not less than 40 gms	each	49	
R2-CS-PS-153-c	25mm nominal bore, weighing not less than 62 gms	each	54	
R2-CS-PS-162	Providing & fixing chrome plated brass battery based infrared sensor operated pillar cock, having foam flow technology.			
R2-CS-PS-162-a	15 mm nominal bore	each	10,653	***
R2-CS-PS-155	Cutting holes up to 15x15 cm in R.C.C. floors and roofs for passing drain pipe etc. and repairing the hole after insertion of drain pipe etc. with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including finishing complete so as to make it leak proof.	each	266	
R2-CS-PS-156	Making chases up to 7.5x7.5 cm in walls including making good and finishing with matching surface after housing G.I. pipe etc.	Rmt	121	
R2-CS-PS-157	Making hole up to 20x20 cm and embedding pipes up to 150 mm diameter in masonry and filling with cement concrete 1:3:6 (1 cement : 3 coarse sand 6 graded stone aggregate 20 mm nominal size) including disposal of malba.	Rmt	140	
R2-CS-PS-158	Disinfecting C.I. water mains by flushing with water containing bleaching powder @ 0.5 gms per litre of water and cleaning the same with fresh water, operation to be repeated three times including getting the sample of water from the disinfected main tested in the municipal laboratory.			
R2-CS-PS-158-a	80 mm diameter C.I. pipe	100 metre	1,065	
R2-CS-PS-158-b	100 mm diameter C.I. pipe	100 metre	1,400	
R2-CS-PS-158-c	125 mm diameter C.I. pipe	100 metre	1,711	
R2-CS-PS-158-d	150 mm diameter C.I. pipe	100 metre	2,097	
R2-CS-PS-158-e	200 mm diameter C.I. pipe	100 metre	2,799	
R2-CS-PS-158-f	250 mm diameter C.I. pipe	100 metre	3,522	
R2-CS-PS-158-g	300 mm diameter C.I. pipe	100 metre	3,922	
R2-CS-PS-159	Extra for every operation of disinfecting the C.I. main by flushing with water containing bleaching powder @ 0.5 gms per litre of water and cleaning the same with fresh water, including getting the samples of water tested in the municipal laboratory :			
R2-CS-PS-159-a	80 mm diameter C.I. pipe	100 metre	389	
R2-CS-PS-159-b	100 mm diameter C.I. pipe	100 metre	478	
R2-CS-PS-159-c	125 mm diameter C.I. pipe	100 metre	584	
R2-CS-PS-159-d	150 mm diameter C.I. pipe	100 metre	680	
R2-CS-PS-159-e	200 mm diameter C.I. pipe	100 metre	1,037	
R2-CS-PS-159-f	250 mm diameter C.I. pipe	100 metre	1,193	
R2-CS-PS-159-g	300 mm diameter C.I. pipe	100 metre	1,338	



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-PS-160	Dismantling old C.I. pipes including excavation and refilling trenches after taking out the pipes, breaking lead caulked joints, melting of lead and making into blocks, including stacking of pipes at site lead up to 50 metre :			
R2-CS-PS-160-a	80 mm diameter C.I. pipe	Rmt	236	
R2-CS-PS-160-b	100 mm diameter C.I. pipe	Rmt	245	
R2-CS-PS-160-c	125 mm diameter C.I. pipe	Rmt	254	
R2-CS-PS-160-d	150 mm diameter C.I. pipe	Rmt	263	
R2-CS-PS-160-e	200 mm diameter C.I. pipe	Rmt	292	
R2-CS-PS-160-f	250 mm diameter C.I. pipe	Rmt	321	
R2-CS-PS-160-g	300 mm diameter C.I. pipe	Rmt	347	
R2-CS-PS-161	Labour for cutting C.I. pipe with steel saw.			
R2-CS-PS-161-a	80 mm diameter C.I. pipe	Each cut	85	
R2-CS-PS-161-b	100 mm diameter C.I. pipe	Each cut	114	
R2-CS-PS-161-c	125 mm diameter C.I. pipe	Each cut	158	
R2-CS-PS-161-d	150 mm diameter C.I. pipe	Each cut	217	
R2-CS-PS-161-e	200 mm diameter C.I. pipe	Each cut	291	
R2-CS-PS-161-f	250 mm diameter C.I. pipe	Each cut	360	
R2-CS-PS-161-g	300 mm diameter C.I. pipe	Each cut	431	
	DRAINAGE			
R2-CS-PS-162	Supplying and fixing C.I. cover 300x300 mm without frame for gully trap (standard pattern) the weight of cover to be not less than 4.5 kg	Each	714	
R2-CS-PS-163	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :			
R2-CS-PS-163-a	100 mm diameter	Rmt	323	
R2-CS-PS-163-b	150 mm diameter	Rmt	460	
R2-CS-PS-163-c	200 mm diameter	Rmt	658	
R2-CS-PS-163-d	250 mm diameter	Rmt	836	
R2-CS-PS-163-e	300 mm diameter	Rmt	1,000	
R2-CS-PS-164	Providing and laying cement concrete 1:4:8 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design :			
R2-CS-PS-164-a	100 mm diameter S.W. pipe	Rmt	785	
R2-CS-PS-164-b	150 mm diameter S.W. pipe	Rmt	960	
R2-CS-PS-164-c	200 mm diameter S.W. pipe	Rmt	1,119	
R2-CS-PS-164-d	250 mm diameter S.W. pipe	Rmt	1,294	
R2-CS-PS-164-e	300 mm diameter S.W. pipe	Rmt	1,457	
R2-CS-PS-165	Providing and laying cement concrete 1:4:8 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) up to haunches of S.W. pipes including bed concrete as per standard design :			
R2-CS-PS-165-a	100 mm diameter S.W. pipe	Rmt	326	
R2-CS-PS-165-b	150 mm diameter S.W. pipe	Rmt	529	



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-PS-165-c	200 mm diameter S.W. pipe	Rmt	621	
R2-CS-PS-165-d	250 mm diameter S.W. pipe	Rmt	723	
R2-CS-PS-165-e	300 mm diameter S.W. pipe	Rmt	723	
R2-CS-PS-166	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design :			
R2-CS-PS-166-a	100x100 mm size P type			
R2-CS-PS-166-a-1	With common burnt clay F.P.S. (non modular) bricks of class designation 3.5	each	2,564	
R2-CS-PS-166-a-2	With Sewer bricks conforming to IS : 4885	each	3,292	
R2-CS-PS-166-b	150 x 100 mm size P type			
R2-CS-PS-166-b-1	With common burnt clay F.P.S. (non modular) bricks of class designation 3.5	each	2,913	
R2-CS-PS-166-b-2	With sewer bricks conforming to IS : 4885	each	3,307	
R2-CS-PS-166-c	180x150 mm size P type			
R2-CS-PS-166-c-1	With common burnt clay F.P.S. (non modular) bricks of class designation 3.5	each	3,026	
R2-CS-PS-166-c-2	With Sewer bricks conforming to IS : 4885	each	3,749	
R2-CS-PS-167	Dismantling of old S.W. pipes including breaking of joints and bed concrete stacking of useful materials near the site within 50 m lead and disposal of unserviceable materials into municipal dumps :			
R2-CS-PS-167-a	100 mm diameter	Rmt	51	
R2-CS-PS-167-b	150 mm diameter	Rmt	56	
R2-CS-PS-167-c	200 mm diameter	Rmt	59	
R2-CS-PS-167-d	250 mm diameter	Rmt	63	
R2-CS-PS-167-e	300 mm diameter	Rmt	67	
R2-CS-PS-167-f	350 mm diameter	Rmt	77	
R2-CS-PS-167-g	400 mm diameter	Rmt	84	
R2-CS-PS-167-h	450 mm diameter	Rmt	87	
R2-CS-PS-168	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :			
R2-CS-PS-168-a	100 mm dia. R.C.C. pipe	Rmt	389	
R2-CS-PS-168-b	150 mm dia. R.C.C. pipe	Rmt	473	
R2-CS-PS-168-c	250 mm dia. R.C.C. pipe	Rmt	813	
R2-CS-PS-168-d	300 mm dia. R.C.C. pipe	Rmt	866	
R2-CS-PS-168-e	450 mm dia. R.C.C. pipe	Rmt	1,197	
R2-CS-PS-168-f	500 mm dia. R.C.C. pipe	Rmt	1,536	
R2-CS-PS-168-g	600 mm dia. R.C.C. pipe	Rmt	1,808	
R2-CS-PS-168-h	700 mm dia. R.C.C. pipe	Rmt	2,240	
R2-CS-PS-168-i	800 mm dia. R.C.C. pipe	Rmt	2,643	
R2-CS-PS-168-j	900 mm dia. R.C.C. pipe	Rmt	3,140	
R2-CS-PS-168-k	1000 mm dia. R.C.C. pipe	Rmt	3,667	



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-PS-168-l	1100 mm dia. R.C.C. pipe	Rmt	4,339	
R2-CS-PS-168-j	1200 mm dia. R.C.C. pipe	Rmt	5,290	
R2-CS-PS-169	Constructing brick masonry inspection chamber in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design :			
R2-CS-PS-169-a	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :			
R2-CS-PS-169-a-1	With common burnt clay F.P.S. (non modular) bricks of class designation 3.5	each	8,905	
R2-CS-PS-169-a-2	With Sewer bricks conforming to IS : 4885	each	9,782	
R2-CS-PS-169-b	Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (medium duty) 500 mm internal diameter, total weight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg) :			
R2-CS-PS-169-b-1	With common burnt clay F.P.S. (non modular) bricks of class designation 3.5	each	14,866	
R2-CS-PS-169-b-2	With Sewer bricks conforming to IS : 4885	each	19,382	
R2-CS-PS-169-c	Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (heavy duty) 560 mm internal diameter, total weight of cover and frame to be not less than 208 kg (weight of cover 108 kg and weight of frame 100 kg) :			
R2-CS-PS-169-c-1	With common burnt clay F.P.S. (non modular) bricks of class designation 3.5	each	22,257	
R2-CS-PS-169-c-2	With Sewer bricks conforming to IS : 4885	each	26,142	
R2-CS-PS-169-d	Size 90x80 cm			
R2-CS-PS-169-d-1	With common burnt clay F.P.S. (non modular) bricks of class designation 3.5	Rmt	6,858	
R2-CS-PS-169-d-2	With Sewer bricks conforming to IS : 4885	Rmt	12,403	
R2-CS-PS-169-e	Size 120x90 cm			
R2-CS-PS-169-e-1	With common burnt clay F.P.S. (non modular) bricks of class designation 3.5	Rmt	8,209	
R2-CS-PS-169-e-2	With Sewer bricks conforming to IS : 4885	Rmt	14,817	
R2-CS-PS-170	Constructing brick masonry circular type manhole 0.91 m internal dia at bottom and 0.56m dia at top in cement mortar 1:4 (1 cement : 4 coarse sand), in side cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size), and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, all complete as per standard design :			



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-PS-170-a	0.91 m deep with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg., fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering shuttering all complete. (Excavation, foot rests and 12mm thick cement plaster at the external surface shall be paid for separately) :			
R2-CS-PS-170-a-1	With common burnt clay F.P.S. (non modular) bricks of class designation 3.5	each	9,087	
R2-CS-PS-170-a-2	With Sewer bricks conforming to IS : 4885	each	12,874	
R2-CS-PS-171	Extra depth for circular type manhole 0.91m internal dia (at bottom) beyond 0.91 m to 1.67 m			
R2-CS-PS-171-a	With common burnt clay F.P.S. (non modular) bricks of class designation 3.5	Rmt	5,880	
R2-CS-PS-171-b	With Sewer bricks conforming IS : 4885	Rmt	10,522	
R2-CS-PS-172	Constructing brick masonry circular manhole 1.22 m internal dia at bottom and 0.56 m dia at top in cement mortar 1:4 (1 cement :4 coarse sand) inside cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement foundation concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, all complete as per standard design :			
R2-CS-PS-172-a	1.68 m deep with SFRC Cover and frame (heavy duty HD-20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg. fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete. (Excavation, foot rests and 12 mm thick cement plaster at the external surface shall be paid for separately) :			
R2-CS-PS-172-a-1	With common burnt clay F.P.S. (non modular) bricks of class designation 3.5	each	17,722	
R2-CS-PS-172-a-2	With Sewer bricks conforming IS : 4885	each	23,911	
R2-CS-PS-172-b	Extra depth for circular type manhole 1.22 m internal dia (at bottom) beyond 1.68 m to 2.29 m :			
R2-CS-PS-172-b-1	With common burnt clay F.P.S. (non modular) bricks of class designation 3.5	Rmt	7,607	
R2-CS-PS-172-b-2	With Sewer bricks conforming IS : 4885	Rmt	13,667	
R2-CS-PS-173	Constructing brick masonry circular manhole 1.52 m internal dia at bottom and 0.56 m dia at top in cement mortar 1:4 (1 cement : 4 coarse sand) inside cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, all complete as per standard design :			



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-PS-173-a	2.30 m deep with SFRC Cover and frame (heavy duty HD-20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not			
R2-CS-PS-173-a-1	With common burnt clay F.P.S. (non modular) bricks of class designation 3.5	each	38,147	
R2-CS-PS-173-a-2	With Sewer bricks conforming IS : 4885	each	63,078	
R2-CS-PS-174	Extra depth for circular type manhole 1.52 m internal dia (at bottom) beyond 2.30 m :			
R2-CS-PS-174-a	With common burnt clay F.P.S. (non modular) bricks of class designation 3.5	Rmt	18,260	
R2-CS-PS-174-b	With Sewer bricks conforming IS : 4885	Rmt	33,929	
R2-CS-PS-175	Providing M.S. foot rests including fixing in manholes with 20x20x10 cm cement concrete blocks 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) as per standard design :			
R2-CS-PS-175-a	With 20x20 mm square bar	each	354	
R2-CS-PS-175-b	With 20 mm diameter round bar	each	316	
R2-CS-PS-176	Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS : 10910, on 12 mm dia steel bar conforming to IS : 1786, having minimum cross section as 23 mmx25 mm and over all minimum length 263 mm and width as 165 mm with minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per specifications and having manufacture's permanent identification mark to be visible even after fixing, including fixing in manholes with 30x20x15 cm cement concrete block 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) complete as per design.	each	547	
R2-CS-PS-177	Replacement of M.S. foot rests in manholes including dismantling concrete blocks and fixing with 20x20x10 cm cement concrete blocks 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) :			
R2-CS-PS-177-a	With 20x20 mm square bar	each	429	
R2-CS-PS-177-b	With 20 mm diameter round bar	each	391	
R2-CS-PS-178	Supplying and fixing C.I. cover without frame for manholes :			
R2-CS-PS-178-I	455x610 mm rectangular C.I. cover (light duty) the weight of the cover to be not less than 23 kg	each	1,690	
R2-CS-PS-178-II	500 mm diameter C.I. cover (medium duty) the weight of the cover to be not less than 58 kg	each	2,164	
R2-CS-PS-178-III	560 mm diameter C.I. cover (heavy duty) the weight of the cover to be not less than 108 kg	each	6,079	
R2-CS-PS-179	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality			



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-PS-179-a	L D- 2.5			
R2-CS-PS-179-a-1	Rectangular shape 600x450 mm internal dimensions	each	2,130	
R2-CS-PS-179-a-2	Square shape 450 mm internal dimensions	each	1,092	
R2-CS-PS-179-a-3	Circular shape 450 mm internal diameter	each	1,210	
R2-CS-PS-179-b	M D - 10			
R2-CS-PS-179-b-1	Square shape 450 mm internal dimension	each	1,902	
R2-CS-PS-179-b-2	Circular shape 500 mm internal diameter	each	1,535	
R2-CS-PS-179-c	H D - 20			
R2-CS-PS-179-c-1	Circular shape 560 mm internal diameter	each	1,341	
R2-CS-PS-179-d	EHD - 35			
R2-CS-PS-179-d-1	Circular shape 560 mm internal dia	each	2,451	
R2-CS-PS-181	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement and making necessary channels for the drain etc. complete :			
R2-CS-PS-181-a	For pipes 100 to 250 mm diameter	each	475	
R2-CS-PS-181-b	For pipes 250 to 300 mm diameter	each	549	
R2-CS-PS-181-c	For pipes 350 to 450 mm diameter	each	784	
R2-CS-PS-182	Providing sand cast iron drop connection externally for 60 cm drop from branch sewer line to main sewer manhole including inspection encased all-round with cement concrete 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 12 mm nominal size) with all and cleaning eye with chain and lid, sand cast iron drop pipe and bend centering and shuttering required, cutting holes in walls and making good with brick work in cement mortar 1:4 (1 cement : 4 coarse sand) and fittings, stiff cement mortar 1:1 (1 cement : 1 fine sand) joints between sand cast iron tee and S.W. pipe, making required channels complete as per standard design and specifications :			



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-PS-182-a	100 mm dia sand cast iron drop connection	each	8,260	
R2-CS-PS-182-b	150 mm dia sand cast iron drop connection	each	11,554	
R2-CS-PS-182	Extra for depths beyond 60 cm of sand cast iron drop connection complete :			
R2-CS-PS-183-a	For 100 mm dia sand cast iron drop connection	Rmt	2,779	
R2-CS-PS-183-b	For 150 mm dia sand cast iron drop connection	Rmt	4,765	
R2-CS-PS-184	Dismantling of manhole including R.C.C. top slab, C.I. cover with frame, including stacking of useful materials near the site and disposal			
R2-CS-PS-184-a	Rectangular manhole 90x80 cm and 45 cm deep	each	1,429	
R2-CS-PS-184-b	Rectangular manhole 120x90 cm and 90 cm deep	each	2,518	
R2-CS-PS-184-c	Rectangular arch type manhole 140x90 cm and 2.45 m deep	each	4,805	
R2-CS-PS-184-d	Circular manhole 122 cm diameter and 1.68 m deep	each	3,673	
R2-CS-PS-185	Extra for depth of manholes dismantled :			
R2-CS-PS-185-a	Rectangular manhole 90x80 cm and beyond 45 cm depth	Rmt	1,161	
R2-CS-PS-185-b	Rectangular manhole 120x90 cm and beyond 90 cm depth	Rmt	1,383	
R2-CS-PS-185-c	Rectangular arch type manhole 140x90 cm and beyond 2.45 m depth (up to 4.25 m depth)	Rmt	1,112	
R2-CS-PS-185-d	Circular manhole 122 cm diameter and beyond 1.68 m depth (up to 2.29 m depth)	Rmt	1,213	
R2-CS-PS-186	Raising manhole cover and frame slab to required upto 150mm including dismantling existing slab and making good the damage as required Raising depth of manhole to be paid separately)			
R2-CS-PS-186-a-1	Rectangular manhole 90x80 cm with rectangular cover 600x450 mm of grade LD - 2.5	each	2,312	
R2-CS-PS-186-a-2	Rectangular manhole 120x90 cm with circular cover 500 mm dia of grade MD - 10	each	3,632	
R2-CS-PS-186-a-3	Rectangular manhole 120x90 cm with circular cover 560 mm dia of grade HD - 20	each	3,372	
R2-CS-PS-186-a-4	Circular manhole 140 cm dia with circular cover 600 mm dia of grade EHD - 35	each	227	
R2-CS-PS-186-b	Raising manhole cover and frame slab to required upto 300mm including dismantling existing slab and making good the damage as required Raising depth of manhole to be paid separately)			
R2-CS-PS-186-b-1	Rectangular manhole 90x80 cm with rectangular cover 600x450 mm of grade LD - 2.5	each	4,333	
R2-CS-PS-186-b-2	Rectangular manhole 120x90 cm with circular cover 500 mm dia of grade MD - 10	each	5,617	
R2-CS-PS-186-b-3	Rectangular manhole 120x90 cm with circular cover 560 mm dia of grade HD - 20	each	6,303	
R2-CS-PS-186-b-4	Circular manhole 140 cm dia with circular cover 600 mm dia of grade EHD - 35	each	384	



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
	Raising manhole cover and frame slab to required upto 600mm including dismantling existing slab and making good the damage as required Raising depth of manhole to be paid separately)			
R2-CS-PS-186-c-1	Rectangular manhole 90x80 cm with rectangular cover 600x450 mm of grade LD - 2.5	each	8,270	
R2-CS-PS-186-c-2	Rectangular manhole 120x90 cm with circular cover 500 mm dia of grade MD - 10	each	10,692	
R2-CS-PS-186-c-3	Rectangular manhole 120x90 cm with circular cover 560 mm dia of grade HD - 20	each	12,086	
R2-CS-PS-186-c-4	Circular manhole 140 cm dia with circular cover 600 mm dia of grade EHD - 35	each	720	
	Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design.			
R2-CS-PS-192-a	With common burnt clay F.P.S. (non modular) bricks of class designation 3.5	each	38,098	
R2-CS-PS-193	Constructing soak pit 1.20x1.20x1.20 m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20 m long complete as per standard design.	each	4,240	
	Providing and fixing S.W. intercepting trap in manholes with stiff mixture of cement mortar 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :			
R2-CS-PS-194-a	100 mm dia	each	461	
R2-CS-PS-194-b	150 mm dia	each	585	
R2-CS-PS-190	Constructing brick masonry chamber for underground C.I. inspection chamber and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg), R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 (1 cement : 5 finesand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand), finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design			
R2-CS-PS-190-a	Inside dimensions 455x610 mm and 45 cm deep for single pipe line :			
R2-CS-PS-190-a-1	With common burnt clay F.P.S. (non modular) bricks of class designation 3.5	each	6,487	
R2-CS-PS-190-b	Inside dimensions 500x700 mm and 45 cm deep for pipe line with one or two inlets :			
R2-CS-PS-190-b-1	With common burnt clay F.P.S. (non modular) bricks of class designation 3.5	each	7,361	
R2-CS-PS-190-c	Inside dimensions 600x 850 mm and 45 cm deep for pipe line with three or more inlets :			
R2-CS-PS-190-c-1	With common burnt clay F.P.S. (non modular) bricks of class designation 3.5	each	7,218	
	Extra for depth beyond 45 cm of brick masonry chamber :			



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-PS-191-a	For 455x610 mm size			
R2-CS-PS-191-a-1	With common burnt clay F.P.S. (non modular) bricks of class designation 3.5	Rmt	4,786	
R2-CS-PS-191-b	For 500x700 mm size			
R2-CS-PS-191-b-1	With common burnt clay F.P.S. (non modular) bricks of class designation 3.5	Rmt	5,216	
R2-CS-PS-191-c	For 600x850 mm size			
R2-CS-PS-191-c-1	With common burnt clay F.P.S. (non modular) bricks of class designation 3.5	Rmt	6,068	
R2-CS-PS-191	Providing and fixing in position uPVC/SWR (Soil/Waste/Rain) pipe of type-B 75 mm dia. in any position including all fittings and accessories, making joints / connections water tight with solvent cement, scaffolding if necessary and making good the damages if any (excluding excavation and refilling the trenches) etc. complete as specified and directed.(All fittings and accessories like clamps,etc. should be of same brand. No separate payment shall be made for fittings and accessories).	Rmt	314	
R2-CS-PS-192	Providing and fixing in position uPVC/SWR (Soil/Waste/Rain) pipe of type-B 110 mm dia. in any position including all fittings and accessories, making joints / connections water tight with solvent cement, scaffolding if necessary and making good the damages if any (excluding excavation and refilling the trenches) etc. complete as specified and directed.(All fittings and accessories like clamps,etc. should be of same brand. No separate payment shall be made for fittings and accessories).	Rmt	478	
R2-CS-PS-202	Providing and fixing in position uPVC/SWR (Soil/Waste/Rain) pipe of type-B 160 mm dia. in any position including all fittings and accessories, making joints / connections water tight with solvent cement, scaffolding if necessary and making good the damages if any (excluding excavation and refilling the trenches) etc. complete as specified and directed.(All fittings and accessories like clamps,etc. should be of same brand. No separate payment shall be made for fittings and accessories).	Rmt	1134	
R2-CS-PS-194	Constructing brick masonry inspection chamber 90cm x 45cm x30cm in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making haunches, channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design.	each	3629	
R2-CS-PS-195	Extra on item CS-PS-194 for additional depth above 30 cm of 230 mm brick walls	Rmt	3857	
R2-CS-PS-196	Providing & fixing M. S. angled ISA 5050 of 6 mm. welded frame for rectangular inspection chamber of 90 cm x 45 cm. with, 1 : 2 : 4 R. C. C. cover of approved design, 50mm. thick fixed complete including cement sand filleting 1 : 1 in C. S. complete as directed (Including fixing in cement mortar with cement and sand filleting around C. I. Frame and removal of the existing frame and cover if any. The frame and cover must be weighed before fixing in position.) (The dimension specified are clear inside dimensions of the frames. In case of M. S. angled frame, the proper hold fasts &fastening should be embedded in c.c.)	Each	1855	
R2-CS-PS-197	P/F R.C.C. cover on inspection chamber of size 90 cm x 45 cm. and 50 mm. thick, etc., directed.	Each	1856	
R2-CS-PS-198	Open half-round S.W. pipe above 75 mm, upto 150 mm channel filled in cement and sand mortar 1: 2 above.	Rmt	225	



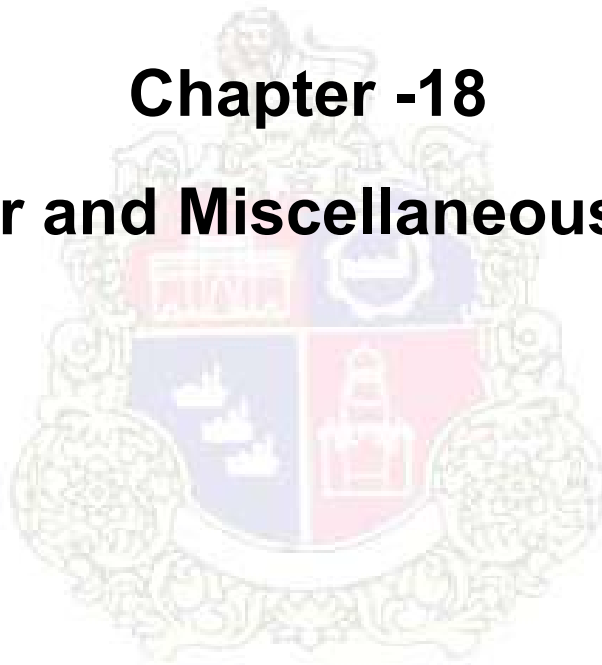
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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)	STAR RATING
R2-CS-PS-199	Providing and fixing open half round Hume pipe channel with collar etc. in cm. (1:2) laid complete 150 mm dia.	Rmt	250	
R2-CS-PS-200	Providing and fixing open half round Hume pipe channel without collar etc. in cm. (1:2) laid complete 150 mm dia. (Note deduct Rs. 14.00 per R.M. if collar is not required).	Rmt	171	
R2-CS-PS-201	Providing and fixing open half round Hume pipe channel with collar etc. in cm. (1:2) laid complete 250 mm dia. (Note deduct Rs. 17.00 per R.M. if collar is not required).	Rmt	250	
R2-CS-PS-203	Providing and fixing C.P. Brass two way bib cock with flange of approved quality and make.	Each	1246	
R2-CS-PS-204	Providing and fixing Health Faucet with one metre long easy flex tube in chrome finish and wall flange	Each	1513.00	
R2-CS-PS-205	Providing and fixing flush cock with wall flange 25mm with lever knob.	Each	2112.00	
R2-CS-PS-206	Providing and fixing Patel Pattern or any approved make air tight cast iron inspection chamber with air tight cover screwed down with gun metal screws bedded on cement concrete 1:4:8, 230 mm thick enclosed in 230 mm thick masonry work in cement mortar 1:4 with 12 mm thick plaster in c.m. 1:3 on both sides, complete with cast iron frame and cover both together weighing not less than 102 kg fixed in cement mortar etc. complete.	Each	60793	
R2-CS-PS-207	Extra and over for item no.CS-PS-206 for every additional inlet for air tight cast iron inspection chamber.	Each	1863	



Chapter -18

Repair and Miscellaneous work



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs.)
R2-CS-RM	REPAIR WORKS		
R2-CS-RM-1	Repairs to plaster of thickness 12mm to 20mm in patches of area 2.5 sq. meters and under including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete including disposal of rubbish to the dumping ground within 50metres lead :		
	With cement mortar 1:4 (1 cement : 4 fine sand).	Sqm	357
R2-CS-RM-2	Removing and refixing frame and shutters in existing opening including embedding frames in floors or walls cutting masonry for holdfasts, embedding hold fasts in cement concrete blocks of size 15 x 10 x 10 cm with cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size), painting two coats of approved wood preservative to sides of chowkhats and making good the damages to walls and floors as required complete including disposal of rubbish to the dumping ground within 50 meters lead :		
R2-CS-RM-2-a	Door frame along with shutters	each	1,091
R2-CS-RM-2-b	Window frame along with shutters	each	693
R2-CS-RM-2-c	Clerestory window chowkhats along with shutters	each	509
R2-CS-RM-3	Refixing frame in existing opening in brick / RCC wall with dash fasteners/ Chemical fasteners of appropriate size (3 nos on each vertical member of door frame and 2 nos. on each vertical member of window frame) including Cost of dash fasteners/ chemical fastener.	each	171
R2-CS-RM-4	Making the opening in brick masonry including dismantling in floor or walls by cutting masonry and making good the damages to walls and jambs complete, to match existing surface i/c disposal of mulba/ rubbish to the nearest municipal dumping ground for door/ window/ clerestory window.	Sqm	744
R2-CS-RM-5	Renewing glass panes, with putty and nails wherever necessary including racking out the old putty:		
R2-CS-RM-5-a	Float glass panes of thickness 4 mm	Sqm	825
R2-CS-RM-5-b	Float glass panes of thickness 5.5 mm	Sqm	1,103
R2-CS-RM-6	Renewing glass panes, with wooden fillets wherever necessary:		
R2-CS-RM-6-a	Float glass panes of thickness 4 mm	Sqm	1,098
R2-CS-RM-6-b	Float glass panes of thickness 5.5 mm	Sqm	1,376
R2-CS-RM-7	Renewing glass panes and refixing existing wooden fillets:		
R2-CS-RM-7-a	Float glass panes of thickness 4 mm	Sqm	904
R2-CS-RM-7-b	Float glass panes of thickness 5.5 mm	Sqm	1,182
R2-CS-RM-8	Supplying and fixing new wooden fillets wherever necessary:		
R2-	2nd class teak wood fillets	Rmt	43
R2-CS-RM-9	Renewal of old putty of glass panes (length)	Rmt	33
R2-CS-RM-10	Refixing old glass panes with putty and nails	Sqm	431
R2-CS-RM-11	Fixing old glass panes with wooden fillets (excluding cost of fillets)	Sqm	401



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs.)
	Note: - This item to be used for all types of glass panes transparent, opaque, frosted, plain, wire reinforced, carvings, coloured, etc		
R2-CS-RM-12	Providing and fixing 16 mm M.S. Fan clamps of standard shape and size in existing R.C.C. slab including cutting chase, anchoring clamp to reinforcement bar, including cleaning, refilling, making good the chase with matching concrete, plastering and painting the exposed portion of the clamps complete.	each	634
R2-CS-RM-13	Renewing wooden battens in roofs, including making good the holes in wall and painting with oil type wood preservative of approved brand and manufacture complete including removal of rubbish to the dumping ground within 50 metres lead :Sal wood battens.	Cum	33,251
R2-CS-RM-14	Renewing wooden beams in roofs including making good the holes in walls and painting with oil type wood preservative of approved brand and manufacture complete including removal of rubbish to the dumping ground within 50 metres lead :		
R2-CS-RM-14-a	Not exceeding 4.00 metres in length.		
R2-	Sal wood beams	Cum	36,503
R2-CS-RM-14-b	Above 4.00 metres and upto 5.00 metres length.		
R2-	Sal wood beams	Cum	38,011
R2-CS-RM-15	Raking out joints in lime or cement mortar and preparing the surface for re-pointing or replastering including disposal of rubbish to the dumping ground within 50 metres lead.	Sqm	41
R2-CS-RM-16	Removing wind ties from roof including cutting out rusted bolts, nuts etc. and removing materials to any distance within compound and stacking.	kg	3
R2-CS-RM-17	Pumping out water caused by springs, tidal or river seepage, broken water mains or drains and the like.	kilo litre	186
R2-CS-RM-18	Mud mortar made with local clay good earth.	Cum	1,713
R2-CS-RM-19	Brick work with common burnt clay bricks of class designation 3.5 in mud mortar	Cum	4,578
R2-CS-RM-20	Providing and fixing 25 mm thick shutters for cup board etc. :		
R2-CS-RM-20-a	Panelled or panelled & glazed shutters :		
	1st class teak wood including nickel plated bright finished M.S. piano hinges with necessary screws.	Sqm	4,233
R2-CS-RM-20-b	Glazed shutters :		
	1st class teak wood including nickel plated bright finished M.S. piano hinges with necessary screws.	Sqm	4,274
R2-CS-RM-21	Providing and fixing M.S. round or square bars with M.S. flats at required spacing in wooden frames of windows and clerestory windows.	kg	80
R2-CS-RM-22	Providing and fixing bright finished brass single acting spring hinges with necessary brass screws etc. complete :		
R2-CS-RM-22-a	150 mm	each	386
R2-CS-RM-22-b	125 mm	each	332
R2-CS-RM-22-c	100 mm	each	274
R2-CS-RM-23	Providing and fixing bright finished brass double acting spring hinges with necessary brass screws etc. complete :		



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs.)
R2-CS-RM-23-a	150 mm	each	776
R2-CS-RM-23-b	125 mm	each	528
R2-CS-RM-23-c	100 mm	each	478
R2-CS-RM-24	Providing and fixing bright finished brass flush bolts with necessary brass screws etc. complete :		
R2-CS-RM-24-a	250 mm	each	279
R2-CS-RM-24-b	150 mm	each	208
R2-CS-RM-24-c	100 mm	each	149
R2-CS-RM-25	Providing and fixing 150 mm bright finished floor brass door stopper with rubber cushion, necessary brass screws etc. to suit shutter thickness complete	each	103
R2-CS-RM-26	Providing and fixing bright finished brass hard drawn hooks and eyes :		
R2-CS-RM-26-a	300 mm	each	91
R2-CS-RM-26-b	250 mm	each	89
R2-CS-RM-26-c	200 mm	each	83
R2-CS-RM-26-d	150 mm	each	65
R2-CS-RM-26-e	100 mm	each	58
R2-CS-RM-27	Providing and fixing bright finished brass fan light pivot with necessary brass screws etc. complete.	each	42
R2-CS-RM-28	Providing and fixing 300 mm long bright finished brass chain with hook for fan light including necessary brass screws etc. complete.	each	279
R2-CS-RM-29	Providing and fixing bright finished brass quadrant stay 300mm long with necessary brass screws etc. complete.	each	82
R2-CS-RM-30	Providing and fixing bright finished brass helical door spring (superior quality).	each	111
R2-CS-RM-31	Providing and fixing chromium plated brass butt hinges with necessary chromium plated brass screws etc. complete.		
R2-CS-RM-31-a	125x70x4 mm (ordinary type)	each	175
R2-CS-RM-31-b	100x70x4 mm (ordinary type)	each	145
R2-CS-RM-31-c	75x65x4 mm (heavy type)	each	190
R2-CS-RM-31-d	75x40x2.5 mm (ordinary type)	each	110
R2-CS-RM-31-e	50x40x2.5 mm (ordinary type)	each	15
R2-CS-RM-32	Providing and fixing 85x42mm chromium plated brass pull bolt lock with necessary chromium plated brass screws, nuts, bolts and washers etc. complete.	each	311
R2-CS-RM-33	White washing with lime to give an even shade :		
R2-CS-RM-33-a	Old work (two or more coats)	each	12
R2-CS-RM-33-b	Old work (one or more coats)	each	8
R2-CS-RM-34	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	Sqm	11
R2-CS-RM-35	Distempering with dry distemper of approved brand and manufacture (one or more coats) and of required shade on old work to give an even shade.	Sqm	41
R2-CS-RM-36	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade :Old work (one or more coats) Chromium plated Brass pull bolt lock (locking bolt) of size 85 mmx42mm with screws, bolt	Sqm	43



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs.)
R2-CS-RM-37	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	Sqm	14
R2-CS-RM-38	Painting on G.S. sheet with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :Old work (one or more coats)	Sqm	65
R2-CS-RM-39	Painting (two or more coats) on rain water, soil, waste and vent pipes and fittings with black anticorrosive bitumastic paint of approved brand and manufacture over and including a priming coat of ready mixed zinc chromate yellow primer on new work :75 mm diameter pipes	Rmt	32
R2-CS-RM-40	Painting (one or more coats) on rain water, soil, waste and vent pipes and fittings with black anticorrosive bitumastic paint of approved brand and manufacture on old work :		
R2-CS-RM-40-a	75 mm diameter pipes	Rmt	15
R2-CS-RM-40-b	100 mm diameter pipes	Rmt	19
R2-CS-RM-40-c	150 mm diameter pipes	Rmt	29
R2-CS-RM-41	Painting (two or more coats) on rain water, soil, waste and vent pipes and fittings with aluminium paint of approved brand and manufacture over a priming coat of ready mixed zinc chromate yellow primer on new work :		
R2-CS-RM-41-a	75 mm diameter pipes	Rmt	34
R2-CS-RM-41-b	100 mm diameter pipes	Rmt	48
R2-CS-RM-41-c	150 mm diameter pipes	Rmt	71
R2-CS-RM-42	Painting (one or more coats) on rain water, soil, waste and vent pipes and fittings with synthetic enamel paint of approved brand and manufacture and required colour on old work :		
R2-CS-RM-42-a	75 mm diameter pipes	Rmt	16
R2-CS-RM-42-b	100 mm diameter pipes	Rmt	21
R2-CS-RM-42-c	150 mm diameter pipes	Rmt	30
R2-CS-RM-43	Painting with oil type wood preservative of approved brand and manufacture :Old work (one or more coats)	Sqm	24
R2-CS-RM-44	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade :One or more coats on old work.	Sqm	75
R2-CS-RM-45	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :One or more coats on old work.	Sqm	65
R2-CS-RM-46	Painting with aluminium paint of approved brand and manufacture to give an even shade :One or more coats on old work.	Sqm	61
R2-CS-RM-47	Painting with acid proof paint of approved brand and manufacture of required colour to give an even shade :One or more coats on old work.	Sqm	70
R2-CS-RM-48	Painting with black anti-corrosive bitumastic paint of approved brand and manufacture to give an even shade :One or more coats on old work.	Sqm	57
R2-CS-RM-49	French spirit polishing :One or more coats on old work.	Sqm	152
R2-CS-RM-50	Polishing on wood work with ready made wax polish of approved brand and manufacture :Old work	Sqm	63



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs.)
R2-CS-RM-51	Re-lettering with black Japan paint of approved brand and manufacture.	Per letter per cm height	3
R2-CS-RM-52	Painting (one or more coats) with black Japan paint of approved brand and manufacture to give an even shade.	Sqm	61
R2-CS-RM-53	Providing and fixing C.P. brass chain and rubber plug complete for sink or wash basin :		
R2-CS-RM-53-a	32 mm dia	each	93
R2-CS-RM-53-b	40 mm dia	each	113
R2-CS-RM-54	Distempering with 1st quality acrylic washable distemper (ready made) of approved manufacturer and of required shade and colour complete. as per manufacturer's specification. One or more coats on old work.	Sqm	37
R2-CS-RM-56	Finishing walls with water proofing cement paint of required shade :		
R2-CS-RM-56-a	Old work (one or more coats applied @ 2.20 kg/10 sqm) over priming coat of primer applied @ 0.80 ltrs/10 sqm complete including cost of Priming coat.	Sqm	79
R2-CS-RM-56-b	Old work (one or more coats @ 2.20 kg/10 sqm) complete.	Sqm	56
R2-CS-RM-57	Finishing walls with textured exterior paint of required shade :		
R2-CS-RM-57-a	Old work (Two or more coats on existing cement paint surface applied @ 3.28 ltr/10 sqm).	Sqm	121
R2-CS-RM-57-b	Old work (One or more coats) applied @ 1.82 ltr/10 sqm.	Sqm	76
R2-CS-RM-58	Finishing walls with Acrylic Smooth exterior paint of required shade :		
R2-CS-RM-58-a	Old work (Two or more coat applied @ 1.67 ltr/ 10 sqm) on existing cement paint surface).	Sqm	115
R2-CS-RM-58-b	Old work (One or more coat applied @ 0.90 ltr/10 sqm).	Sqm	72
R2-CS-RM-59	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade		
R2-CS-RM-59-a	Old work (Two or more coats applied @ 1.43 ltr/ 10 sqm) over existing cement paint surface.	Sqm	90
R2-CS-RM-59-b	Old work (one or more coats applied @ 0.83 ltr/10 sqm).	Sqm	60
R2-CS-RM-60	Varnishing with varnish of approved brand and manufacture:		
R2-CS-RM-60-a	One or more coats with copal varnish.	Sqm	67
R2-CS-RM-60-b	One or more coats with spar varnish.	Sqm	68
R2-CS-RM-61	Melamine polishing on wood work (one or more coat).	Sqm	105
R2-CS-RM-62	Varnishing with flatting varnish of approved brand and manufacture one or more coats on old work.	Sqm	64



Buildings Schedule/ Common Schedule
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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs.)
R2-CS-RM-63	Providing and fixing double scaffolding system (cup lock type) on the exterior side, up to seven story height made with 40mm dia. M.S. tube 1.5 m centre to centre horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube challies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it there after .The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineer-in-charge .The elevational area of the scaffolding shall be measured for payment purpose .The payment will be made once irrespective of duration of scaffolding.	Sqm	Refer Heritage work (R2-CS-CH-2)
	Note: - This item to be used for maintenance work judicially, necessary deduction for scaffolding in the existing item to be done.		
R2-CS-RM-64	Providing and fixing bright finished brass casement window fasteners or peg stays to windows/ ventilators with necessary welding and machine screws etc. complete.	kg	374
R2-CS-RM-65	Providing and fixing 14 mm bright finished brass spring catch to steel centre hung ventilators with necessary welding and machine screws etc. complete.	each	194
R2-CS-RM-66	Providing and fixing in vertical position telescopic M.S.prop under deflected beam/lintel/slab/chajjas by using teak wood battens of size 1000 x 80 x 80 for packing between prop plate and the beam/lintel/slab/chajjas bottom surface as per the directions of engineer-in-charge	each	2,208
R2-CS-RM-67	Providing and fixing in vertical position two telescopic M.S. prop spanning upto 1.5m under deflected beam/lintel/slab/chajjas by using teak wood battens of size 2000 x 150 x 40 for packing between prop plate and the beam/lintel/slab/chajjas bottom surface. Also tied with M.S.tube transom of 40mm dia as per the directions of engineer-in-charge.	each	5,021
R2-CS-RM-68	Preparing jogging track (conventional method) by providing & laying murum & brick bats in proportion (60%+ 40%) by volume resp. consolidated together to the total finished thk. 200 mm & rolling 100 mm layer in two stages with power roller weighing not less than 3 tonnes including excavation upto 300mm depth & laying of dry rubble stone packing 150mm thk. as base course,hand set in regular lines, interstices being filled with small pices of stones, throughly rammed, layer of 50mm screened sand above soling, consolidated and watered complete by protecting the track surface at edges on both sides by providing vertical bricks as direced by engineer including 4" dia. PVC pipe to be laid across the track at every 10 Mtr. intervals etc. complete.	Sqm	2,299



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs.)
R2-CS-RM-69	Supplying and installing jogging track (EPDM granules method) terracotta made of two layered water permeable all weather material of 2mm sprayed coat top with EPDM (Ethylene Propylene Diene Monomer) granules on 12mm in-situ polyurethane bonded rubber granulate sub-base layer of longer life and better UV resistance laid on IPS/PCC surface free from paint, wax, grease, oil, dust and dirt. The item includes cost of material, cleaning the IPS/PCC surface before installation and installation of the 2 layered track with proper slopes.Preparation of IPS/PCC will be paid seperately under relevant items.	Sqm	3,626
R2-CS-RM-70	Providing and maintaining Barricading on the site 2.5 m high by using MS Pipes or angle iron frame work of verticals at 3 m c/c and horizontals at 0.90 m c/c, Galvalume sheets, Struts, MS Clamps, etc. The verticals shall be embedded/ fixed to concrete pedestals below ground. The rate to include fabricating, cutting and fixing in position MS frame work, painting the same with two coats of approved anti rust paint, etc complete. Contractor to get structural design approved by the Engineer. Contractor shall remove and take away the barricading at his own cost on completion of the works.	Rmt	3014
R2-CS-RM-71	Providing and maintaining Barricading on the site 5 m high by using MS Pipes or angle iron frame work of verticals at 3 m c/c and horizontals at 0.90 m c/c, Galvalume sheets, Struts, MS Clamps, etc. The verticals shall be embedded/ fixed to concrete pedestals below ground. The rate to include fabricating, cutting and fixing in position MS frame work, painting the same with two coats of approved anti rust paint, etc complete. Contractor to get structural design approved by the Engineer. Contractor shall remove and take away the barricading at his own cost on completion of the works.	Rmt	6400
R2-CS-RM-72	To carry out total station survey of open plot with reference to existing co-ordinate system by establishing control stations by establishing temporary bench mark from permanent bench mark, marking the traverse on open plot by nails, carrying out detailed levelling at a longitudinal and lateral interval of 10m(i.e. forming grid of 10mx10m), plotting cross sections, cross distance, preparing drawings on Auto cad to the scale of 1:500, mentioning all the dimensions on the plan,super imposing CTS plan/DP remarks/demarcation plan and supplying 3 hard copies and 1 soft copy in C.D. form.. etc.	upto 1000 Sqm	44001
R2-CS-RM-73	--do-- for every additional 1000sqm area or part thereof	each 1000 Sqm	22000



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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs.)
R2-CS-RM-74	To carry out total station survey of encroached plot with obstructions like slum or group of buildings reference to existing co-ordinate system by establishing control stations by establishing temporary bench mark from permanent bench mark, marking the traverse on open plot by nails, carrying out detailed levelling at a longitudinal and lateral interval of 10m(i.e. forming grid of 10mx10m) marking the existing structures on the plan and computation of built up area under each structure and presenting in tabular format on the plan, plotting cross sections, cross distance, preparing drawings on Auto cad to the scale of 1:500, mentioning all the dimensions on the plan, super imposing CTS plan/DP remarks/demarcation plan and supplying 3 hard copies and 1 soft copy in C.D. form.. etc.	upto 1000 Sqm	55000
R2-CS-RM-75	--do-- for every additional 1000sqm area or part thereof	each 1000 Sqm	33000
R2-CS-RM-76	Refixing C.I. and UPVC vent , soil, waste and rain water pipe of any size including cleaning and making good masonry of walls cornices etc. before fixing including fitting such as W.I. clamps, accessories of approved make with scaffolding etc. complete.	Rmt	152
R2-CS-RM-77	Refixing Teak wood plank, eaves plate or barge board any thickness at any height.	Sqm	285
R2-CS-RM-78	Refixing C. I. spiral staircase of any size with Balusters, Hand Rail, landing, newel post etc., complete including two coats of painting.	Step	96
R2-CS-RM-79	Refixing galvanised iron ridges and hips any size with necessary bolts and nuts.	Rmt	20
R2-CS-RM-80	Refixing C. I. frame and cover (any size or shape) in C. S. (1 : 2) & Sand filleting	each	84
R2-CS-RM-81	Refixing rafters, principal hips, ridges, purlins and post with plates with new nails, screws, bolts etc., including cutting and notching	Rmt	18
R2-CS-RM-82	Removing C. I. gratings of any size from the existing terrace including plugging the holes in masonry with 1:2:4 c.c. and refixing the same in the new terrace etc. complete.	Nos	67
R2-CS-RM-83	Removing & refixing existing steel casement windows of any type and repairing / replacing the damaged members, making good the damaged brick work etc. complete including painting.	Sqm	713
R2-CS-RM-84	Refixing the compound gate with necessary fixtures and fastening if required, including 3 coats of painting etc., complete.	Each	293
R2-CS-RM-85	Refixing teakwood, C. I. sheet or plywood partition including frame-work with two coats of approved paint in any colour.	Sqm	106



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs.)
R2-CS-RM-86	Fencing with angle iron post placed at required distance embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be strutted on both sides and end post on one side only and provided with horizontal lines and two diagonals interwoven with horizontal wires, of G.I. barbed wire weighing 9.38 kg per 100 m (minimum), between the two posts fitted and fixed with G.I. staples, turn buckles etc. complete. (Cost of angle posts, struts, earth work and concrete work to be paid for separately) :- Payment to be made per metre cost of total length of G.I. barbed wire used.	Rmt	18
R2-CS-RM-87	Cement plaster band projecting 25 mm to 30 mm and 75 mm to 100 mm wide on the face, in cement mortar 1c : 3s with chamfered or plain edges, finished to smooth surface.	Rmt	60
R2-CS-RM-88	Cement plaster band projecting 25 mm to 30 mm and above 150 mm, upto 200 mm wide on the face, in cement mortar 1c : 3s with chamfered or plain edges, finished to smooth surface.	Rmt	120
R2-CS-RM-89	Providing and fixing aluminium kickplate of required width to flush and any door shutter using 24 G aluminium sheet with 3 coats of painting etc. complete.	Sqm	928
R2-CS-RM-90	Hand polishing of existing Mosaic tiles in Dado of walls using pumice stones, oxalic acid etc., to remove stains and give a glossy surface. (Add Rs. 4.00 sq.m. if the polishing to the existing marble or granite is to be done.)/Providing wax polishing to floors and dado, preparing the surface scaffolding etc. complete.	Sqm	32
R2-CS-RM-91	Providing wax polishing to floors and dado, preparing the surface scaffolding etc. complete.	Sqm	109
R2-CS-RM-92	Dammering with two coats with dongri cloth etc., complete (Actual area treated will be paid for & rate includes scrapping, cleaning of existing slab/cony type of roof)	Sqm	43
R2-CS-RM-93	Providing and laying Bamboo matting as required on site and :is directed for weather shed chajja (b) Bamboo matting-Double Bamboo Mats shall be provided and flat area covered by - double matting shall be measured and paid for	Sqm	85
R2-CS-RM-95	Providing & fixing factory made Fibreglass Reinforced plastics (F.R.P.) chajja 4 mm thick of required colour, size and design made by Resin Transfer Moulding (RTM) Machine Technology, resulting in void free compact laminate in single piece, having smooth gradual slope curvature for easy drainage of water and duly reinforced by 2 nos vertically and 1 nos horizontally 50x2 mm thick M.S. flat with 12 mm in built hole for grouting on the existing wall along with the 50 mm flanges duly inserted and sealed in the wall complete in one single piece casted monolithically, including all necessary fittings. The FRP chajja should be manufactured using unsaturated Polyester resin as per IS:6746, duly reinforced with fibre glass chopped strand mat (CSM) as per IS:11551 complete with protective gel coat U/V coating on top for complete resistance from the extreme of temperature, weather and sunlight.	Sqm	2,328



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs.)
R2-CS-RM-96	Providing & fixing composite hot press glass fibre reinforced mosquito proof lid for water storage tank, for prevention of malaria including transport, locking arrangement etc. complete as directed For tank capacity upto 3000 liters.	Each	1,584
R2-CS-RM-97	Providing & fixing composite hot press glass fibre reinforced mosquito proof lid for water storage tank, for prevention of malaria including transport, locking arrangement etc. complete as directed For tank capacity above 3000 liters.	Each	2,754
R2-CS-RM-98	Providing & constructing Soft board panelling with soft board & fabric. Basic rate of fabric is 150/metre	Sqm	900
R2-CS-RM-99	P/F Aluminium composite sheet of 3 mm thick either suspended or fixed bracketed on wall with U.V digital printing at suitable locn including all necessary framework completed as per detailed drawings to be issued during construction & as directed by the engineer.	Sqm	6,847
R2-CS-RM-100	Drilling with core cutting machine in RCC slabs, walls etc. wherever required in buildings, manholes, ducts, water tanks, pits etc. for laying pipes, sleeves and making good the same to give an even finish. The rate shall include the cost of drilling core, providing EPOXY based water proofing compound for sealing the joints around the pipes, nominal reinforcement wherever required, scaffolding and labour charges for working at all levels, leads and heights. (Maximum thickness of RCC members shall be 300mm) and as directed by Engineer-In-Charge.		
R2-	Upto 25mm dia	Each	130
R2-CS-RM-101	b) -Do- Above 25mm to 50mm dia	Each	238
R2-CS-RM-102	c) Above 50mm to 75mm dia	Each	330
R2-CS-RM-103	d) Above 75mm to 100mm dia	Each	461
R2-CS-RM-104	e) Above 100mm to 150mm dia	Each	660
R2-CS-RM-105	f) Above 150 mm to 200mm dia	Each	990
R2-CS-RM-106	g) Above 200 mm to 250mm dia	Each	1,320
R2-CS-RM-107	Injecting approved low viscous epoxy grout into concrete slab, stone masonry cracks, columns etc. by suitable gun/ pump (using Araldite GY-257 & Aradur -21 in 1:0.21 prop.) at required pressures by providing necessary scaffolding, drilling and inserting 12mm dia. Brass grouting multiperforated nipples upto 30mm to 40mm depth, using M Seal, Quartz sand around the nipple, cutting of nipples after curing, cleaning etc. complete. (This item shall be paid on actual consumption of epoxy used in Kgs.)	Kg	170
R2-CS-RM-108	Grouting pockets, holes, pipe sleeves of any shape or size for column bases, machine foundations, etc. with ready to use non shrink high strength grout of approved make, as per manufacturer's specifications and instructions/ recommendations, including roughening of surfaces, cleaning with compressed air/ water jets, ramming, curing, etc. complete.	Kg	180
R2-CS-RM-109	Providing and fixing in position Curtain rod of aluminium colour anodized circular tubular section including the fixing sockets on both sides.	Rmt	600



Buildings Schedule/ Common Schedule
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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs.)
R2-CS-RM-110	Stitching of Curtains for windows and doors and fixing the same with approved fabric and buttons, accessories, etc complete.	Sqm	206
R2-CS-RM-111	Supplying and fixing on hiring/rental basis for the interval of six months in vertical position telescopic M.S.prop under deflected beam/lintel/slab/chajjas by using teak wood battens of size 1000 x 80 x 80 for packing between prop plate and the beam/lintel/slab/chajjas bottom surface and dismantling and removing from site when not required as per the directions of engineer-in-charge.	Each	2,500
R2-CS-RM-112	Extra and above for item no.CS-RM-111 for every six months then	Each	2,369
R2-CS-RM-113	Supplying and fixing on hiring/rental basis for the interval of six months in vertical position two telescopic M.S. prop spanning upto 1.5m under deflected beam/lintel/slab/chajjas by using teak wood battens of size 2000 x 150 x 40 for packing between prop plate and the beam/lintel/slab/chajjas bottom surface. Also tied with M.S.tube transom of 40mm dia and dismantling and removing from site when not required as per the directions of engineer-in-charge.	Each	5,204
R2-CS-RM-114	Extra and above for item no.CS-RM-113 for every six months then	Each	4,162
R2-CS-RM-115	Providing and installing Diving board of Indian Pine wood single piece of length 5m and width of 0.5m with spring and coated with aqua coloured thermal curing epoxy resin including grouting of bolts in the RCC pedestal as per the directions of Engineer-in-charge	Each	21,420
R2-CS-RM-116	Providing and fixing of 40mm thick FRP heavy duty grating of approved make for near the swimming pool of required shape and sizes.The rate shall include cost of providing 50mm x 50mm x 5mm thick MS angle, hold fast with application of two coats of primer and enamel paint of approved colour, etc. complete	Sqm	526
R2-CS-RM-117	Providing and constructing discharge ring well of 1.5m dia and depth upto 6m made of RCC pipe collar including excavation and stacking the soil and disposing as per the instructions of engineer-in-charge, pumping of water, lowering the collars by means of lifting tackles and filling with gravels and boulders from outside of the circumference of the collar so as to allow infiltration of ground water inside the well through the gap between the collars.	Each	144850.00
R2-CS-RM-118	Providing and constructing recharge ring well of 1.2m dia and depth upto 6m made of RCC pipe collar including excavation and stacking the soil and disposing as per the instructions of engineer-in-charge, pumping of water, lowering the collars by means of lifting tackles and filling with gravels and boulders from outside of the circumference of the collar so as to allow infiltration of supplied water from inside of the well through the gap between the collars to the ground water aquifer.	Each	105432.00



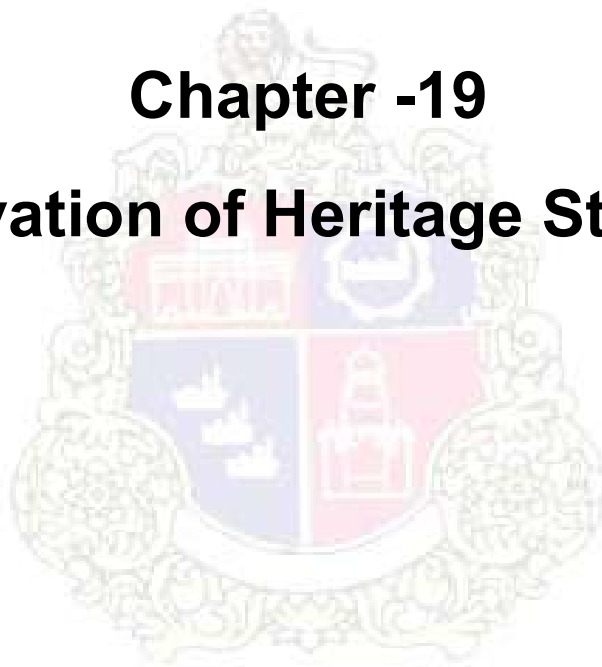
Buildings Schedule/ Common Schedule
Repair Works

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs.)
R2-CS-RM-119	High back Chair: Providing and supplying center pivot, revolving, High back chair Depth-45cm, width-50cm, height-121cm to 131cm & seat height-45cm to 55cm. (+/- 2cm) with five legged metal /moulded nylon base with push back arrangement. Chairs shall have high density moulded ,360 revolving on suitable base, gas lift , heavy duty twin wheel castors to take min 80 kg/castor with two - pneumatic height adjustment one piece moulded type polypropylene armrest. The chair shall be provided with approved tapestry upto Rs 300/m with necessary beading wherever required. All metal work shall be Epoxy Polyster Powder Coated.	Each	6490.00
R2-CS-RM-120	Mid back Chair: Providing and supplying center pivot, revolving, Mid back chair Depth-45cm, width-50cm, height-105cm to 115cm & seat height-45cm to 55cm. (+/- 2cm) with five legged metal /moulded nylon base with push back arrangement. Chairs shall have high density moulded ,360 revolving on suitable base, gas lift , heavy duty twin wheel castors to take min 80 kg/castor with two - pneumatic height adjustment one piece moulded type polypropylene armrest. The chair shall be provided with approved tapestry upto Rs 300/m with necessary beading wherever required. All metal work shall be Epoxy Polyster Powder Coated.	Each	4130.00
R2-CS-RM-121	Low back Chair: Providing and supplying center pivot, revolving, low back chair Depth-45cm, width-50cm, height-81cm to 91cm & seat height-45cm to 55cm. (+/- 2cm) with five legged metal /moulded nylon base with push back arrangement. Chairs shall have high density moulded ,360 revolving on suitable base, gas lift , heavy duty twin wheel castors to take min 80 kg/castor with two - pneumatic height adjustment one piece moulded type polypropylene armrest. The chair shall be provided with approved tapestry upto Rs 300/m with necessary beading wherever required. All metal work shall be Epoxy Polyster Powder Coated.	Each	3540.00
R2-CS-RM-122	Visitor Chair : Providing and supplying visitor chair having size Depth-62cm, width-55cm, height-80cm & seat height 45 cm. (+/- 2cm), having seat & back, shall be made up of 1.2 cm hot pressed plywood, approved tapestry upto Rs.300/m and mould polyurethane foam with P.V.C. lipping all around. The chair shall be provided with two one piece armrest made of polypropylene. The chair shall be supported by cantilever type powder coated tubular frame dia 2.54cm x 14 B G M.S.E.R.W. tube. All aluminium steel component shall have Epoxy Polyster Powder Coated. Dry film thickness shall be more than 45 Micron.	Each	4720.00



Chapter -19

Conservation of Heritage Structures



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs.)
R2-CS-CH	Conservation of Heritage Structures		
R2-CS-CH-1	Gently cleaning the surface of stone masonry and piers with specialized water misting techniques employing air water jet using a fine nozzle sprinkling system calibrated to spray fine mist along the stone surface without over wetting followed up by gentle brushing with soft nylon brushes and removing dirt, dust, bird dropping, grease, oil, algae, fungus, monkey beats, vegetable growth etc.as specified. Gentle surface cleaning may include using water misting and mild pH balanced surfactants as specified for indicated areas to remove the surface dirt, grit accretions by means of water misting and cleaning etc. complete as directed by the Engineer in Charge.(The rate is inclusive of all materials & labours involved except scaffolding).	Sqm	103
R2-CS-CH-2	Providing and erecting two legged metal tubular scaffolding (cup lock type) of width 1200 to 1500mm largely free standing using H frames of tubular pipes of minimum 40mm diameter, with base plates fixed or adjustable with necessary clamps, couplers, brackets for projections, joint pins, pulleys and other accessories including steel angle or tubular pipe bracings at adequate intervals, access platforms of metal or timber planks of span not exceeding 1.5 metre centre to centre, horizontal & vertical tubes joint with cup & lock system with M.S. Tubes, M.S. tube chalis, M.S. clamps and staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for execution of work including provision of rubber inserts to pipe ends at point of contact with structure to avoid damage, including access ladders with intermediate platforms. the scaffolding to be suitably braced and anchored to the building using support systems created temporarily at the opening in walls using vertical and horizontal adjustable props on the exterior side of building structure, upto 25 metre height, above ground level . The rate includes provision of high density plastic sheets covering to protect architectural details on the entire building face a nylon net to prevent all debris falling onto the pavement required and the safety platform at ground level covering the pedestrian walkways. etc. complete.(The elevational area of the scaffolding shall be measured for payment purpose.The payment will be made once only for execution of all items for such works.	Sqm	387
R2-CS-CH-3	Applying breathable, non-reactive, antifungal, and water repellent Silane/ Siloxane chemical as approved by Archaeological Survey of India/ Engineer-in-charge, of approved brand and manufacture, diluted with solvent mineral Turpentine oil in the ratio of 1:12 (One part of approved chemical :12 Part of Turpentine oil), on the existing sand stone masonry surface with two or more coats to give uniform application of chemical on the surface, all complete as per direction of Engineer-In-charge (The rate is inclusive of all materials & labours involved except scaffolding).	Sqm	107



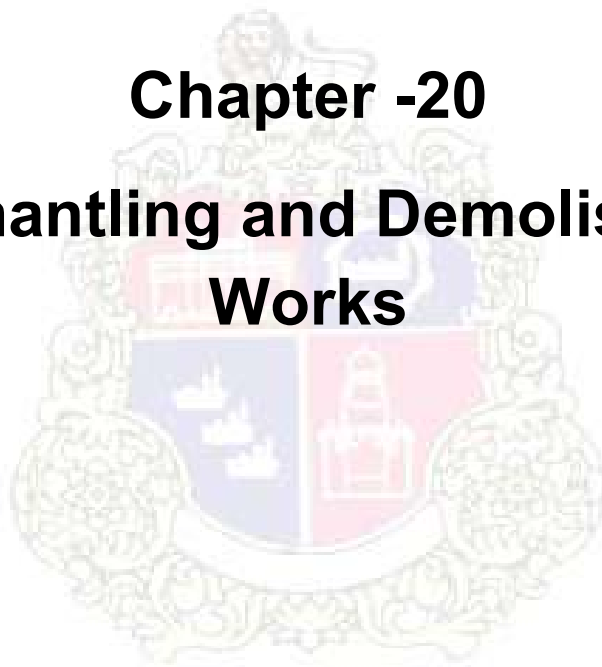
Buildings Schedule/ Common Schedule 2018
conservation of Heritage structures

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs.)
R2-CS-CH-4	Applying two or more coat of Ethyl Silicate chemical as approved by Archaeological Survey of India/ Engineer-in-charge, of approved brand and manufacturer, with brush or spray on the existing stone masonry surface till there is no further absorption of chemical by stone surface, including protecting the applied surface from direct sunlight by suitable means during application, all complete as per direction of the Engineer-in-Charge (The rate is inclusive of all materials & labours involved except scaffolding).	Sqm	203
R2-CS-CH-5	Ruled /Flush pointing on White/Red sand stone masonry surface with lime, surkhi and marble dust mortar in the ratio of 1:1.5:1/2 {One lime: 1.5 surkhi (50% red and 50% light yellow surkhi):1/2 marble dust}. (The rate is inclusive of all materials & labours involved except scaffolding).	Sqm	217
R2-CS-CH-6	Providing and applying antifungal wash treatment using 3% solution of sodium pentachlorophenate, of reputed brand and manufacturer, on cleaned sand stone surface at desired locations as per direction of Engineer-in-charge (The rate is inclusive of all materials & labours involved except scaffolding).	Sqm	45



Chapter -20

Dismantling and Demolishing Works



Buildings Schedule/ Common Schedule 2018
Dismantling and Demolishing Works

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-DD	DISMANTLING AND DEMOLISHING WORKS		
R2-CS-DD-1	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.	Cum	1,314
R2-CS-DD-2	Demolishing R.C.C. slab, R.C.C. wall of any thickness, R.C.C. beams, joists, R.C.C. columns, piles, pile caps etc., in any thickness and size manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	Cum	1,837
R2-CS-DD-3	Demolishing brick work in lime or cement mortar including plaster, paint, etc. manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.	Cum	484
R2-CS-DD-4	Removing mortar from bricks and cleaning bricks including stacking within a lead of 50 m (stacks of cleaned bricks shall be measured) :		
R2-CS-DD-4-a	From brick work in mud mortar	1000 nos	1,246
R2-CS-DD-4-b	From brick work in lime mortar	1000 nos	1,418
R2-CS-DD-4-c	From brick work in cement mortar	1000 nos	1,798
R2-CS-DD-5	Demolishing stone rubble masonry manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge :		
R2-CS-DD-5-a	In lime mortar	Cum	1,209
R2-CS-DD-5-b	In cement mortar	Cum	1,393
R2-CS-DD-6	Dismantling dressed stone work ashlar face stone work, marble work or precast concrete work manually/ by mechanical means including stacking of serviceable and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge		
R2-CS-DD-6-a	In lime mortar	Cum	827
R2-CS-DD-6-b	In cement mortar	Cum	1,620



Buildings Schedule/ Common Schedule 2018
Dismantling and Demolishing Works

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-DD-7	Removing mortar from and cleaning stones and concrete articles (net quantity of stacks of cleaned materials will be measured) :		
R2-CS-DD-7-a	In lime mortar	Cum	273
R2-CS-DD-7-b	In cement mortar	Cum	391
R2-CS-DD-8	Dismantling doors, windows, fanlight and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :		
R2-CS-DD-8-a	Of area 3 sq. metres and below	each	216
R2-CS-DD-8-b	Of area beyond 3 sq. metres	each	296
R2-CS-DD-9	Removing doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead :		
R2-CS-DD-9-a	Of area 3 sq. metres and below	each	84
R2-CS-DD-9-b	Of area beyond 3 sq. metres	each	111
R2-CS-DD-10	Dismantling wood work in frames, trusses, purlins and rafters up to 10 metres span and 5 metres height including stacking the material within 50 metres lead :		
R2-CS-DD-10-a	Of sectional area size of 40 square centimetres and above	Cum	2,638
R2-CS-DD-10-b	Of sectional area size of below 40 square centimetres	Rmt	11
R2-CS-DD-11	Extra for dismantling trusses, rafters, purlins etc. of wood work for every additional span of one metre or part thereof beyond 10 metres :		
R2-CS-DD-11-a	Of sectional area 40 square centimetres and above	Cum per metre span	343
R2-CS-DD-11-b	Of sectional area below 40 square centimetres	Metre per metre span	1
R2-CS-DD-12	Extra for dismantling trusses, rafters, purlins etc. of wood work for every additional height of one metre or part thereof beyond 5 metres		
R2-CS-DD-12-a	Of sectional area 40 square centimetres and above	Cum per metre height	497



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Dismantling and Demolishing Works

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-DD-12-b	Of sectional area below 40 square centimetres	Metre per metre height	2
R2-CS-DD-13	Dismantling steel work in single sections including dismembering and stacking within 50 metres lead in:		
R2-CS-DD-13-a	R.S. Joists and sections	Kg	2
R2-CS-DD-13-b	Channels, angles, tees, square bar, flats, tubes	Kg	1
R2-CS-DD-14	Dismantling steel work in built up sections in angles, tees, flats and channels of rolling shutters, grills, gates, fencing, hoardings, including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50metres lead.	Kg	3
R2-CS-DD-15	Dismantling steel work manually/ by mechanical means in built up sections without dismembering and stacking within 50 metres lead as per direction of Engineer-in-charge.	Kg	2
R2-CS-DD-16	Extra for dismantling trusses members, rafters, purlins etc. of steel work for every additional span of one metre or part thereof beyond 10 metres	Kg per metre span	0.48
R2-CS-DD-17	Extra for dismantling trusses members, rafters, purlins etc. of steel work for every additional height of one metre or part thereof beyond 5 metres.	Kg per metre height	0.48
R2-CS-DD-18	Extra for marking of structural steel work required to be re-erected.	Kg	3
R2-CS-DD-19	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.		
R2-CS-DD-19-a	For thickness of tiles 10 mm to 25 mm	Sqm	43
R2-CS-DD-19-b	For thickness of tiles above 25 mm and up to 40 mm	Sqm	68
R2-CS-DD-20	Demolishing dry brick pitching in floors, drains etc. including stacking serviceable material and disposal of unserviceable material within 50 metres lead :	Cum	742
R2-CS-DD-21	Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	Sqm	150



Buildings Schedule/ Common Schedule 2018
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ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-DD-22	Demolishing brick tile (brick bat) covering in terracing including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	Sqm	63
R2-CS-DD-23	Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material within 50 metres lead of :		
R2-CS-DD-23-a	G.I. Sheet	Sqm	96
R2-CS-DD-23-b	Asbestos sheet	Sqm	45
R2-CS-DD-24	Dismantling stone slab roofing over wooden karries or R.C.C. battens (dismantling karries and battens to be paid for separately), including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	Cum	1,499
R2-CS-DD-25	Dismantling jack arch roofing and floors including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	Sqm	143
R2-CS-DD-26	Dismantling tiled roofing with battens, boarding etc. complete including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	Sqm	118
R2-CS-DD-27	Demolishing thatch roofing including mats, bamboo, jaffari etc. complete including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	Sqm	32
R2-CS-DD-28	Dismantling wooden ballies in posts, struts and battens including stacking within 50 metres lead.	Rmt	12
R2-CS-DD-29	Dismantling and stacking within 50 metres lead, fencing posts or struts including all earth work and dismantling of concrete etc. in base of :		
R2-CS-DD-29-a	T' or 'L' iron or pipe	each	130
R2-CS-DD-29-b	R.C.C.	each	134
R2-CS-DD-30	Cutting ballies or wooden posts of fencing at the point of projection above the concrete or ground and stacking the same within 50 metres lead.	each	7



ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-DD-31	Dismantling barbed wire or flexible wire rope in fencing including making rolls and stacking within 50 metres lead.	Kg	21
R2-CS-DD-32	Dismantling wooden planking with joint and coba, etc. including stacking the serviceable material within 50 metres lead.	Sqm	37
R2-CS-DD-33	Dismantling expanded metal or I.R.C. fabrics with necessary battens and beading including stacking the serviceable material within 50 metres lead.	Sqm	43
R2-CS-DD-34	Dismantling wooden boardings in lining of walls and partitions and plankings in ceiling, eaves or barge board, eaves plate, excluding supporting members but including stacking within 50 metres lead :		
R2-CS-DD-34-a	Up to 10 mm thick	Sqm	35
R2-CS-DD-34-b	Thickness above 10 mm up to 25 mm	Sqm	45
R2-CS-DD-34-c	Thickness above 25 mm up to 40 mm	Sqm	52
R2-CS-DD-35	Dismantling precast concrete or stone slabs in walls, partition walls etc. including stacking within 50 metres lead:		
R2-CS-DD-35-a	Thickness up to 40 mm	Sqm	164
R2-CS-DD-35-b	Thickness above 40 mm up to 75 mm	Sqm	246
R2-CS-DD-36	Dismantling cement asbestos or other hard board ceiling or partition walls including stacking of serviceable materials and disposal of unserviceable materials within 50 metres lead.	Sqm	33
R2-CS-DD-37	Dismantling C.I., UPVC and asbestos vent pipes and shaft, soil, waste, rain water pipe, mild steel, GI and asbestos gutters, ridge and hips with fittings and clamps including stacking the material within 50 metres lead :		
R2-CS-DD-37-a	75 to 80 mm dia pipe.	Rmt	43
R2-CS-DD-37-b	100 mm dia pipe	Rmt	44
R2-CS-DD-37-c	150 mm dia pipe and rectangular shaft	Rmt	45
R2-CS-DD-38	Dismantling G.I. pipes (external work) including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means including stacking of pipes within 50 metres lead as per direction of Engineer-in-charge :		
R2-CS-DD-38-a	15 mm to 40 mm nominal bore	Rmt	84
R2-CS-DD-38-b	Above 40 mm nominal bore	Rmt	90
R2-CS-DD-39	Dismantling C.I. pipes including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means breaking lead caulked joints, melting of lead and making into blocks including stacking of pipes & lead at site within 50 metre lead as per direction of Engineer-in-charge:		
R2-CS-DD-39-a	Up to 150 mm diameter	Rmt	279
R2-CS-DD-39-b	Above 150 mm dia up to 300 mm dia.	Rmt	357
R2-CS-DD-39-c	Above 300 mm diameter	Rmt	285



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Dismantling and Demolishing Works

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-DD-40	Dismantling steel cylinder R.C. pipes including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means breaking lead caulked joints, melting of lead and making into blocks including stacking of pipes & lead at site within 50 metres lead as per direction of Engineer-in-charge:		
R2-CS-DD-40-a	Up to 600 mm diameter	Rmt	398
R2-CS-DD-40-b	Above 600 mm diameter	Rmt	1,009
R2-CS-DD-41	Dismantling asbestos cement pressure pipes including excavation and refilling trenches after taking out the pipes manually/ by mechanical means and stacking the pipes within 50 metres lead as per direction of Engineer-in-charge:		
R2-CS-DD-41-a	Up to 150 mm diameter	Rmt	187
R2-CS-DD-41-b	Above 150 mm diameter	Rmt	227
R2-CS-DD-42	Removing C.I. cover with frame from R.C.C. top slab of manholes of various sizes including demolishing of R.C.C. work manually/ by mechanical means and stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead as per direction of Engineer-in-charge.	each	392
R2-CS-DD-43	Removing C.I. cover with frame from R.C.C. top slab of inspection chambers of various sizes including demolishing of R.C.C. work manually/ by mechanical means and stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead as per direction of Engineer-in-charge.	each	228
R2-CS-DD-44	Dismantling of R.C.C. spun vent shaft including excavating the cement concrete pit completely, taking out the shaft, refilling the excavated gap, stacking the useful materials near the site and disposal of unserviceable materials within 50 metres lead.	each	2,515
R2-CS-DD-45	Dismantling of road gully chamber of various sizes including C.I. grating with frame including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead including refilling the excavated gap.	each	580
R2-CS-DD-46	Dismantling of flushing cistern of all types (C.I./PVC/Vitrious China) including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.	each	521
R2-CS-DD-47	Dismantling of C.I. sluice valve including stacking of useful materials within a lead of 50 metres		
R2-CS-DD-47-a	Up to 150 mm diameter	each	185
R2-CS-DD-47-b	Above 150 mm diameter	each	691
R2-CS-DD-48	Dismantling of spindle fire hydrant including stacking of useful materials within 50 metres lead.	each	425
R2-CS-DD-49	Dismantling of cement concrete platform along with curtain walls and base concrete etc. including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead :		
R2-CS-DD-49-a	120 x 120 cm (outside to outside)	each	711
R2-CS-DD-49-b	210 x 120 cm (outside to outside)	each	1,006
R2-CS-DD-49-c	320 x 120 cm (outside to outside)	each	1,479



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Dismantling and Demolishing Works

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-DD-50	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	Sqm	31
R2-CS-DD-51	Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material within 50 meters lead as directed by Engineer-in-charge.	Sqm	33
R2-CS-DD-52	Dismantling of flexible pavement (bituminous, WBM and WMM courses) by mechanical means and disposal of dismantled material up to a lead of 1 kilometre, as per direction of Engineer-in-charge.	Cum	305
R2-CS-DD-53	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all loads including all lifts involved.	Cum	191
R2-CS-DD-54	Cutting down masonry work in lime or cement mortar including plaster etc. complete.	Cum	531
R2-CS-DD-56	Removing any existing water proofing layers of I. P. S. with bituminous joints and brick bat concrete over the existing terrace floor, chajja, top of headroom slab and canopy including cement vata and exposing R.C.C. slab top complete.	Sqm	218
R2-CS-DD-57	Removing M.S. pressed steel or G.I. storage tanks of any size upto 5400 litres capacity from the existing terrace including disconnecting the existing fittings and refixing the same on the new terrace in position as directed including hoisting the same, providing new C. C. uthalas and C. C. blocks for ladders and applying 3 coats of Syn. Ena. Paint after scrapping the old, fixed complete as directed.	Nos	10,473
R2-CS-DD-58	Extra for increase in the size of tank than above by every 500 litres or part thereof.	Nos	846
R2-CS-DD-59	Removing and refixing G.I. pipes of any size with all new fittings if necessary complete including cleaning and painting.	R.M.	192
R2-CS-DD-60	Removing and refixing drain pipe (soil, waste water, ventilating or rain water) of any size with all fittings including cleaning pipe before fixing and painting as directed.	R.M.	456
R2-CS-DD-61	Removing and refixing iron ladder for storage tanks including drilling holes in concrete etc. complete and fixing with new bolts and nuts, if necessary and making good the damaged masonry and concrete.	Nos	572



Buildings Schedule/ Common Schedule 2018
Dismantling and Demolishing Works

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-DD-62	Removing and refixing the existing rolled steel joist beams, stanchions etc., of about 5 m length including repainting the same with 3 coats of Syn. Ena. paint after scraping the old paint complete.	MT.	14,819
R2-CS-DD-63	Removing C. I. gratings of any size from the existing terrace including plugging the holes in masonry with 1:2:4 c.c. and refixing the same in the new terrace etc. complete.	Nos	92
R2-CS-DD-64	Removing mosaic, cement marble, granites non-slippery, tandur, kotah, shahabad stone or Indian Pattern stone, glazed tiles in flooring and dado including bedding brick bat coba etc., and delivering materials in Ward Office and carting away unserviceable materials.	Sqm	240
R2-CS-DD-65	Removing cement plaster of any finish from the wall, complete with racking out the joints to a depth of 20 mm.	Sqm	147
R2-CS-DD-66	Breaking the existing terrace parapet with coping and plaster including brick pillars at the upper floor level including breaking the R.C.C. slabs for taking out reinforcement for the R.C.C. parapet, column etc. complete.	Cum	1,437
R2-CS-DD-67	Breaking carefully the existing staircase parapet return on the terrace floor, exposing and strengthening bars and jointing to the bar of the new stair flight, including refixing wooden handrail removed from the existing terrace return on the new terrace floor, after polishing the same complete with 3 coats of paint.	Sqm	696
R2-CS-DD-68	Removing and refixing A.C., UPVC and CI cowl caps of any size over pipes.	Nos	80
R2-CS-DD-69	Removing the existing compound barbed wire fencing including wooden or concrete posts with foundations and depositing all serviceable materials at the nearest Municipal Ward Office. (This includes rows of barbed wire placed horizontally or placed spirally along the length.)	R.M.	192
R2-CS-DD-70	Removing and refixing existing door or window with frames and shutters, making good the damaged brick work and applying 3 coats of Syn. Ena. paint.	Nos	1,976
R2-CS-DD-71	Removing existing door or windows with frame and shutters and making good etc. to the existing surface.	Nos	563
R2-CS-DD-72	Removing the existing mangalore tiles roofing carefully including teak wood purlins, rafters, battens and boarding and G. I. sheet gutters from the floor and refixing the same on the above one in a similar way including providing new teak batten and applying 3 coats of approved Syn. Ena. paint in approved tint to the entire teak battens work including providing and fixing iron bolts, nuts, screws and all other fixing accessories as required replacing broken tiles, as specified and directed.	Sqm	865



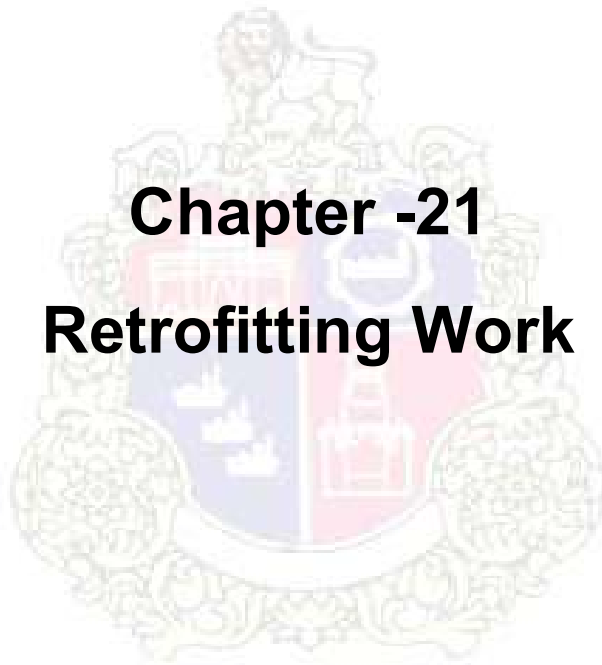
Buildings Schedule/ Common Schedule 2018
Dismantling and Demolishing Works

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-DD-73	Removing completely the existing teak wood roof trusses and refixing the same on the above floor in a similar way providing and fixing as required iron bolts, nuts and applying 3 coats of approved Syn. Ena. paint in approved tint to the entire wood work, including scrapping old surfaces as specified and directed.	Nos	7,619
R2-CS-DD-74	Removing carefully existing weather shed including T. W. frame work etc. and refixing the same wherever directed after replacing the damaged materials including 3 coats of Syn. Ena. paint as directed.	Nos	680
R2-CS-DD-75	Removing or destroying plants etc. growing on walls, drainage pipes, destroying roots by applying approved weedicide & reinstating the wall surface by plaster to the damage surface of the building	Sqm	47
R2-CS-DD-76	Removal of existing flushing cistern with all fittings at any height with making surface good and depositing all materials to Municipal Store etc. complete as directed.	Nos	356
R2-CS-DD-77	Breaking stems of R.C.C. members viz., columns, plinth beams, beams, piles, pile caps, slabs, R.C.C. walls etc. of any grade of concrete without damaging reinforcement (bars) after removing rust, cleaning the same etc., including removal of debris etc. complete as directed.	Cum	2,398
R2-CS-DD-78	Removing shutters of doors and windows without frame.	Sqm	177
R2-CS-DD-79	Removing soil pan, urinal, wash basin and sink of any type, size, make and brand including its bedding drainage fitting. etc. complete.	Each	110
R2-CS-DD-80	Removing G.I. pipes internal exposed of any size including fittings etc complete	Rmt	65
R2-CS-DD-81	Removing G.I. pipes internal concealed of any size including fittings etc complete	Rmt	187
R2-CS-DD-82	Removing existing R.C.C. jallies of any design & deposit to ward store complete.	Sqm	97
R2-CS-DD-83	Removing C. I. spiral staircase of any size with Balusters, Hand Rail, landing, newel post etc., complete	Step	85
R2-CS-DD-84	Cutting down small tree upto 230 mm. dia. of girth (measured at a height of 1m above ground level) including cutting of branches and trunks, removing of roots completely, disposal of unserviceable material and depositing the serviceable or cut- materials to respective Ward Office as directed.	Plant	467
R2-CS-DD-85	Cutting down small tree over 230 mm. dia. of girth (measured at a height of 1m above ground level) including cutting of branches and trunks, removing of roots completely, disposal of unserviceable material and depositing the serviceable or cut- materials to respective Ward Office as directed.	Plant	1447



Chapter -21

Retrofitting Work



Buildings Schedule/ Common Schedule 2018
Retrofitting Works

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-RF	RETROFITTING WORKS		
R2-CS-RF-1	Application of Corrosion Inhibitor: Providing & applying One coat of Concrete Penetrating Corrosion Inhibitor (Surface applied) which works on Bipolar Inhibition Mechanism on entire concrete surface to be repaired by using brush or spray at 250 ml per Sq.Mt./Coat or as per manufacturer's specification and prior to application of first coat of anti corrosive coating to reinforcement.	Sqm	149
R2-CS-RF-2	Anti Corrosive coating to exposed reinforcement: Providing & applying Two coats of Anti Corrosive protective coating (CBRI / CSIR technology) for reinforcement bars by brush. Sprinkle dry sand when second coat is tacky so as to get rough surface.	MT	6806
R2-CS-RF-3	Shear Connectors: Make 10/12 mm dia holes using heavy duty electrically operated hammer drills in the concrete of RCC members to a depth of about 75 mm at 500 mm c/c or at suitable grid in zig-zag fashion, clean the holes using air jet and fix pre-fabricated 100 x 50 mm L-shape 8 mm dia rebar using Anti Corrosive protective coating so that 75 mm out of 100 mm is inserted inside the concrete and 25 mm remain outside along with 50 mm bend. The shear connectors are used to tie the additional reinforcement bars.	Nos	480
R2-CS-RF-4	Additional Reinforcement: Cutting, bending and fixing in position steel reinforcement of specified/required sizes and shapes in the form or main rebars, stirrups & rings, distribution rebars etc., and tying them to shear connectors using GI binding wire. The additional rebars should be coated with TWO coats of Anti Corrosive protective coating & dry sand to be sprinkled on second coat.	MT	65659
R2-CS-RF-5	Bond Coat: Providing & applying One coat of structural grade epoxy bond coat by brush conforming to ASTM-C-882-87 to the prepared concrete surface to be repaired / strengthened. This is applied prior to the application of polymer repair mortar / epoxy mortar / Microconcrete to have monolithic action between old concrete surface and new concrete surface.	Sqm	432
R2-CS-RF-6	Repair with Polymer Modified Mortar (PMM): Repairs to the deteriorated / damaged areas of RCC elements in the structure shall be carried out by using powder Polymer Modified repair mortar. The polymer modified mortar is applied when the epoxy bonding coat is still tacky. In one application 25 mm thickness shall be built. Subsequent layer shall be built with one bond coat of Polymer modified cement slurry. The polymer modified repair mortar shall be mixed, applied and cured as per technical specifications.	Sqm	1679
R2-CS-RF-7	Leak-proof Shuttering for Encasement: Providing, fabricating & fixing the leak-proof shuttering made with marine plywood/M.S. sheets with proper supports at all locations for all shapes etc., for encasement & de-shuttering the same after specified period or next day of placing the micro-concrete / concrete. Providing & applying approved oil on all surfaces of formwork coming in contact with concrete as per specification.	Sqm	R2-CS-CW-30
R2-CS-RF-8	Repair with Microconcrete: Providing, mixing and placing 50 to 100 mm thick encasement with free flow high performance micro-concrete as per technical specification.	Sqm	8323



Buildings Schedule/ Common Schedule 2018
Retrofitting Works

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-RF-9	Sealing of Plaster, IPS and non structural Cracks: Sealing of plaster, IPS and non-structural cracks with non-shrink compound using spatula or putty knife.	Rmt	297
R2-CS-RF-10	Injection Grouting of Super low Viscosity Epoxy Grout System: Pressure grouting Super low viscosity epoxy resin using injector till nozzles refused to accept the grout under pressure of 3-4 Kg/cm ² . Grout the material through pre-fixed nozzles in the structural elements and subsequently cutting /removal of nozzles and sealing of holes with putty . Monitor the leakages through other nozzles while grouting and seal them as per the requirement.	Cum	599281
R2-CS-RF-11	Injection Grouting High Performance Polymer Cement Grout: Providing & injecting high performance non shrink, Anti- washout Polymer Cement Grout per pack of 225gm for 50kg bag of cement as per manufacturer's specifications into honeycombing area / porous concrete with suitable pump at pressure of 2.0 Kg/Cm ² and subsequently cutting /removal of nozzles and sealing of holes with grout etc., complete. This does not include the rate of cement bag.	Per 50 kg bag of cement	409
R2-CS-RF-12	Glass Fiber Wrapping System:	Sqm	4518
	Providing & laying applying Glass Fiber sheet wrap at structural members including		
	Surface Preparation: Grinding / moulding concrete substrate, cleaning it with wire brush, removing oil, laitance if present, rounding sharp edges to min 25 mm radius etc., complete.		
	Profiling: Applying PRIMER on prepared substrate, filling holes and uneven surface with PUTTY etc., complete.		
	Wrapping: Wrapping the Glass fibre wrap to structural element at desired orientation using tamping roller to avoid any air voids etc., Repeat the same procedure for multiple layer with interval of 8 hours.		
	Sand Pasting: Applying saturant, rectify air voids if any, paste the river sand on it to make surface rough to take any further finishes.		
	(Mode of Measurement: Per Sq.Mt of Fiber consume and not application of surface area.)		
R2-CS-RF-13	Carbon Fiber Wrapping System:	Sqm	6114.00
	Providing & laying applying Carbon Fiber sheet wrap at structural members including		
	Surface Preparation: Grinding / moulding concrete substrate, cleaning it with wire brush, removing oil, laitance if present, rounding sharp edges to min 25 mm radius etc., complete.		
	Profiling: Applying PRIMER on prepared substrate, filling holes and uneven surface with PUTTY etc., complete.		
	Wrapping: Wrapping the Glass fibre wrap to structural element at desired orientation using tamping roller to avoid any air voids etc., Repeat the same procedure for multiple layer with interval of 8 hours.		
	Sand Pasting: Applying saturant, rectify air voids if any, paste the river sand on it to make surface rough to take any further finishes.		
	(Mode of Measurement: Per Sq.Mt of Fiber consume and not application of surface area.)		
R2-CS-RF-14	Providing & mixing Bipolar Concrete Penetrating Corrosion Inhibiting Admixture to provide corrosion protection to both anodic and cathodic sites on the steels surface in fresh concrete.	Cum	821.00



Buildings Schedule/ Common Schedule 2018
Retrofitting Works

ITEM CODE	ITEM DESCRIPTION	UNIT	RATE (Rs)
R2-CS-RF-15	Galvanic Protection of Reinforcement in concrete: Providing & fixing zinc based galvanic anodes to the reinforcement. The anode shall be connected to the reinforcement steel by connectors provided with the anode application area is at the junction of repair. One anode per meter including tying to the bar etc., complete.	Nos	1220.00
R2-CS-RF-16	Application of Rust Converter: Providing & applying One coat of Alkaline Rust converting primer conforming to ASTM-B-117, to exposed existing rebars after removing & cleaning loose rust by wire brush and leave it for 6-8 hours.	Sqm	124
R2-CS-RF-17	Surface Preparation: Chipping off and removing loose concrete from damaged concrete portion of columns, beams & slabs etc manually by using chisel and low impact hammer, breaker to expose the sound concrete. Use the portable air blowers to make the surface free from loose material, dirt etc.	Sqm	CS-CW-54
R2-CS-RF-18	Providing and applying Polymer modified cement mortar of average thickness 15mm using Polymer in one or more layers in proportion 1:5:15 of Polymer Cement Quartz Sand as manufacturer's specifications in specific layers, curing the surface after 72 hours of application with wet gunny bags etc and by finishing the surface with 12mm thick (1:3) Cement sand plaster.	Sqm	CS-CW-56
R2-CS-RF-19	Providing and applying Polymer modified cement mortar of average thickness 30mm using Polymer in two layers in proportion 1:5:15 of Polymer Cement Quartz Sand as manufacturer's specifications in specific layers, curing the surface after 72 hours of application with wet gunny bags etc and by finishing the surface with 12mm thick (1:3) Cement sand plaster.	Sqm	CS-CW-57
R2-CS-RF-20	Jacketting the existing column of size as shown in the drawing by removing the concrete cover to reinforcement, by chipping or other suitable means to expose the reinforcement of existing column in order to make available the same for binding the extra reinforcement as shown in the drawing and also removal of rust, scales of the reinforcement in order to provide and apply approved make of epoxy resin to get proper bond with newly laid M25 grade concrete. The aforesaid concrete shall be laid by the sides of the existing column with uniform thickness of 115 mm or as specified, for jacketing purposes thereby increasing the sectional dimensions by 150 mm or as specified (excluding finishing) at any height with requisite shuttering, centring, scaffolding, propping, repairing the existing surface as specified and also removal of debris, curing etc. complete as per design and drawing etc. directed. (NOTE :- Reinforcement will be paid separately under respective item of schedule).	Cum	CS-CW-44
R2-CS-RF-21	Jacketting the existing beam or beam connections as shown in the drawing by removing the concrete cover to reinforcement, by chipping or other suitable means to expose the reinforcement of existing beam or beam connections in order to make available the same for binding the extra reinforcement as shown in the drawing and also removal of rust, scales of the reinforcement in order to provide and apply approved make of epoxy resin to get proper bond with newly laid M25 grade concrete. The aforesaid concrete shall be laid by the sides of the existing beam with uniform thickness of 75 mm or as specified, for jacketing purposes thereby increasing the sectional dimensions by 100 mm or as specified (excluding finishing) at any height with requisite shuttering, centring, scaffolding, propping, repairing the existing surface as specified and also removal of debris, curing etc. complete as per design and drawing etc. directed. (NOTE :- Reinforcement will be paid separately under respective item of schedule).	Cum	CS-CW-44a



Annexure - I

HIC Project Items (Civil)



ITEM NO.	MCGM DESCRIPTION	RATE	UNIT
R2-CS-EW-28	Providing and laying dry rubble stone packing with Municipal rubble hand set in regular lines, interstices being filled in with small pieces of stones, thoroughly rammed, consolidated and watered complete as directed and specified.	CUM	1391
R2-CS-EW-29	Providing & laying dry rubble stone placing 150-230mm thick with municipal rubble	CUM	1391
R2-CS-CW-62	Providing & Laying Plum concrete consisting of 80% P.C.C. mix (1:3:6) and 20% Rubble stone of maximum size of 150 mm laid in layers with ramming consolidating, watering including dewatering cost, seigniorage & conveyance of all materials, labour charges, machine mixing, finishing the surface etc. complete.	CUM	5901
R2-CS-CW-63	As per item no. R2-CS-CW-62 above but with evenly distributed plums of size 160 mm and above upto any reasonable size to a maximum limit of 30% by volume of concrete including mechanically vibrating and compacting, curing, cleaning, dewatering, preparing surface if any, required shuttering including providing pockets of any size and depth, forming drains, sumps etc. complete.	CUM	5111
R2-CS-PL-43	Providing and applying Plaster of Paris punning to walls, beams, ceilings, columns in perfect line and level over the base of single coat cement plaster including roughening of existing surface making 6 mm groove at skirting and door, window jamb, sill, lintel, etc. complete. The rate is exclusive of base coat cement plaster.	SQM	298
R2-CS-PL-44	Providing & applying synthetic plaster "Renova" in metallic finish in 4 coats, base coat to be applied using trowel and the remaining three coats to be applied by brush as per manufacturer specifications on backing coat of 16mm cement plaster (16 mm cement plaster will be paid under separate item) including cost & conveyance of all materials, labour charges, preparing the surface, scaffolding etc. complete all as directed by Engineer - in - Charge.	SQM	2099
R2-CS-PL-45	P&F in position Gypsum board false ceiling with 12.5mm th. Gypsum boards, screwed/ fixed to the under struct of suspended G.I. Grid const & suspended from the main ceiling of ceiling sectn at max c to c distance of 450 mm perimeter channel and intermediate channels at max c to c distance 1200 mm galvanised grid should be fixed to RF CC slab. The gypsum board should be fixed to galvanised iron grid with necessary screws. The boards should be taped and filled from underside to give smooth, seamless ceiling. The rate should include necessary additional ceiling sections and intermediate channels to be provided at openings for light fixtures, asbestos cement ducts, vertical drops, offsets etc. Additional intermediate channels should be fixed to strap hangers for additional support to prevent strapping at every 1200 mm item to be comp in all respect. (G.I. perimeter channel size- 27mmx0.5mm thk., flange-20mm & 30mm, intermediate channel. size- 45mm & 0.9mm thk., hanger size-25mmx0.5mm thk.) complete.	SQM	839
R2-CS-PL-46	Providing and Fixing Modular False Ceiling of "Armstrong /M/s Hunter Douglas India/USG" make by using 600 x 600 x 15 mm thick prima fine fissured microlook mineral fibre ceiling tiles on superfine 15 mm Tee grid system suspended with the help of 2 mm prestrained G.I. wire, etc. complete. As per Architect's Detailed Drawing & Design as directed by Engineer In Charge.	SQM	1211



ITEM NO.	MCGM DESCRIPTION	RATE	UNIT
R2-CS-PL-47	Providing and Fixing ARMSTRONG METAL FALSE CEILING with 0.5mm thick STANDARD PERFORATED METAL CLIP in tiles 600 mm x 600 mm to be suspended from slab with 2.5mm G.I. wire as per Manufacturers specification as directed by Engineer in Charge etc complete	SQM	1283
R2-CS-PL-48	Providing and applying special decorative Malad-crete plaster, forming the joints like Ashlar masonry in c.m. 1:3, using white cement approved pigment and crushed sand out of stones to match with the Ashlar pattern stone Khandki facing on lower floors, necessary curing and finishing with Artificial stone dressing effect all as per instruction complete. (The work to be carried out through specialized skilled masons, competent to carry out such fine finishing works).	SQM	1860
R2-CS-WP-49	Providing & Making Waterproofing Treatment to the Chajja by finishing top surface with 20 mm thick 12 C.M. plaster with addition of approved water proofing compound as per manufacturers specifications and neat cement finish,including drip moulding at edge ,at bottom of chajja & cement vatta above chajja along the junction with wall etc complete. as per FMB item No. 5.22 but for new surfaces & as directed by the Engineer-In-Charge.	SQM	503
R2-CS-PN-26	Providing and applying synthetic enamel paint or flat oil paint in any requiered shade in 3 coats over a primer coat as per manufacturers specifications including scrapping, cleaning the surface etc. Complete.	SQM	200
R2-CS-PN-27	Providing and applying one coat of approved silicate based primer with roller / brush and one coat of granite textured exterior paint of an approved make with spray to get designed finish with two coats of lacquer in approved finish shade of thickness 2-2.5mm as per approved manufacturers specifications to textured sand faced or other surfaces, at all heights and locations as directed including preparing surfaces for painting by any approved means, watering, scaffolding, cleaning and curing etc. complete as directed by Engineer-in-charge.	SQM	1552
R2-CS-FL-78	Providing and laying 20-25mm average thick granite stone laid with knife edge joints over c.m. bedding of 1:6, for flooring / skirting / dado, with cement float and grout of same colour of the stone. The granite flooring shall be mirror polished. Basic rate to be considered @ Rs.2000/- per sq.m. for cut size.	SQM	4259
R2-CS-FL-79	Providing & fixing 20+2 mm thick machine cut mirror polish 1st quality Granite riser 150mm ht. for staircase (black galaxy or approved) polished,including backing coat of 1:4 cement plaster/mortar/cement paste , cleaning etc. complete as per Architects details drawingand design(Basic rate of granite is Rs.220/-Sq.ft.)	MTR	831
R2-CS-FL-80	Providing & fixing 20 +mm thick machine cut mirror polish 1st qualityGranite treads 300mm wide for staircase (black galaxy or approved) including grooves and edge moulding & polishing with backing coat of 1:4 cement plaster/mortar/cement paste,cleaning etc.complete as perArchitects details drawing and design(Basic rate of granite is Rs.220/-Sq.ft.)	MTR	1934



ITEM NO.	MCGM DESCRIPTION	RATE	UNIT
R2-CS-FL-81	Providing&ixing skirting of Vitrified mirror finish size of 100x10mm thick (Nitco ,Euro ,Bell)of approved make & shade and pattern forflooring in required position laid on CM: 1:4 including neat cement slurry,filling joints with colour pigments of matching shade, curingand cleaning etc.complete.	MTR	265
R2-CS-FL-82	Providing & fixing Vitrified tile dado for toilet of size 600x300x10mm thick (Nitco ,Euro ,Bell) of approved make & shade in required position including backing coat plaster in CM:1:4 including neat cement paste curing ,filling the joints with white cement & colour pigmentto match the shade of cladding and cleaning etc.complete. (Basic rate of Vitrifide tile Rs.800/-per Sq.M)	SQM	1991
R2-CS-FL-83	Providing&fixing in position 20 +/-2mm thick machine cut, mirrorpolished, 1st quality granite cladding such as black galaxy or approved equivalent in lift lobby / passage installed in approved pattern and design of size 600 x 1200mm and as directed including backingcoat of 1:4 cement plaster of required thickness with stainless steelfasteners cleats etc. The joint between the granite slabs to be filled white cement mixed with with matching pigments. The rate toinclude all curing, polishing at all lift and levels. (Basic rate ofgranite is Rs.185/- Sq.ft.)	SQM	4430
R2-CS-FL-84	Providing & fixing 20+2mm thick machine cut mirror polish 1st quality Granite window sill (black galaxy or approved shade) including edge polishing, backing coat of 1:4 cement plaster / mortar/cement paste , cleaning etc. complete as per Architects details drawing and design. (Basic rate of granite is Rs.185/-Sq.ft.)	MTR	1590
R2-CS-FL-85	Providing & Fixing Approved colour Homogeneous Flooring 2 mm thick of Single layered Flexible Vinyl flooring (spica of Tusker vinyl floorings) in roll form over provided I.P.S. flooring,fixing over I.P.S./ Kota stone flooring with approved adhesive, all joints to be soldered by P.V.C. rods as per manufacturers specifications,etc. complete as directed including proper levels & cleaning. (Roll width minimum 2.0 Mtr., weight of P.V.C. flooring 90 kg./ 30 Sq.M. The I.P.S./ Kota stone shall be paid separately.	SQM	1323
R2-CS-FL-86	Providing & Fixing Approved colour 1mm thick of Homogeneous wall covering capila of Tusker vinyl) in roll form over wall with approved adhesive all joints to be filled by PVC soldering rods as per manufacturers specifications etc complete & as directed by the Engineering-In-Charge including proper line,level,cleaning (Roll width 2 M X 10XM)	SQM	936
R2-CS-FL-87	Providing & Laying HINDUSTAN paving Tiles on Road of Vindhya Floor tiles having abrasion/wear resistance & wet Transverse strength, size 355mm x 355mm x 25mm thick fixing on cement mortar 1:4 in any colour & pattern as directed by Architect etc complete.	SQM	1416
R2-CS-FL-88	TELEPHONE BLACK GRANITE WASH HAND BASIN COUNTER : Providing and making wash basin counter in single piece of 18 mm to 20 mm thk. Telephone Black granite 600 mm side fixed over 25 to 40 mm thk. Black Cuddappa, stand with type construction,by making zari, in walls upto 75 mm deep & fitting the wall surface by C.M. 1:2 with necessary moulding,profile cutting in granite and cudappa including making hole to receive pillar cock for wash basin etc complete and as per detailed drawing,as directed by the Engineer-In-Charge.	MTR	9056



ITEM NO.	MCGM DESCRIPTION	RATE	UNIT
R2-CS-FL-89	ACCESS FLOORING -Providing & fixing anti-static flooring at server room with pedestal supports & complete.	SQM	3934
R2-CS-FL-90	Providing and laying machine cut and mirror polished approved coloured ITALIAN MARBLE SLAB approved size, 20 mm +/- 2 mm thick of approved quality with approved quality, Italian marble inlays for flooring in required pattern on a bed of 1:4 cement mortar 25- 30 mm average thickness including neat cement float, filling joints with neat coloured cement slurry, curing, polishing and cleaning complete. (Basic rate of ITALIAN marble Rs. 3500/-per Sq.M)	SQM	5743
R2-CS-FL-91	ITALIAN MARBLE CLADDING Providing and fixing machine cut and mirrorpolished approved coloured ITALIAN MARBLE SLAB with inlays of approvedsize,20mm +2mm thk. Of approved quality for required patternon a bed of 1:4 CM 25mm average thickness including neat cement float,filling joints with neat coloured pigment,curing,polishing andcleaning etc.complete. (Basic rate of ITALIAN marble Rs.3500/-per Sq.M)	SQM	5849
R2-CS-FL-92	Providing and laying at site 9mm thick laminated flooring having an inbuilt 1mm soundbloc CS backing - class of use 33/23, wear resistance AC-5, impact resistance - IC 3, (as per EN 13329), top surface having a MLC (Multi Layer Composite) high pressure laminate, top surface treated with (Aluminium Oxide) surface guard (tm) plus on top of high density fibreboard substrate (density 910 kg/m3) specially developed core; of plank size 1994mm x 194mm having smart lock tounge and groove joints to secure long lasting joint. The edge of tounge and groove of planks duly impregnated with paraffin. The approved decor planks to be placed on underly - 0.2mm thick alkali resistant polythylene sheet (Density 935 Kg/m3) to resist any moisture movement from the sub floor and secure floating floor installation. Pergo original conforms to EN 13329, ASTM C 1028, DIN 52185, DIN 54345 EN 717-2 DIN 4102 origi	SQM	2447
R2-CS-FL-93	Providing & fixing 20mm +/- 2mm thick both side mirror polished approved colour Granite Urinal partitions of 600 mm wide & 1550 mm high with round edges moulding and fixed in C.M. 1:2and filling joints in white cement mixed with pigment to match the colour of granite including curing, cleaning etc.complete.(Basic Rate 210/Sft.)	NOS	5344
R2-CS-FL-94	Providing and Fixing Vitrified Tile of size 600 x 600 x of approved make in Dado portion	SQM	1991
R2-CS-FL-95	Supply & Installation of 3.45 mm thick heterogeneous PVC Vinyl flooring of certified by EN(European Standard) 14904, in rolls form of 2m wide and 23m long, total weight 3295 g/m2, Shock Absorption as per EN 14808 - 6%, Friction as per EN 13036-4 - 80 to 110, Vertical deformation as per EN 14809 - 0.4mm, Vertical Ball Behaviour as per EN 12235 - 98%, 100% recyclable, VOC emission after 28days lower than ≤10µg/m3, Phthalate Free. The laid flooring shall comply the fire rating CFL S1 as per EN 13501-The joints should be thermo welded with matching welding rods provided by the manufacturer. After welding the flooring will be seamless.The sub-surface should be absolutely at one level (Zero) for installing vinyl flooring.	SQM	1062



ITEM NO.	MCGM DESCRIPTION	RATE	UNIT
R2-CS-RW-28	POLYCARBONATE SKYLIGHT SYSTEM Supply & Fixing of 16 mm thick MULTICELL (6-Wall, 5-Cell System) daylight polycarbonate extruded translucent 900 mm wide panels with a vertical standing seam at both sides of the panel. The system includes snap-on connector interlocking the panels, end profile, end cap, screws, concealed stainless steel retention clips and with Double wall Aluminium Spacer on both sides. The fully assembled system is free floating. Each component is free to thermally expand or contract at its own rate, eliminating "waves" or deflections & maintaining structural properties of material. Sheets will be installed in Single Length upto 100 mtr. Approved makes- GE,Luxar, Bayer,Mccoys or equivalent brand)	SQM	2875
R2-CS-SS-31	Providing, fabricating & fixing in position S.S. 304 grade pipe railing for staircase consisting of 18 gauge 50 mm dia. S.S. pipe as top rail, 18 gauge 40 mm dia S.S. pipe as verticals, 18 gauge 25 mm dia as secondary rails, including fixing the verticals to the staircase pardi by means of base plate with socket & anchor fasteners, grinding the welded portion smooth, buffing, protecting the railing members by means of wrappers during construction etc. complete as directed by the Engineer in charge.	MTR	3394
R2-CS-SS-32	Providing & fixing S.S. pipe hand rail along the wall in staircase or ramps or passages consisting of 50 mm dia. 18 gauge 304 grade stainless steel pipe. Supported with 25 mm 18 gauge S.S. pipe (304grade) brackets & 5mm thick tapered edge collar base plate fixed to wall with SS screws at approx. 600 mm center to center fixed horizontally or in inclined position at required height including grinding the welded joints, buffing, protecting the railing members by means of wrappers during construction etc. complete as per detailed drawing as directed by the Engineer in charge.	MTR	1675
R2-CS-SS-33	Supplying & Installing Stainless Steel Railing of Goldern Industries Pvt. Ltd. with Top rail using S.S. Pipe of Grade AISI -304 using 51 mm dia pipe with wall thickness of 1.6 mm including fabrication, Cleaning, Buffing & polishing etc. complete. Midrail by using S.S. Pipe of Grade AISI -304 with 2 Nos. S.S. pipes of 16 mm dia & 12 mm thick toughened glass pannel including fabrication, Cleaning, Buffing & polishing etc. complete. & The BALUSTAR is to be of satin finish stainless steel vertical post (Balustar) of AISI 304 grade of 47R4 series, etc. complete. (The height of the railing is to be 1.00 meter)	SQM	6138
R2-CS-WW-32	Providing & fixing in position 35 mm thick 1st quality water proof Single Leaf Flush Door for w.c. with 1.5mm thick laminate on both sides with 12x35mm lipping patti on all edges. Rate is inclusive of s.s. fixtures & fittings, such as handles on both sides, tower bolts, locking arrangement,, door stopper of make (ozone, Hettich, Hafle) 450 x 150mm aluminum ventilation grill powder coated, as per architect's detailed drg. and design complete. Size of door 950mm x 2.35mm. D6.D10.D11	SQM	10533



ITEM NO.	MCGM DESCRIPTION	RATE	UNIT
R2-CS-WW-33	Providing and fixing in position, Double leaf flush door of required size including providing & fixing T.W. frame 60mm x 150mm., 45mm thick solid code hard wood block board shutters with 25mm x 45mm lipping patti, allround the shutter & finished with 1mm thick approved textured laminates on either sides, finishing all exposed surfaces of wood with approved shade french polish, treating all the surfaces of wood in contact with masonry with tar paint (Black Japan), chrominum plated brass fittings & fastenings, S.S. handles etc. complete as per detailed drawing and as directed by the Engineer In charge. D2,D3,GL-D1,GL-D2,GL-D3	SQM	14117
R2-CS-WW-34	Providing and Fixing ARMSTRONG METAL FALSE CEILING with 0.5mm thick STANDARD PERFORATED METAL CLIP in tiles 600 mm x 600 mm to be suspended from slab with 2.5mm G.I. wire as per Manufacturers specification as directed by Engineer in Charge etc complete	SQM	1283
R2-CS-WW-35	Door Type D5Providing & fixing in position fully glazed 50mm thick Door. Vertical styles & top rail made of 100x50mm thick approved quality seasoned T.W.& bottom rail made of 150x50mm thk.approved quality seasoned T.W. finish with 4 mm veneer on both sides with & glass panels of 8mm thick clear float glass of approved make fix with 1st class BTC 25x12 mouldings. Rate is inclusive of s.s.fixtures & fittings, such as handles on both sides, tower bolts, locking arrangement, concealed type door closure, door stopper of make (ozone,Hettich,Hafle), as per architect's detailed drg. and design complete.Door size - 1000x2100. =GL-D9	SQM	13428
R2-CS-WW-36	Providing and fixing in position, Double leaf flush door of required size including providing & fixing T.W. frame 60mm x 150mm., 45mm thick solid code hard wood block board shutters with 25mm x 45mm lipping patti, allround the shutter & finished with 1mm thick approved textured laminates on either sides, finishing all exposed surfaces of wood with approved shade french polish, treating all the surfaces of wood in contact with masonry with tar paint (Black Japan), chrominum plated brass fittings & fastenings, S.S. handles etc. complete as per detailed drawing and as directed by the Engineer In charge. D2,D3,GL-D1,GL-D2,GL-D3	SQM	14117
R2-CS-WW-37	Fire rated Double leaf Door - Laminate Finish: Providing & Fixing of wooden Fire door with Panic Bar of approved make and of required size, 120 minutes fire rating, integrity and insulation in accordance with the criteria of BS 476: Part22: 1987 and Report 212(1)/FR/2003; insulation on door leaf only. Tested at Fire Research Laboratory, Central Building Research Institute, Roorkee with standard heating conditions as specified inIS: 3809-1979 and BS: 476 part 20 & 22, 1987 to achieve the required integrity & insulation (i.e. to restrict the heat radiation, temparature rise on the non fire side to the maximum of 140 degree Centigrade above the ambient temperature on the unexposed surface of the shutter). Red Mirranti Hard wood frame of section 145mm x 70mm with Intumescent strip (Imported) to take care of Hot and cold smoke of size 10mm x 2mm x 2Nos. concealed in the grove of the frame and 55mm thick double leaf shutter made out of perimeter railing of Red Mirranti wood of size 100mm x 29mm and Promina 60.9mm thick. Calcium Silicate Board Fire Retardant compound on each side coated with Intumescent sealant and faced with 4mm thick marine ply	SQM	15556



ITEM NO.	MCGM DESCRIPTION	RATE	UNIT
R2-CS-WW-38	Door Type D5Providing & fixing in position fully glazed 50mm thick Door. Vertical styles & top rail made of 100x50mm thick approved quality seasoned T.W.& bottom rail made of 150x50mm thk.approved quality seasoned T.W. finish with 4 mm veneer on both sides with & glass panels of 8mm thick clear float glass of approved make fix with 1st class BTC 25x12 mouldings. Rate is inclusive of s.s.fixtures & fittings, such as handles on both sides, tower bolts, locking arrangement, concealed type door closure, door stopper of make (ozone,Hettich,Hafle), as per architect's detailed drg. and design complete.Door size - 1000x2100. =GL-D9	SQM	13428
R2-CS-WW-39	Frame Type F2Providing and fixing 1st quality Burma T.W. door frame of size 75 x 150mm with required groove and chamfer including M.S.hold-fast of size and make. Door Type D5-ED as per architect's detailed drg. And design and as instructed by the Engineer-in-charge.	MTR	4711
R2-CS-WW-40	VIEWING GLASS 5MM AT DOORS WITH BEADING	SQM	3425
R2-CS-WW-41	Providing and fixing on site VENEER FINISH WALL PANELING made by using approved quality seasoned T.W. framing of 38 x 25 mm at approximately600 x 450 mm center to center or as per site conditions and covered by12 mm thick marine ply generally conforming to I.S.303 /I.S.710-1980 finished with 3 mm thick group match veneer of approvedquality with groove pattern including all necessary end mouldings, moulding pattern, and melamine polish. Antitermite treatment toplywood and woodwork etc.including all leads & lifts complete as perArchitects detailed drg. & design and as instructed by The Engineer In Charge (Basic Veneer Rate Rs.75/-per sft)	SQM	4882
R2-CS-WW-42	Providing & Fixing well seasoned old burma Teak wood skirting of 25mm thickness & 250mm height in the required position & of the profile shown in the drawings including all moulding,grooves rough grounds,raw plugs, if necessary & finished with approved coloured stained matt water based PU coat of ICA or INCHEM of equivalent Make using approved coloured stainers of the same company.	MTR	2474
R2-CS-WW-43	Providing&fixing TRAP DOOR with T.W. frame work and shutter made from19mm marine plywood and exposed surface finished with 1.5mm laminateand internal surface finished with flat oil paint with s.s. fittings & fixtures of make (ozone, Hettich, Hafle)as per Architectsetailed drg. and design.	SQM	6222
R2-CS-WW-44	Providing &fixing ply board paneling to existing column by using37x25mm thick approved quality seasoned T.W.frame covered with 12mmthick marine ply .Paneling up to 900mm from FFL is finished with 3mm veneer & melamine polish .The edges of coloumn are finished withdecorative 75x25mm thick approved quality T.W. battans. The coloumn surface from 900mm level upto false ceiling should be finished with 12.5 thick Gypsum board with S.S 316 grade band of 16 guage as perArchitects detailed drg. & design and as directed. The coloumn also tohave 100mm wide decorative skirting using 25mm thk.approvedT.W. planks polished with melamine of approved tint (Basic Veneer RateRs.75/-per sft)	SQM	8167



ITEM NO.	MCGM DESCRIPTION	RATE	UNIT
R2-CS-WW-45	Providing & fixing in position single leaf flush door of required size for internal doors of residential units, shutters made of 45mm thick marine grade block board core with 25mm x 45mm T.W. lipping patti, 1mm thick approved decorative laminates finish on both faces of shutter, including providing & fixing T.W. frame of 60mm x 150mm size, coating all the exposed surfaces of wood with 2 coats of flat enamel paint of approved shade & make over one coat of approved synthetic primer, coating all the surfaces of wood in contact with masonry with Tar (Black Japan), preparing the surfaces, providing and fixing brass chrome finished or S.S. fittings and fastenings etc complete as per detailed drawing no. WD-26 & as directed by the Engineer in charge. D5,D7,D12,D8,D9, GL-D5	SQM	17263
R2-CS-WW-46	Providing and fixing glazing panels & doors using 12mm thk toughen clear glass (confirming to ASTM Standards C-1048) supported by channel (embedded in the floor) at the bottom & side edge and wall connecting profile at the top edge, stainless steel articulated countersunk bolts threaded bolts, chemical fasteners, etc., glass panel size as per design and drawing including applying colourless sealant of joint incl. required edge polish, making glazing water tight etc. Destructive node joint test reports to be submitted for establishing the safety factor, including operating hardware, SS patch fittings, fabricated long length satin finish SS 304 handles, patchlock, floor springs etc., complete as directed by the architect for frameless patch doors, single or twin leaf shutters with fixed panel on top. Hardware-Droma BTS 80 Floor Spring.	SQM	11733
R2-CS-WW-47	Fire rated Single leaf Door - Laminate Finish: PnF of Wooden Fire door without Panic Bar of appd make and of required size, 120 minutes fire rating, integrity and insulation in accordance with the criteria of BS 476 ; Part 22 : 1987 and report 212 (1)/FR/2003; Insulation on door leaf only. Tested at Fire Research Lab, CBRI, Roorkee with standard heating conditions as specified in IS : 3809-1979 and BS : 476 part 20 & 22, 1987 to achieve the required integrity & insulation (i.e. to restrict the heat radiation, temp rise on the non fire side to the max of 140 deg Centi above the ambient temp on the unexposed surface of the shutter). Red Mirranti Hard wood frame of section 145mm x 70mm with Intumescent strip (Imported) to take care of Hot and cold smoke of size 10mmx2mmx2Nos. Concealed in the groove of the frame and 55mm thick single leaf shutter made out of perimeter railing of Red Mirranti wood of size 100mmx29mm and promina 60.9mm thick Calcium Silicate Board Fire Retardant compound on each side coated with Intumescent sealant and faced with 4mm thick marine ply with Fire and smoke Intumescent Seal of size 20mmx2mmx1No., mounted in the grooves in the shutter on all sides except bottom with 10mm thick	SQM	20295



ITEM NO.	MCGM DESCRIPTION	RATE	UNIT
R2-CS-WW-48	Fire rated Single leaf Door - Laminate Finish: Providing & Fixing of Wooden Fire door without Panic Bar of approved make and of required size, 120 minutes fire rating, integrity and insulation in accordance with the criteria of BS 476 ; Part 22 : 1987 and report 212 (1)/FR/2003; Insulation on door leaf only. Tested at Fire Research Laboratory, Central Building Research Institute, Roorkee with standard heating conditions as specified in IS : 3809-1979 and BS : 476 part 20 & 22, 1987 to achieve the required integrity & insulation (i.e. to restrict the heat radiation, temperature rise on the non fire side to the maximum of 140 degree Centigrade above the ambient temperature on the unexposed surface of the shutter). Red Mirranti Hard wood frame of section 145mm x 70mm with Intumescent strip (Imported) to take care of Hot and cold smoke of size 10mm x 2mm x 2Nos. Concealed in the groove of the frame and 55mm thick single leaf shutter made out of perimeter railing of Red Mirranti wood of size 100mm x 29mm and promina 60.9mm thick Calcium Silicate Board Fire Retardant compound on each side coated with Intumescent sealant and faced with 4mm thick	SQM	20294
R2-CS-WP-49	Providing & Making Waterproofing Treatment to the Chajja by finishing top surface with 20 mm thick 12 C.M. plaster with addition of approved water proofing compound as per manufacturers specifications and neat cement finish,including drip moulding at edge ,at bottom of chajja & cement vatta above chajja along the junction with wall etc complete. as per FMB item No. 5.22 but for new surfaces & as directed by the Engineer-In-Charge.	SQM	503
R2-CS-PV-12	Design, fabrication & Installation of FRP LOUVERS with 30 mm clear space including aluminium EURO support system for accommodating FRP louvers consist of aluminium angle brackets of 50 x 50 x 5 mm with EPDM gaskets & anchor fastners (HILTY make) etc. Louvers as design including 60 mm x 30 mm section UPVC FINS & . as per Architect/Engineer incharge.	SQM	2689
R2-CS-AW-20	Design, supply, fabrication & erection of approved structural glazing using specially designed Vertical Mullion & Horizontal Transoms of Required size & as per architect's approved Grid work with aluminium rectangular sections to be fixed in masonry at interval of each floor on concrete slab with 80 mm x 100 mm x 5mm thick galvanized M & Langle fixed on wall side with raw bolt size of 10 mm x 90 mm with necessary bolts & washers / nuts for the plumb the line levels. the glass panel's shall be fixed on a specially designed architectural sub- frame using Dow Corning 995 strural sealant & GE Silicon (SSG - 4000) sub frame would be fixed on main frame grid in a manner that no aluminium frame is visible from outside & grooves between the glass panel shall be filled with weather sealant of Dow corning 789 / GE Sil proof to made it air tight, water proof & dust free thus giving it a flush look outside. Glass will be of 6 mm thick Glaverbel reflective type with heat strengthened toughened	SQM	4942



ITEM NO.	MCGM DESCRIPTION	RATE	UNIT
R2-CS-AW-21	Design,Fabrication & Installation of 4 mm thick exterior grade PVDF coated aluminium composite panels of ALUCOBOND having 0.5 mm thick aluminium PVDF coated sheet available in standard colours + 3 mm core material + 0.5 mm aluminium sheet chemically treated (back sheet) bent as per requirement, fitted on anodised aluminium necessary coated rectangular grid work, hardware, fixtures,brackets, anchor, fasteners of S.S. 304 grade etc. complete duly sealed with weathering silicon manufactured by DOW corning / G.E. silicon for circular columns and curved beams etc complete. All section for supporting ACP shall be of size 50 x 50 x 2.5 mm at a distance of 1.2 m Horizontally & Vertically or as per requirement of the design shop drawing has to be submitted by the contractor for the approval of structural Engineer. a) For Terrace b) For Entrance Canopy REBATE FOR SIZES Size :39"-Bruhan mumbai Mahanagarpalika shri Harilal bhagwati sarvsadharan Rugnalay (For 11" = 505.94*11"/25" = Rs. 222.17 per Inch. Size :46"-MCGM SHRI HARILAL BHAGWATI GENERAL HOSPITAL /For 4" = 505.94*4"/25" = Rs. 80.95 per Inch	SQM	4358
R2-CS-HW-21	Providing and fixing concealed door closers as per the company specification and Architect instructions	NOS	5992
R2-CS-HW-22	PROVIDING & FIXING STANDARD MS HOOKS FOR FANS OR ANY OTHER FIXTURES	NOS	238
R2-CS-PS-208-a	Supplying, laying, jointing & testing UPVC Drainage class pipes of Foamcore Astral(SN 8) or equivalent make in solvent cement joint including leveling with cutting the pipe to required length, roughining of pipe at wall joint including socket as directed: 150 mm pipe	MTR	862
R2-CS-PS-208-b	Supplying, laying, jointing & testing UPVC Drainage class pipes of Foamcore Astral(SN 8) or equivalent make in solvent cement joint including leveling with cutting the pipe to required length, roughining of pipe at wall joint including socket as directed: 200 mm pipe	MTR	1271
R2-CS-PS-208-c	Supplying, laying, jointing & testing UPVC Drainage class pipes of Foamcore Astral(SN 8) or equivalent make in solvent cement joint including leveling with cutting the pipe to required length, roughining of pipe at wall joint including socket as directed: 250 mm pipe	MTR	2218
R2-CS-PS-209	Providing fixing testing and commissioning 0.9m x 1.25m x 1.0m deep Grease trap (0.60m liquid height) constructed out of 230 mm brick masonry with PVC Tee connection for inlet outlet & vent, DI MD Manhole cover and frame (Cover size 0.9 x 0.45 m wide 2 nos.) , 40 mm thick Kaddappa baffle wall situated across the chamber. Trap shall be internally smooth plastered with internal & externally Complete with 2 Nos 0.4 M x 0.85 M x 0.1 M high SS 304. perforated treys with handles on both side including all accessories mounting. complete as specified in drawing	NOS	48831
R2-CS-PS-210	Providing & fixing 100 mm SS 304 ACO Kitchen drain chanel including grating on top.	MTR	36395
R2-CS-PS-211	Providing & fixing 150 mm SS 304 ACO Kitchen drain chanel including SS 304 grating on top.	MTR	39398
R2-CS-PS-212	Providing & fixing Potable SS Grease separator Trap of Aco make model FSS50,Part.No.402614 size 600 x 520 x 440 of 2 L/S flow.	NOS	39953
R2-CS-PS-213-a	Supplying & fixing 40 mm thick DI heavy Rain water grating over storm water channel of heavy duty. a) 600 x 300 MM(300wide)	NOS	8460
R2-CS-PS-213-b	Supplying & fixing 40 mm thick DI heavy Rain water grating over storm water channel of heavy duty. b) 600 x 450 MM (450wide)	NOS	9657
R2-CS-PS-213-c	Supplying & fixing 40 mm thick DI heavy Rain water grating over storm water channel of heavy duty. c) 600 x 600 MM (600wide)	NOS	14378



ITEM NO.	MCGM DESCRIPTION	RATE	UNIT
R2-CS-PS-214	Constructing brick masonry valve & meter/RWH chambers in 250mm thick brick masonry in cement mortar 1: 5 using first class bricks constructed over a bed of 150mm thick cement concrete 1:2:4 plastering inside outside and all exposed surface with 20mm thick cement mortar 1.3, finishing inside with a floating coat of neat cement providing & fixing CI frame & cover size, weight mentioned below painting all CI items with 3 coats of approved bitumastic paint etc. complete. Chamber 600 x 600mm clear inside with 600 x 600 CI frame & cover weighting not less than 72kg. Depth of chamber not exceeding 1000mm	NOS	17500
R2-CS-PS-215-a	Supplying & Fixing 3 mm thick lead flashing in single piece of lead sheet all around the rain water outlet mouth on a layer of cold bitmen including heavy duty 5 mm thick C.I. grating, a) 150 x 150 (6" x 6") square or dia outlet for 100 mm (4") pipe.	NOS	495
R2-CS-PS-215-b	Supplying & Fixing 3 mm thick lead flashing in single piece of lead sheet all around the rain water outlet mouth on a layer of cold bitmen including heavy duty 5 mm thick C.I. grating, b) 230 x 230 (9" x 9") square or dia outlet for 150 mm (6") pipe.	NOS	668
R2-CS-PS-215-c	Supplying & Fixing 3 mm thick lead flashing in single piece of lead sheet all around the rain water outlet mouth on a layer of cold bitmen including heavy duty 5 mm thick C.I. grating, c) 300 x 300 (12" x 12") square or dia outlet for 200 mm (8") pipe.	NOS	738
R2-CS-PS-215-d	Supplying & Fixing 3 mm thick lead flashing in single piece of lead sheet all around the rain water outlet mouth on a layer of cold bitmen including heavy duty 5 mm thick C.I. grating, d) 150 x 150 (6" x 6") square or dia outlet for 75 mm (3") pipe.	NOS	495
R2-CS-PS-216-a	Supplying & Fixing CI Hubless pipe as per EN 877 with stainless steel coupling with EPDM rubber gasket jointng as pe DIN- 19543, ASTM C 1277-4 including cutting masonry or walls, etc. wherever necessary for making connections, Supplying & Fixing the pipe to Ceiling, & walls on suitably design bracket including spare socket, scaffolding wherever necessary, painting the exposed faces with suitable anticorrosive paint and 2 coats of oil paint recommended by the Architect / Consultant. 80 mm dia	MTR	1530
R2-CS-PS-216-b	Supplying & Fixing CI Hubless pipe as per EN 877 with stainless steel coupling with EPDM rubber gasket jointng as pe DIN- 19543, ASTM C 1277-4 including cutting masonry or walls, etc. wherever necessary for making connections, Supplying & Fixing the pipe to Ceiling, & walls on suitably design bracket including spare socket, scaffolding wherever necessary, painting the exposed faces with suitable anticorrosive paint and 2 coats of oil paint recommended by the Architect / Consultant. 100 mm dia	MTR	1697
R2-CS-PS-216-c	Supplying & Fixing CI Hubless pipe as per EN 877 with stainless steel coupling with EPDM rubber gasket jointng as pe DIN- 19543, ASTM C 1277-4 including cutting masonry or walls, etc. wherever necessary for making connections, Supplying & Fixing the pipe to Ceiling, & walls on suitably design bracket including spare socket, scaffolding wherever necessary, painting the exposed faces with suitable anticorrosive paint and 2 coats of oil paint recommended by the Architect / Consultant. 150 mm dia	MTR	2506
R2-CS-PS-217-a	Supplying & Fixing & jointing with cast iron fitting such as Bends, Tees, Cross, Wye, etc. of required degree with access door with stainless steel coupling with EPDM rubber gasket jointng as pe DIN- 19543, ASTM C 1277-4. 80 mm dia	NOS	1854



ITEM NO.	MCGM DESCRIPTION	RATE	UNIT
R2-CS-PS-217-b	Supplying & Fixing & jointing with cast iron fitting such as Bends, Tees, Cross, Wye, etc. of required degree with access door with stainless steel coupling with EPDM rubber gasket jointng as pe DIN- 19543, ASTM C 1277-4. 100 mm dia	NOS	2037
R2-CS-PS-217-c	Supplying & Fixing & jointing with cast iron fitting such as Bends, Tees, Cross, Wye, etc. of required degree with access door with stainless steel coupling with EPDM rubber gasket jointng as pe DIN- 19543, ASTM C 1277-4. 150 mm dia	NOS	3406
R2-CS-PS-218-a	Supplying & Fixing screwed cast brass cleanout plug with suitable inset keys & opening, male threaded joint with EPDM rubber gasket jointng as pe DIN- 19543, ASTM C 1277-4. a) 80 mm (3") dia	NOS	1477
R2-CS-PS-218-b	Supplying & Fixing screwed cast brass cleanout plug with suitable inset keys & opening, male threaded joint with EPDM rubber gasket jointng as pe DIN- 19543, ASTM C 1277-4. b) 100 mm (4") dia.	NOS	1843
R2-CS-PS-218-c	Supplying & Fixing screwed cast brass cleanout plug with suitable inset keys & opening, male threaded joint with EPDM rubber gasket jointng as pe DIN- 19543, ASTM C 1277-4. C) 150 mm (6") dia.	NOS	4004
R2-CS-PS-218-d	Supplying & Fixing screwed cast brass cleanout plug with suitable inset keys & opening, male threaded joint with EPDM rubber gasket jointng as pe DIN- 19543, ASTM C 1277-4.d) 200 mm (8") dia.	NOS	4603
R2-CS-PS-219	Providig & Supplying & Fixing 100 mm dia. CI 'P' trap Suspended type floor Drain of standard design. with EPDM rubber gasket jointng as pe DIN- 19543, ASTM C 1277-4.	NOS	2109
R2-CS-PS-220-a	Supplying & Fixing Agricultural PVC 10 kg class pipe as IS 4985-2000 of Approved make with P.V.C. fittings including Chasing of Brick wall & making good the same with 1:3 cement sand plaster using Chiken wire mesh etc. complete a) 50 mm (1 1/2") dia.	MTR	240
R2-CS-PS-220-b	Supplying & Fixing Agricultural PVC 10 kg class pipe as IS 4985-2000 of Approved make with P.V.C. fittings including Chasing of Brick wall & making good the same with 1:3 cement sand plaster using Chiken wire mesh etc. complete b) 40 mm (1 1/4") dia.	MTR	206
R2-CS-PS-221	Providing and fixing cast iron Pan connectors with or without vent holes straight/ bend including providing & jointing with drip seal joints.	NOS	1359
R2-CS-PS-222	75 mm C.I nahani trap with grating with 75 mm C.I. bend with cleaning caps fixed compleate	NOS	2649
R2-CS-PS-223	Providing,fixing and jointing including testing heavy quality MildSteel pipes conforming to IS: 1239 or IS: 3589 7mm thick including cutting, threaded or conforming to IS: 1239 or IS: 3589 7mm thick including cutting, threaded or welded (all type) joints as per detailed specifications and providing suitable flanges wherever requiredcomplete with necessary fittings viz bends, tees, reducers etc.required including fixing the pipes on wall/ ceiling/ beam/ floor with suitable hangers, clamps and painting the pipe of following sizescomplete. Pipes upto 50mm dia threaded joints with holdite, 65mm and above should be welded joint (All types of welded joints). A100 mm dia.	MTR	423
R2-CS-PS-224	Supplying, installing, testing and commissioning of MS Pipes conformingto IS 1239 Pt - I Heavy grade 'C' Class with threaded / welded fittings such as flanges, elbows, tees, reducers etc laid above ground according to the technical specifications and drawings. Rates shall be inclusive of painting, rigid structural supports, anchor fasteners, bolts, nuts (Galvanised), clamps, "U" bolts, etc. complete. - 150 mm nominal dia	MTR	2540



ITEM NO.	MCGM DESCRIPTION	RATE	UNIT
R2-CS-PS-225-a	Providing, fixing and testing heavy quality gun metal or brass ball valve with screwed ends 20kgm class on GI or copper pipe lines (Leader/ZOLOTO make) 15 mm (1/2") dia.	NOS	545
R2-CS-PS-225-b	Providing, fixing and testing heavy quality gun metal or brass ball valve with screwed ends 20kgm class on GI or copper pipe lines (Leader/ZOLOTO make) 20 mm (3/4") dia.	NOS	678
R2-CS-PS-225-c	Providing, fixing and testing heavy quality gun metal or brass ball valve with screwed ends 20kgm class on GI or copper pipe lines (Leader/ZOLOTO make) 25 mm (1") dia.	NOS	944
R2-CS-PS-225-d	Providing, fixing and testing heavy quality gun metal or brass ball valve with screwed ends 20kgm class on GI or copper pipe lines (Leader/ZOLOTO make) 32 mm (1 1/4") dia.	NOS	1499
R2-CS-PS-225-e	Providing, fixing and testing heavy quality gun metal or brass ball valve with screwed ends 20kgm class on GI or copper pipe lines (Leader/ZOLOTO make) 40 mm (1 1/2") dia.	NOS	2108
R2-CS-PS-225-f	Providing, fixing and testing heavy quality gun metal or brass ball valve with screwed ends 20kgm class on GI or copper pipe lines (Leader/ZOLOTO make) 50 mm (2") dia.	NOS	2906
R2-CS-PS-225-f	Providing, fixing and testing heavy quality gun metal or brass ball valve with screwed ends 20kgm class on GI or copper pipe lines (Leader/ZOLOTO make) 50 mm (2') dia.	NOS	2906
R2-CS-PS-225-e	Providing, fixing and testing heavy quality gun metal or brass ball valve with screwed ends 20kgm class on GI or copper pipe lines (Leader/ZOLOTO make) 40 mm (1 1/2") dia.	NOS	2108
R2-CS-PS-226-a	Supplying & fixing 600 mm (24") to 750 mm (2'-6") long screwed G.I. C class pipe with 3 mm thick M.S. bar flange (plate) welded on it: Flanges should be of Table E of approved make. (Puddle Flange) a) 65 mm(2 1/2")dia pipe 5 mm thick with 150X 150(6" X 6") plate, Both ends Flanged of	NOS	2785
R2-CS-PS-226-b	Supplying & fixing 600 mm (24") to 750 mm (2'-6") long screwed G.I. C class pipe with 3 mm thick M.S. bar flange (plate) welded on it: Flanges should be of Table E of approved make. (Puddle Flange) b) 75 mm(3")dia pipe 5 mm thick with 200 X 200 (8" X 8") plate, Both ends Flanged of	NOS	3035
R2-CS-PS-226-c	Supplying & fixing 600 mm (24") to 750 mm (2'-6") long screwed G.I. C class pipe with 3 mm thick M.S. bar flange (plate) welded on it: Flanges should be of Table E of approved make. (Puddle Flange) c) 100 mm (4")dia pipe 5 mm thick with 250 X 250 (10" X 10") plate, Both ends Flanged	NOS	3764
R2-CS-PS-226-d	Supplying & fixing 600 mm (24") to 750 mm (2'-6") long screwed G.I. C class pipe with 3 mm thick M.S. bar flange (plate) welded on it: Flanges should be of Table E of approved make. (Puddle Flange) d) 150 mm(6")dia pipe 7 mm thick with 300 X 300 (12" X 12") plate, Both ends Flanged	NOS	5803
R2-CS-PS-226-e	Supplying & fixing 600 mm (24") to 750 mm (2'-6") long screwed G.I. C class pipe with 3 mm thick M.S. bar flange (plate) welded on it: Flanges should be of Table E of approved make. (Puddle Flange) e) 200 mm (8") dia pipe 7 mm thick with 350 X 350 (14" X 14") plate, Both ends Flanged	NOS	8047
R2-CS-PS-227-a	Providing and fixing brass screwed/flanged type mosquito proof grating for under ground suction tank/Over Head tank, over flow and vent of the following diameters. 50mm dia a) 50 mm (2") dia.	NOS	778



ITEM NO.	MCGM DESCRIPTION	RATE	UNIT
R2-CS-PS-228	Providing & fixing C.I. Manhole covers with frames / rings for R.C.C., underground water storage tanks/Over Head tank, sizes of covers. (600mm dia.) NOTE:-should be provided with locking arrangement	NOS	4604
R2-CS-PS-229	Supporting and installing cast iron dual plate wafer type PN 16 doubleflanged type non-return valve including nuts bolts 1.6 mm thickcompressed asbestos gasket including matching flanges complete.100 mm dia	NOS	7545
R2-CS-PS-230	Supporting and installing cast iron dual plate wafer type PN 16 doubleflanged type non-return valve including nuts bolts 1.6 mm thickcompressed asbestos gasket including matching flanges complete. 65 mm dia	NOS	5218
R2-CS-PS-231	Providing & fixing of CI wafer type butterfly valve (suitable for testpressure of 15 kg / sqm) with flanges, nut bolts, gaskets and necessarypad locking arrangement complete required. - 200 mm dia	NOS	16420
R2-CS-PS-232	Supplying, Installing, testing and commissioning CI butterfly valves (PN 16) slim seal standard lever operated type confirming to IS 13039with required flanges, nuts, bolts etc. complete.- 150 mm dia.	NOS	9873
R2-CS-PS-233	Supplying and installing cast iron Butterfly valves PN 16 completewith both sides including flanges on receiving pipes with nuts, bolts,1.5mm thick compressed asbestos gasket insertion as required.100 mm dia.	NOS	5576
R2-CS-PS-234	Supplying and installing cast iron Butterfly valves PN 16 completewith both sides including flanges on receiving pipes with nuts, bolts,1.5mm thick compressed asbestos gasket insertion as required.80 mm dia.	NOS	4246
R2-CS-PS-235	Supplying and installing cast iron Butterfly valves PN 16 completewith both sides including flanges on receiving pipes with nuts, bolts,1.5mm thick compressed asbestos gasket insertion as required.65 mm dia.	NOS	4113
R2-CS-PS-236	Insulation of hot water pipe lines either GI or PPR or cPVC with 6mm thick thermaflex polyEthyne nitrile rubber with primer, adhesive tape at the joint & applying a cover of polyshield on the surface for mech protection as well in complete. 15mm pipes	MTR	110
R2-CS-PS-236-a	Insulation of hot water pipe lines either GI or PPR or cPVC with 6mm thick thermaflex polyEthyne nitrile rubber with primer, adhesive tape at the joint & applying a cover of polyshield on the surface for mech protection as well in complete. 20 mm pipes	MTR	123
R2-CS-PS-236-b	Insulation of hot water pipe lines either GI or PPR or cPVC with 6mm thick thermaflex polyEthyne nitrile rubber with primer, adhesive tape at the joint & applying a cover of polyshield on the surface for mech protection as well in complete. 25mm pipes	MTR	143
R2-CS-PS-237-a	Providing & fixing 13 mm thick Thermaflex Polly Ethylene Nitrite rubber (Density 30 kg/sq. cm) wrapping closely overhot water pipes chased in wall & wrapped PVC tape over Nitrile rubber. a) 15 mm (1/2") dia.	MTR	104
R2-CS-PS-237-b	Providing & fixing 13 mm thick Thermaflex Polly Ethylene Nitrite rubber (Density 30 kg/sq. cm) wrapping closely overhot water pipes chased in wall & wrapped PVC tape over Nitrile rubber. b) 20 mm (3/4") dia.	MTR	123
R2-CS-PS-237-c	Providing & fixing 13 mm thick Thermaflex Polly Ethylene Nitrite rubber (Density 30 kg/sq. cm) wrapping closely overhot water pipes chased in wall & wrapped PVC tape over Nitrile rubber. c) 25 mm (1") dia.	MTR	143



ITEM NO.	MCGM DESCRIPTION	RATE	UNIT
R2-CS-PS-237-d	Providing & fixing 13 mm thick Thermaflex Polly Ethylene Nitrite rubber (Density 30 kg/sq. cm) wrapping closely overhot water pipes chased in wall & wrapped PVC tape over Nitrile rubber. d) 32 mm (1 1/4") dia.	MTR	163
R2-CS-PS-237-e	Providing & fixing 13 mm thick Thermaflex Polly Ethylene Nitrite rubber (Density 30 kg/sq. cm) wrapping closely overhot water pipes chased in wall & wrapped PVC tape over Nitrile rubber. e) 40 mm (1 1/2") dia.	MTR	204
R2-CS-PS-237-f	Providing & fixing 13 mm thick Thermaflex Polly Ethylene Nitrite rubber (Density 30 kg/sq. cm) wrapping closely overhot water pipes chased in wall & wrapped PVC tape over Nitrile rubber. f) 50 mm (2") dia.	MTR	243
R2-CS-PS-238-a	Providing & fixing 20 mm thick Thermaflex Polly Ethylene Nitrite rubber (Density 30 kg/sq. cm) wrapping closely overhot water pipes chased in wall & wrapped PVC tape over Nitrile rubber. a) 100 mm (4") dia.	MTR	492
R2-CS-PS-238-b	Providing & fixing 20 mm thick Thermaflex Polly Ethylene Nitrite rubber (Density 30 kg/sq. cm) wrapping closely overhot water pipes chased in wall & wrapped PVC tape over Nitrile rubber. b) 80 mm (3") dia.	MTR	450
R2-CS-PS-238-c	Providing & fixing 20 mm thick Thermaflex Polly Ethylene Nitrite rubber (Density 30 kg/sq. cm) wrapping closely overhot water pipes chased in wall & wrapped PVC tape over Nitrile rubber. c) 65 mm (2 1/2") dia.	MTR	404
R2-CS-PS-239-a	Supplying & Fixing & Testing Pressure reducing Valve of Diaphragm type & inbuilt SS strainer type with necessary connectors. a) 75 mm (3") dia.	NOS	25628
R2-CS-PS-239-b	Supplying & Fixing & Testing Pressure reducing Valve of Diaphragm type & inbuilt SS strainer type with necessary connectors. b) 65 mm (2 1/2") dia.	NOS	17034
R2-CS-PS-239-c	Supplying & Fixing & Testing Pressure reducing Valve of Diaphragm type & inbuilt SS strainer type with necessary connectors. c) 50 mm (2") dia.	NOS	10221
R2-CS-PS-240	PROVIDING & FIXING 40MM PRESSURE REDUCING VALVE ON DOWN TAKE WATER SUPPLY PIPES (Diaphragm type with inbuilt ss strainer)	NOS	6548
R2-CS-PS-241	PROVIDING & FIXING 32MM PRESSURE REDUCING VALVE ON DOWN TAKE WATER SUPPLY (Diaphragm type with inbuilt ss strainer)	NOS	5243
R2-CS-PS-242	PROVIDING & FIXING 25MM PRESSURE REDUCING VALVE ON DOWN TAKE WATER SUPPLY	NOS	4005
R2-CS-PS-243	P/F white wall hung WC hindware with necessary cantilever/chair bracket with nut bolt etc. complete directed by EIC..(White color Wall Hung EWC Model No. 20024 OR consider equivalent make	NOS	10088
R2-CS-PS-244	Providing and fixing JAQUAR MAKE metropole flush valve Dual Flow Concealed type with control cock operation plate 40 mm size etc. Complete	NOS	7929
R2-CS-PS-245	Providing and fixing in position Hindware make Indian style WC pan including making inlet/outlet connections and consists of the following i) White colour Orissa pan 580 x 440 mm size open rim of approved make, ii) Porcelain P or S trap with vent pipe, iii) 100 dia C.I. connector pipe from P or S trap to the junction of soil stack on external face of building.etc. complete.(White color Orissa WC Model No. 20004). OR consider equivalent make.	NOS	3518



ITEM NO.	MCGM DESCRIPTION	RATE	UNIT
R2-CS-PS-246	Supplying & Fixing Hindware make flat back Urinal rear inlet with urinal flush valve of Jaquar make including CP SS dome shaped grating C.P. west coupling, CP spreader, CP 'P' trap.(Urinal White color Model no.60002, Jaquar Make Push Type Valve Cat.No.PRS-077 OR consider equivalent make)	NOS	7267
R2-CS-PS-247	Providing and fixing JAQUAR MAKE, PRESSMATIC Taps Model No. 031 Pillarcock Auto closing system etc complete	NOS	2834
R2-CS-PS-248	White Vitreous China of 'Hindustan & Parryware' make or equivalent under counter type Oval wash basin of size 550 x 480mm with CI brackets suitable for mounting below granite counter including waste fitting with CP brass bottle trap, angle valve with CP connection etc as specified. Oval Wash Basin Model No.10051 OR consider equivalent make.)	NOS	8192
R2-CS-PS-249	Providing and fixing heavy ISI marked single lever concealed diverter for bath & shower system Rain shower & its accessories. (Mixer Cat. No. CON- 421 Jaquar make OR consider equivalent make)	NOS	11203
R2-CS-PS-250	P/F Jaquar make shower, necessary accessories shower arm with flange continental series sr. no. 483	NOS	1437
R2-CS-PS-251	P/f Hindustan make white glazed earthen ware,wash basin constallation model (10032) of 55cmx43cm OR consider equivalent make	NOS	3939
R2-CS-PS-252	Providing and fixing stainless steel sink 600 mm x 450 mm and 200mmdeep including 32mm dia. galvanised iron waste pipe, 32mm dia. C.P.brass waste coupling, one C.P. brass screw down tap, caste ironbrackets, rubber plugs with chain etc. complete.	NOS	8215
R2-CS-PS-253	Providing and fixing JAQUAR MAKE, ORNAMIX Model No. 10011 Single Lever Basin Mixer without POPUP waste system with 450mm long copper pipes &Brass nuts etc complete	NOS	5242
R2-CS-PS-254	Providing and fixing JAQUAR MAKE,HOTELIER series Model No. 1551 Toilet Paper Holder Recessed type (S.Steel) including cutting and making goodthe wall wherever required etc complete	NOS	1842
R2-CS-PS-255	Supply of Sink Mixer - Jaquar note:- J shape spout with wall flange of heavy duty Jaquqr make (Wall mounted). (Sink cock with J shape spout Cat. No. FLR-5309N OR consider equivalent make)	NOS	4737
R2-CS-PS-256	Providing and fixing JAQUAR MAKE,CONTINENTAL Model No. 1121 Towel ring including cutting and making good the wall wherever required etccomplete	NOS	1281
R2-CS-PS-257	Providing and fixing GLITTERS MAKE, SLOPE series Robe hook etc complete	NOS	788
R2-CS-PS-258	Providing and fixing GLITTERS MAKE, SLOPE sereis Towel Rack etccomplete	NOS	1448
R2-CS-PS-259	Providing & Fixing 100mm diameter Nahani trap Jali in steel finish with necessary fixing required to make the item well functional.	NOS	356
R2-CS-PS-260	Providing & fixing in position `Jacquar Continental' make CP Jet Spray with flexible CP supply pipe, and all other accessories, complete	NOS	2113
R2-CS-PS-261	Providing and fixing ISI marked make CP brass liquid soap dispensers with CP brass bracket capacity 250 ml.	NOS	2645



ITEM NO.	MCGM DESCRIPTION	RATE	UNIT
R2-CS-PS-262	Providing & fixing chromium plated 32mm Jaguar make Series allied modelno. ALD-769 B Bottle trap (with internal partition) for Wash Basins including Waste Coupling fixed in required position with 250mm long wall connection pipes and wall flange with all necessary fittings and fixtures, etc. complete and as directed by The Engineer incharge.	NOS	1913
R2-CS-PS-263	WASTE COUPLING :JAGUAR : NO. 705 (FULL THREAD)	NOS	655
R2-CS-PS-264	Providing & fixing 2-way Bib cock JAGUAR MAKE, ORNAMIX Model No. 10041etc. complete.	NOS	2578
R2-CS-PS-265	Providing and fixing brass CP angle cock for mini geyser of Metro,seiko or other equivalent approved make.	NOS	721
R2-CS-PS-266	Providing and fixing online filter of 200 mm dia three layer PPR pipe PN.10(SDR11) class including filter media of graded sand of size 4.75 mm to 12.00mm with synthetic/noncorrosive metallic mesh with necessary bracketing with 160 mm dia pvc ball valve,2 nos of 100 dia pvc ball valves for backwash with 2 nos of plastic 'O' joint to facilitate separation of filter assembly for maintenance with all necessary fitting such as reducer,tees,fitting necessary fasteners etc. complete directed.	NOS	1
R2-CS-PS-267	Providing & fixing in any position 160mm dia PVC ball valve with all required fitting & Labour for rain water downtake pipe for the purpose of first flush. (For 1st flush Valve)	NOS	13147
R2-CS-PS-268	Supplying and installing cast iron Butterfly valves PN 16 complete with both sides including flanges on receiving pipes with nuts, bolts, 1.5mm thick compressed asbestos gasket insertion as required. 100 mm dia.	NOS	4911
R2-CS-PS-269-a	1277-4 including cutting masonry or walls, etc. wherever necessary for making connections, Supplying & Fixing the pipe to Ceiling, including spare socket, scaffolding wherever necessary, painting the exposed faces with suitable anticorrosive paint and 2 coats of oil paint recommended by the Architect / Consultant. (Ground Flr Header) 150 mm dia	MTR	2506
R2-CS-PS-269-b	1277-4 including cutting masonry or walls, etc. wherever necessary for making connections, Supplying & Fixing the pipe to Ceiling, including spare socket, scaffolding wherever necessary, painting the exposed faces with suitable anticorrosive paint and 2 coats of oil paint recommended by the Architect / Consultant. (Ground Flr Header) 200 mm dia	MTR	3116
R2-CS-PS-270-a	Supplying & Fixing & jointing with cast iron fitting such as Bends, Tees, Cross, Wye, etc. of required degree with access door with stain less steel coupling with EPDM rubber gasket jointing as per DIN-19543,ASTM C 1277-4. 150 mm dia	NOS	3265
R2-CS-PS-270-b	Supplying & Fixing & jointing with cast iron fitting such as Bends, Tees, Cross, Wye, etc. of required degree with access door with stain less steel coupling with EPDM rubber gasket jointing as per DIN-19543,ASTM C 1277-4. 200 mm dia	NOS	3770



ITEM NO.	MCGM DESCRIPTION	RATE	UNIT
R2-CS-PS-271	Providing and fixing online filter of 200 mm dia three layer PPR pipe PN.10(SDR11) class including filter media of graded sand of size 4.75 mm to 12.00mm with synthetic/noncorrosive metallic mesh with necessary bracketing with 160 mm dia pvc ball valve, 2 nos of 100 dia pvc ball valves for backwash with 2 nos of plastic 'O' joint to facilitate separation of filter assembly for maintenance with all necessary fitting such as reducer, tees, fitting necessary fasteners etc. complete directed. Collection Tank (6 x 6 x 4 m) (Included in civil tender)	NOS	338323
R2-CS-PS-272	Providing & fixing in any position 160mm dia PVC ball valve with all required fitting & Labour for rain water downtake pipe for the purpose of first flush. (For 1st flush Valve)	NOS	3632
R2-CS-PS-273	Providing & fixing of CI wafer type butterfly valve (suitable for test pressure of 15 kg / sqm) with flanges, nut bolts, gaskets and necessary pad locking arrangement complete required. - 200 mm dia	NOS	16420
R2-CS-PS-274	Providing & fixing C.I. Manhole covers with frames / rings for R.C.C., underground water storage tanks, sizes of covers. (600mm dia.) NOTE:- should be provided with locking arrangement	NOS	4131
R2-CS-PS-225-a	Providing, fixing and testing heavy quality gun metal or brass ball valve with screwed ends 20kgm class on GI or copper pipe lines (Leader/ZOLOTO make) 15 mm (1/2") dia.	NOS	545
R2-CS-PS-225-b	Providing, fixing and testing heavy quality gun metal or brass ball valve with screwed ends 20kgm class on GI or copper pipe lines (Leader/ZOLOTO make) 20 mm (3/4") dia.	NOS	678
R2-CS-PS-225-c	Providing, fixing and testing heavy quality gun metal or brass ball valve with screwed ends 20kgm class on GI or copper pipe lines (Leader/ZOLOTO make) 25 mm (1") dia.	NOS	944
R2-CS-PS-225-d	Providing, fixing and testing heavy quality gun metal or brass ball valve with screwed ends 20kgm class on GI or copper pipe lines (Leader/ZOLOTO make) 32 mm (1 1/4") dia.	NOS	1499
R2-CS-PS-225-e	Providing, fixing and testing heavy quality gun metal or brass ball valve with screwed ends 20kgm class on GI or copper pipe lines (Leader/ZOLOTO make) 40 mm (1 1/2") dia.	NOS	2108
R2-CS-PS-225-f	Providing, fixing and testing heavy quality gun metal or brass ball valve with screwed ends 20kgm class on GI or copper pipe lines (Leader/ZOLOTO make) 50 mm (2") dia.	NOS	2906
R2-CS-PS-281-a	Providing and fixing ball Cock (brass) of approved quality, High pressure, with plastic floats complete 50 mm (2") dia.	NOS	6241
R2-CS-PS-281-b	Providing and fixing ball Cock (brass) of approved quality, High pressure, with plastic floats complete 40 mm (1 1/2") dia	NOS	4936
R2-CS-PS-282	Providing and fixing single acting air release valve with Screwed inlet 25mm dia	NOS	1315
R2-CS-PS-283	Supporting and installing cast iron dual plate wafer type PN 16 double flanged type non-return valve including nuts bolts 1.6 mm thick compressed asbestos gasket including matching flanges complete. 100 mm dia	NOS	7545
R2-CS-PS-284	Supporting and installing cast iron dual plate wafer type PN 16 double flanged type non-return valve including nuts bolts 1.6 mm thick compressed asbestos gasket including matching flanges complete. 65 mm dia	NOS	1



ITEM NO.	MCGM DESCRIPTION	RATE	UNIT
R2-CS-PS-285	Providing & fixing of CI wafer type butterfly valve (suitable for testpressure of 15 kg / sqm) with flanges, nut bolts, gaskets and necessary pad locking arrangement complete required. - 200 mm dia	NOS	16420
R2-CS-PS-286	Supplying, Installing, testing and commissioning CI butterfly valves (PN 16) slim seal standard lever operated type confirming to IS 13039with required flanges, nuts, bolts etc. complete.- 150 mm dia.	NOS	9873
R2-CS-PS-287	Supplying and installing cast iron Butterfly valves PN 16 completewith both sides including flanges on receiving pipes with nuts, bolts, 1.5mm thick compressed asbestos gasket insertion as required. 100 mm dia.	NOS	5576
R2-CS-PS-288	Supplying and installing cast iron Butterfly valves PN 16 completewith both sides including flanges on receiving pipes with nuts, bolts, 1.5mm thick compressed asbestos gasket insertion as required. 80 mm dia.	NOS	4246
R2-CS-PS-289	Supplying and installing cast iron Butterfly valves PN 16 completewith both sides including flanges on receiving pipes with nuts, bolts, 1.5mm thick compressed asbestos gasket insertion as required. 65 mm dia.	NOS	4113
R2-CS-PS-290	PROVIDING & FIXING 40MM PRESSURE REDUCING VALVE ON DOWN TAKE WATER SUPPLY PIPES (Diaphragm type with inbuilt ss strainer)	NOS	6548
R2-CS-PS-291	PROVIDING & FIXING 32MM PRESSURE REDUCING VALVE ON DOWN TAKE WATER SUPPLY (Diaphragm type with inbuilt ss strainer)	NOS	5243
R2-CS-PS-292	PROVIDING & FIXING 25MM PRESSURE REDUCING VALVE ON DOWN TAKE WATER SUPPLY	NOS	4005
R2-CS-PS-293	Providing and fixing JAQUAR MAKE metropole flush valve Dual Flow Concealed type with control cock operation plate 40 mm size etc. Complete	NOS	7929
R2-CS-PS-294	Providing and fixing JAQUAR MAKE, PRESSMATIC Taps Model No. 031 Pillarcock Auto closing system etc complete	NOS	2834
R2-CS-PS-295	White Vitreous China of 'Hindustan & Parryware' make or equivalent under counter type Oval wash basin of size 550 x 480mm with CI brackets suitable for mounting below granite counter including waste fitting with CP brass bottle trap, angle valve with CP connection etc as specified. Oval Wash Basin Model No. 10051 OR consider equivalent make.)	NOS	8192
R2-CS-PS-296	Providing and fixing heavy ISI marked single lever concealed diverter for bath & shower system Rain shower & its accessories. (Mixer Cat. No. CON- 421 Jaquar make OR consider equivalent make)	NOS	11203
R2-CS-PS-297	P/F Jaquar make shower, necessary accessories shower arm with flange continental series sr. no. 483	NOS	1437
R2-CS-PS-298	Providing and fixing JAQUAR MAKE, ORNAMIX Model No. 10011 Single Lever Basin Mixer without POPUP waste system with 450mm long copper pipes & Brass nuts etc complete	NOS	5242
R2-CS-PS-299	Supply of Sink Mixer - Jaquar note:- J shape spout with wall flange of heavy duty Jaquar make (Wall mounted). (Sink cock with J shape spout Cat. No. FLR-5309N OR consider equivalent make)	NOS	4847
R2-CS-PS-300	Providing & fixing in position 'Jaquar Continental' make CP Jet Spray with flexible CP supply pipe, and all other accessories, complete	NOS	2113



ITEM NO.	MCGM DESCRIPTION	RATE	UNIT
R2-CS-PS-301	Providing & fixing chromium plated 32mm Jaguar make Series allied modelno. ALD-769 B Bottle trap (with internal partition) for Wash Basins including Waste Coupling fixed in required position with 250mm long wall connection pipes and wall flange with all necessary fittings and fixtures, etc. complete and as directed by The Engineer incharge.	NOS	1913
R2-CS-PS-302	Providing & fixing 2-way Bib cock JAQUAR MAKE, ORNAMIX Model No. 10041etc. complete.	NOS	2578
R2-CS-PS-303	Providing and fixing brass CP angle cock for mini geyser of Metro, seiko or other equivalent approved make.	NOS	721
R2-CS-RM-123	P/F 1.50mm thick SS 304 kick plates to all surface in approved design with ss screws /araldite with buffing etc. complete	SQM	7034
R2-CS-RM-124	Providing & fixing FULL HEIGHT BOTH SIDE GYPSUM BOARD PARTITION at required location having height more than 2.8 meter & minimum 98 mm thick made by using 50 x 50 mm (finished size) approved quality seasoned TW section framing at 600 mm center to center, covered with 12 mm marine ply generally confirming to I.S.303 / I.S.710-1980 on both sides. The partitions shall be finished with 12.5 mm thk Gypsum Board of approved make with or without grooves as per Architect's drawing . Antitermite treatment to plywood and woodwork, door frame including all leads & lifts etc complete as per Architect's Drawing and instructions of Engineer In Charge.	SQM	6199
R2-CS-RM-125	Providing & fixing FULL HEIGHT BOTH SIDE LAMINATED PARTITION at required location having height more than 2.8 meter & minimum 77 mm thick made by using 50 x 50 mm (finished size) approved quality seasoned TW section framing at 600 mm center to center, covered with 12 mm marine ply generally confirming to I.S.303 / I.S.710-1980 on both sides. The partitions shall be finished with 1.5 mm thk. approved quality laminate matt/suede/fine line finished lamination pattern with grooves on both sides with necessary lipping (BTC) moulding. Antitermite treatment to plywood and woodwork, door frame including all leads & lifts etc complete as per Architect's Drawing and instructions of Engineer In Charge. (Basic Laminate Rate Rs.30/- per sft.)	SQM	6732
R2-CS-RM-126	Providing & fixing FULL HEIGHT ONE SIDE LAMINATED ONE SIDE GYPSUM BOARD PARTITION at required location having height more than 2.8 meter & minimum 87 mm thick made by using 50 x 50 mm (finished size) approved quality seasoned TW section framing at 600 mm center to center, covered with 12 mm marine ply generally confirming to I.S.303 / I.S.710-1980 on both sides. The partitions shall be finished with 1.5 mm thk. approved quality laminate matt/suede/fine line finished lamination pattern with grooves on one side & 12.5 mm thk Gypsum Board of approved make with or without grooves as per Architect's drawing & with necessary lipping (BTC) moulding. Antitermite treatment to plywood and woodwork, door frame including all leads & lifts etc complete as per Architect's Drawing and instructions of Engineer In Charge. (Basic Laminate Rate Rs.30/- per sft.)	SQM	6201



ITEM NO.	MCGM DESCRIPTION	RATE	UNIT
R2-CS-RM-127	Providing & fixing FULL HEIGHT FULLY GLAZED PARTITION at required location having height approx. 2.80 meter by using 10 mm thick toughened float glass fixed in 50 mm x 100 mm approved quality seasoned T.W. section at top & bottom rail with necessary lipping (BTC) moulding & fixtures etc. complete. Antitermite treatment to woodwork, door frame & melamine polish to all woodwork including all leads & lifts etc complete as per architects Drawing and instructions of Engineer In Charge.	SQM	5447
R2-CS-RM-128	Providing & Fixing corner guard for columns at parking area size W100 x H800 x 8mm colour: Black with yellow or White Reflective Stickers Body Material: Modified Thermoplastics (Polymer Rubberized) Fixing: Fixed on the wall & corner of columns with six 2" Screws.	NOS	410
R2-CS-RM-129	Making holes in 110 mm to 150 mm brick/concrete/rubble walls for drainage pipes, fittings, etc. and making good the same in cement mortar 1:3 or cement concrete 1:2:4 & finishing on both sides with cement plaster and 3 coats of white or colour wash as directed.	SQM	163
R2-CS-RM-130	Providing & fixing stainless steel 20 mm dia, 600 mm long grab bar for physically handicapped toilet etc complete as directed.	NOS	1161
R2-CS-RM-131	Providing & fixing 1 mm thick laminate to flush doors instead of synthetic enamel painting including all material and labour.	SQM	807
R2-CS-RM-132	Providing and fixing Speed Breakers of Size 350 W x 500 L x 50 H mm yellow black color as shown in the drawing with necessary fittings & fixtures as directed by EIC.	MTR	2270
R2-CS-RM-133	Providing and installing Nylon net for protection from Birds entry in Entrance Lobby.	SQM	781
R2-CS-RM-134	Providing and fixing brush SS vertical corner protection guard along the convex corner edges of the columns, walls, partitions as directed, of the section of size 50mm x 50mm, heavy gauge thickness, upto 1320 mm length with SS countersunk screws including making the wall surface good etc. complete.	MTR	1081
R2-CS-RM-135	CUBICAL PARTITION TRACK SYSTEM WITH CURTAINS	NOS	11152
R2-CS-RM-136	Providing and fixing Brass Mosquito proof jali including required jointing material etc complete. (50 mm dia. Nominal size)	SQM	1263
R2-CS-RM-137	Providing & Fixing frosted film manufactured by 3 M approved equivalent on glass partition wherever required as per the instruction of Architect.	SQM	1478
R2-CS-RM-138	HAND RAIL CRASH GUARD 140MM X 30MM THK	MTR	2001
R2-CS-RM-139	CORNER GUARD 45MM X 45MM : 4FT PCS	NOS	670
R2-CS-RM-140	Providing & Fixing in position signage board in aluminium extruded brown anodized section or as approved with letters in vinyl on one or both side covered with acrylic sheet as per approved sample by architect with required fitting, fixtures etc. including VAT, Excise duty, Octroi, service tax and other tax, duties charges levies loading / unloading transportation, installing etc all complete. Bed Number Size : 4" x 5"	"2	25
R2-CS-RM-141	matter / Graphics with polycarbonate sheet on top for protection at suitable locations including necessary fittings and fasteners etc complete and as directed. Registration Counter No : Size : 7.5" x 12"	"2	25
R2-CS-RM-142-a	Providing & Fixing signage made of 15 mm thick solid white acrylic laser cut out letters for height up to 25" etc complete.	"	425



ITEM NO.	MCGM DESCRIPTION	RATE	UNIT
R2-CS-RM-142-b	Size :39"-Bruhanmumbai Mahanagarpalika shri Harilal bhagwati sarvsadharan Rugnalay - 34 Nos	"	530
R2-CS-RM-143-a	Providing & Fixing solid white acrylic laser cut out MCGM Logo etc complete. Size : 60" x55"	NOS	30
R2-CS-RM-143-b	Providing & Fixing solid white acrylic laser cut out MCGM Logo etc complete. Size : 36" x 33"	NOS	30
R2-CS-DD-86-a	REBATE FOR SCRAP MATERIAL DOOR SHUTTERS	EA	600
R2-CS-DD-86-b	REBATE FOR SCRAP MATERIAL WINDOW AND VENTILATORS SHUTTERS	EA	120
R2-CS-DD-86-c	REBATE FOR SCRAP MATERIAL M S GRILL, MESH	KG	18
R2-CS-DD-86-d	REBATE OVER DISMATLING EXISTING ALUMINIUM SLIDING/ OPENABLE DOOR AND WINDOW / VENTILATION	SQM	120
R2-CS-DD-86-e	REBATE FOR SCRAP MATERIAL TEAK WOOD MEMBERS OF DOOR / WINDOW FRAMES	SQM	65
R2-CS-DD-86-f	Rebate for Scrap Material Reinforcement Steel	KG	20



Sr.No.	Material Code	Common Items	Unit	Final Rate 2017-18		
				Minimum Rate	GST %	Rate after GST
1	LB-01	Asphalt Sprayer Skilled	Day	540	18%	637
2	LB-02	Welder	Day	540	18%	637
3	LB-03	Assistant Plumber Skilled	Day	540	18%	637
4	LB-04	Barbender Skilled	Day	540	18%	637
5	LB-05	Bhisti (Water Man)	Day	491	18%	579
6	LB-06	Blacksmith 1st class	Day	587	18%	693
7	LB-07	Blacksmith 2nd class	Day	540	18%	637
8	LB-08	Breaker/Chisler/Hole driller/Jack Hammer operator Semiskilled	Day	491	18%	579
9	LB-09	Carpenter 1st class	Day	587	18%	693
10	LB-10	Carpenter 2nd class	Day	540	18%	637
11	LB-11	Needle Vibrator	Day	443	18%	523
12	LB-12	Coolie/Mazdoor / Chowkidar/ Helper (Unskilled Male abour)	Day	443	18%	523
13	LB-13	Driver / Operator (for Road Roller, Concrete Mixer, vibro-rollers, Truck,Jeep etc.)	Day	540	18%	637
14	LB-14	Electrician	Day	540	18%	637
15	LB-15	Engraver for lettering skilled	Day	540	18%	637
16	LB-16	Fitter (grade 1) / Drilling M/c Operator / Grinding Machine operator / Erector	Day	587	18%	693
17	LB-17	Fitter (grade 2) /Gas cutter	Day	540	18%	637
18	LB-18	Glazier	Day	540	18%	637
19	LB-19	Gunman/Nozzelman for Guniting	Day	491	18%	579
20	LB-20	Mali	Day	443	18%	523
21	LB-21	Mason (brick layer) 1st class	Day	587	18%	693
22	LB-22	Mason (brick layer) 2nd class	Day	540	18%	637
23	LB-23	Mazdoor/Sweeper (female)	Day	443	18%	523
24	LB-24	Mechanic	Day	540	18%	637
25	LB-25	Miner or Rock blaster	Day	491	18%	579
26	LB-26	OPERATOR OF PUMP GUNITE M/C OR COMPRESSOR	Day	443	18%	523
27	LB-27	Painter semi skilled	Day	540	18%	637
28	LB-28	Painter first class	Day	587	18%	693
29	LB-29	Plumber with tools 2nd class	Day	540	18%	637
30	LB-30	Plumber with tools I st class	Day	587	18%	693
31	LB-31	Polisher	Day	443	18%	523



Sr.No.	Material Code	Common Items	Unit	Final Rate 2017-18		
				Minimum Rate	GST %	Rate after GST
32	LB-32	Semi Skilled Labour (Beldar)	Day	443	18%	523
33	LB-33	Supervisor/Mistry/Mukadam / Foreman	Day	540	18%	637
34	LB-34	Tar Handler, Semiskilled	Day	491	18%	579
35	LB-35	Technician(Electrical)	Day	587	18%	693
36	LB-36	Tile Layer	Day	540	18%	637
37	LB-37	Tile Turner, Semiskilled	Day	491	18%	579
38	LB-38	Tinsmith with tools, semiskilled	Day	491	18%	579
39	LB-39	Tree cutter, semiskilled	Day	491	18%	579
40	LB-40	Medical Officer	Day	1017	18%	1200
41	LB-41	Para-medical person	Day	508	18%	600
42	HC-01	Dewatering Pump of 3HP	Day	900.00	18%	1062.00
43	HC-02	Dewatering Pump of 5HP	Day	1500.00	18%	1770.00
44	HC-03	Dewatering Pump of 10HP	Day	1800.00	18%	2124.00
45	HC-04	Drilling Machines (hole size 40mm x500 mm deep)	Day	1080.00	18%	1275.00
46	HC-05	Pneumatic drill	hole	30.00	18%	36.00
47	HC-06	Drilling machines	Day	1800.00	18%	2124.00
48	HC-07	Machinery for Drilling holes (in rock) 75 mm Dia	mt	200.00	18%	236.00
49	HC-08	Long reach excavator - boom length 20m	Day	11200.00	18%	13216.00
50	HC-09	Hydraulic Excavator (3D) with driver and fuel (JCB)	Day	6500.00	18%	7670.00
51	HC-10	Poclain machine for desilting (min output 300 cu.m per shift) (including two way transportation)	Day	21000.00	18%	24780.00
52	HC-11	Pontoon mounted Poclain machine for desilting (min output 300 cu.m per shift) (including two way transportation)	Day	24000.00	18%	28320.00
53	HC-12	Poclain HC.300 (including operator & helper,diesel,etc.)	Day	29000.00	18%	34220.00
54	HC-13	Tipper truck with 5 cum capacity	Day	4800.00	18%	5664.00
55	HC-14	Diesel Truck - 9 tonne	Day	6000.00	18%	7080.00
56	HC-15	Truck Trailer 30 tonne capacity	hour	1400.00	18%	1652.00
57	HC-16	Sewer cleaning bucket machine	Day	6800.00	18%	8024.00
58	HC-17	Loader	Day	6500.00	18%	7670.00
59	HC-18	Darda Rock Splitter	Day	1350.00	18%	1593.00
60	HC-19	Mechanical Breaker	Day	2000.00	18%	2360.00
61	HC-20	Pneumatic Breaker	Day	700.00	18%	826.00
62	HC-21	Rock breaker	Day	11000.00	18%	12980.00



Sr.No.	Material Code	Common Items	Unit	Final Rate 2017-18		
				Minimum Rate	GST %	Rate after GST
63	HC-22	Plate Compactor	Day	500.00	18%	590.00
64	HC-23	Welding Machine	Day	1000.00	18%	1180.00
65	HC-24	Pug Cutting Machine	Day	250.00	18%	295.00
66	HC-25	Grinding Machine	Day	250.00	18%	295.00
67	HC-26	Tractor with ripper attachment	Day	1850.00	18%	2183.00
68	HC-27	Tractor with trolley	Day	1850.00	18%	2183.00
69	HC-28	Air compressor 250 cfm	Day	3300.00	18%	3894.00
70	HC-29	Air compressor with pneumatic chisel attachment for cutting hard clay.	hour	425.00	18%	502.00
71	HC-30	Compressor with guniting equipment along with accessories	hour	1250.00	18%	1475.00
72	HC-31	Joint cutting machine with 2-3 blades	Day	1200.00	18%	1416.00
73	HC-32	Concrete Mixer 0.25 to 0.40 cubic metre	Day	1000.00	18%	1180.00
74	HC-33	Concrete Mixer - 1 cum	hour	300.00	18%	354.00
75	HC-34	Transit Mixer 4.0/4.5 cum	hour	1150.00	18%	1357.00
76	HC-35	Pumping charges of concrete including Hire charges of pump, piping work & accessories etc.	cum	200.00	18%	236.00
77	HC-36	Concrete Pump of 45 & 30 cum capacity	hour	150.00	18%	177.00
78	HC-37	Water Tanker 5 to 6 KL capacity	km	30.00	18%	36.00
79	HC-38	Water Tanker 5 to 6 KL capacity	hour	120.00	18%	142.00
80	HC-39	Generator blower, cutting machine water tanker etc.	Day	6200.00	18%	7316.00
81	HC-40	Generator 33 KVA	hour	312.50	18%	369.00
82	HC-41	Generator 63 KVA	hour	500.00	18%	590.00
83	HC-42	Generator 100 KVA /125 KVA	Day	1167.00	18%	1378.00
84	HC-43	Generator 250 KVA	Day	2500.00	18%	2950.00
85	HC-44	Pipe Cutting Machine for following Dia. of pipes	Day	0.00	0%	0.00
86	HC-44-i	80 mm	Day	1000.00	18%	1180.00
87	HC-44-ii	100 mm	Day	1050.00	18%	1239.00
88	HC-44-iii	150 mm	Day	1100.00	18%	1298.00
89	HC-44-iv	200 mm	Day	1150.00	18%	1357.00
90	HC-44-v	250 mm	Day	1200.00	18%	1416.00
91	HC-44-vi	300 mm.	Day	1250.00	18%	1475.00
92	HC-44-vii	350 mm.	Day	1300.00	18%	1534.00
93	HC-44-viii	400 mm.	Day	1350.00	18%	1593.00



Sr.No.	Material Code	Common Items	Unit	Final Rate 2017-18		
				Minimum Rate	GST %	Rate after GST
94	HC-44-ix	450 mm.	Day	1400.00	18%	1652.00
95	HC-44-x	500 mm.	Day	1450.00	18%	1711.00
96	HC-44-xi	600 mm.	Day	1500.00	18%	1770.00
97	HC-44-xii	700 mm.	Day	1550.00	18%	1829.00
98	HC-44-xiii	750 mm.	Day	1600.00	18%	1888.00
99	HC-44-xiv	800 mm	Day	1650.00	18%	1947.00
100	HC-44-xv	900 mm	Day	1700.00	18%	2006.00
101	HC-44-xvi	1000 mm	Day	1750.00	18%	2065.00
102	HC-45	Gas Stove	Day	180.00	18%	213.00
103	HC-46	Chain Pulley Block	Day	625.00	18%	738.00
104	HC-47	Ratchet Die and Tap Drill	Day	625.00	18%	738.00
105	HC-48	Electro Fusion Machine	Day	1850.00	18%	2183.00
106	HC-49	Electric mirror for butt jointing	Day	300.00	18%	354.00
107	HC-50	Mechanical jack for holding pipes	Day	625.00	18%	738.00
108	HC-51	Jointing Machine	Day	1450.00	18%	1711.00
109	HC-52	Hydraulic jack	Day	1450.00	18%	1711.00
110	HC-53	Bitumen Boiler oil fired	hour	250.00	18%	295.00
111	HC-54	Concrete Paver Finisher with 40 HP Motor	hour	3500.00	18%	4130.00
112	HC-55	Mobile crane - with boom length 30m (min output 300 cu.m per shift)	Day	9200.00	18%	10856.00
113	HC-56	light crane	Day	3000.00	18%	3540.00
114	HC-57	Crane with grab 0.75 cum capacity	hour	925.00	18%	1092.00
115	HC-58	Cranes 3 tonnes capacity	hour	450.00	18%	531.00
116	HC-59	Crane 5 tonne capacity	hour	470.00	18%	555.00
117	HC-60	Crane 10 tonne capacity	hour	500.00	18%	590.00
118	HC-61	Crane 15 tonne capacity	hour	550.00	18%	649.00
119	HC-62	Crane 20 tonne capacity	hour	670.00	18%	791.00
120	HC-63	Crane 35 tonne capacity	hour	975.00	18%	1151.00
121	HC-64	Crane 40 tonne capacity	hour	1125.00	18%	1328.00
122	HC-65	Crane 80 tonne capacity	hour	1300.00	18%	1534.00
123	HC-66	Pneumatic Sinking Plant	hour	5250.00	18%	6195.00
124	HC-67	Prestressing Jack with Pump & access	hour	250.00	18%	295.00



Sr.No.	Material Code	Common Items	Unit	Final Rate 2017-18		
				Minimum Rate	GST %	Rate after GST
125	HC-68	Jackhammer	Day	290.00	18%	343.00
126	HC-69	Boat to carry atleast 20 persons	hour	1600.00	18%	1888.00
127	HC-70	Epoxy Injection gun	hour	250.00	18%	295.00
128	HC-71	Induction, deinduction and erection of plant and equipment including all components and accessories for pneumatic method of well sinking.	hour	5250.00	18%	6195.00
129	HC-72	Jack for Lifting 40 tonne lifting capacity.	Day	12000.00	18%	14160.00
130	HC-73	Piling Rig with Bentonite Pump	hour	6500.00	18%	7670.00
131	HC-74	Piling rig Including double acting pile driving hammer (Hydraulic rig)	hour	6850.00	18%	8083.00
132	HC-75	Piling rig with tripod, winch chisel and other accessories	Day	3650.00	18%	4307.00
133	HC-76	Vibrating Pile driving hammer complete with power unit and accessories.	hour	2708.00	18%	3196.00
134	HC-77	Vibrator (Needle type 40mm)	Day	500.00	18%	590.00
135	HC-78	Roller 3T	Day	3550.00	18%	4189.00
136	HC-79	Roller 10-12 Tonne	Day	6400.00	18%	7552.00
137	HC-80	Vibratory Roller 8 tonne	hour	1600.00	18%	1888.00
138	HC-81	10 Ton Vibro Roller	Day	10000.00	18%	11800.00
139	HC-82	Screed Vibrator	Day	720.00	18%	850.00
140	HC-83	Plate Vibrator	Day	720.00	18%	850.00
141	HC-84	Pneumatic Road Roller	hour	1450.00	18%	1711.00
142	HC-85	Smooth Wheeled Roller 8 tonne	hour	500.00	18%	590.00
143	HC-86	Dumper	Day	2500.00	18%	2950.00
144	HC-87	Sensor Paver (Slip form paver with Electronic Sensor)	Day	22000.00	18%	25960.00
145	HC-88	Ordinary Paver	Day	11000.00	18%	12980.00
146	HC-89	Mastic Cooker (without diesel)	Day	1500.00	18%	1770.00
147	HC-90	Bitumen Pressure Distributor	hour	1200.00	18%	1416.00
148	HC-91	Dozer 180 HP @ 60 cum per hour	hour	2500.00	18%	2950.00
149	HC-92	Wet Mix Plant 60 TPH (25cum/hr)	Day	10000.00	18%	11800.00
150	HC-93	Batching and Mixing Plant @ 75 cum per hour	hour	3650.00	18%	4307.00
151	HC-94	Batching and Mixing Plant (a) 30 cum capacity	hour	2550.00	18%	3009.00
152	HC-95	Production cost of the batch mix plant	cum	500.00	18%	590.00
153	HC-96	Hotmix Plant - 120 TPH capacity	hour	31700.00	18%	37406.00
154	HC-97	Hotmix Plant - 100 TPH capacity	hour	23500.00	18%	27730.00
155	HC-98	Hydraulic Chip Spreader	hour	1875.00	18%	2213.00



Sr.No.	Material Code	Common Items	Unit	Final Rate 2017-18		
				Minimum Rate	GST %	Rate after GST
156	HC-99	Mechanical Broom Hydraulic	hour	500.00	18%	590.00
157	HC-100	Mobile slurry seal equipment	hour	1000.00	18%	1180.00
158	HC-101	Foden tractor trailer	Day	4000.00	18%	4720.00
159	HC-102	Mechanical Sprayer plant	sqm	10.00	18%	12.00
160	HC-103	Bump Integerator	Day	0	18%	0
161	HC-104	Falling Weight Deflectometer (FWD)	Day	0	18%	0
162	HC-105	Ground Penetrating Radar (GPR)	Day	30	18%	36
163	HC-106	Grouting pump with agitator	hour	30.00	18%	36.00
164	HC-150	Road marking machine		0		0
165	HC-151	Pulley and wench		0		0
166	MA-GN-01	Cement	MT	4812.5	28%	6160
167	MA-GN-02	White CEMENT	Bag	750	28%	960
168	MA-GN-03	Sulphate Resisting Cement (SRC)	MT	4200	28%	5376
169	MA-GN-04	Artificial crushed sand	cum	1765	5%	1854
170	MA-GN-05	Plaster Sand	cum	2544	5%	2672
171	MA-GN-06	Stone Aggregate (Metal I) : 6-12 mm nominal size	cum	1271	5%	1335
172	MA-GN-07	Stone Aggregate (Metal II) : 20-32 mm nominal size	cum	1271	5%	1335
173	MA-GN-08	Stone Aggregate (Metal III) : 40 mm nominal size	cum	1306	5%	1372
174	MA-GN-09	RUBBLE FOR MASONARY	cum	636	5%	668
175	MA-GN-10	RUBBLE FOR SOLING	cum	636	5%	668
176	MA-GN-11	Through and bond stone	Each	13	5%	14
177	MA-GN-12	Coarse graded Granular sub-base Material 4.75 mm to 2.36 mm	cum	1271	5%	1335
178	MA-GN-13	Rubble chips	cum	636	5%	668
179	MA-GN-14	Stone Boulder of size 150 mm and below at Crusher Plant	cum	1272	5%	1336
180	MA-GN-15	Boulder with minimum size of 300 mm for Pitching at Site	cum	873	18%	1031
181	MA-GN-16	Gravel/Quarry spall at Site- Min 40 Kg wt	cum	950	18%	1121
182	MA-GN-17	Stone grit	cum	1624	5%	1706
183	MA-GN-18	Murum	cum	850	5%	893
184	MA-GN-19	Structural Steel	MT	43000	18%	50740
185	MA-GN-20	Mild Steel bars	MT	40000	18%	47200
186	MA-GN-21	HYSD Bars-Fe 415 (Twisted steel / deformed bars)	MT	42000	18%	49560



Sr.No.	Material Code	Common Items	Unit	Final Rate 2017-18		
				Minimum Rate	GST %	Rate after GST
187	MA-GN-22	Thermo mechanically treated steel bars (for reinforcement) -TMT 500D	MT	44500	18%	52510
188	MA-GN-23	M.S. plates & Flats	MT	42000	18%	49560
189	MA-GN-24	Gunny bag	Nos	7	5%	8
190	MA-GN-25	Fuel Wood	kg	4	0%	5
191	MA-GN-26	Plaster of paris	Kg	7	18%	9
192	MA-GN-27	Diesel	ltr	67	0%	67
193	MA-GN-28	PETROL	ltr	81	0%	81
194	MA-GN-29	Kerosene	ltr	55	5%	58
195	MA-GN-30	Shuttering oil	ltr	55	18%	65
196	MA-GN-31	Binding wire	kg	60	18%	71
197	MA-GN-32	Water	KL	150	0%	150
198	MA-GN-33	Bricks 4"	1000 nos	5000	5%	5250
	MA-GN-33A	Bricks 6"		9300	5%	9765
199	MA-GN-34	Bitumen (30-40 grade)/ VG-40	tonne	26540	18%	31318
200	MA-GN-35	Bitumen (60-70 grade)/ VG-30	tonne	25040	18%	29548
201	MA-GN-36	Bitumen (80-100 grade)/ VG-10	tonne	24240	18%	28604
202	MA-GN-37	RMC M10	Cum	4450	18%	5251
203	MA-GN-38	RMC M15	Cum	4650	18%	5487
204	MA-GN-39	RMC M20	Cum	4800	18%	5664
205	MA-GN-40	RMC M25	Cum	5000	18%	5900
206	MA-GN-41	RMC M30	Cum	5200	18%	6136
207	MA-GN-42	RMC M35	Cum	5400	18%	6372
208	MA-GN-43	RMC M40	Cum	5600	18%	6608
209	MA-GN-44	RMC M45	Cum	5800	18%	6844
210	MA-GN-45	RMC M50	Cum	6000	18%	7080
211	MA-GN-46	Mobile engine oil	Cum	155	18%	183
212	MA-GN-47	Corrosion Resistant Steel	MT	48500	18%	57230
213	MA-GN-48	Thermo mechanically treated steel bars (for reinforcement) -TMT 600D	MT	48500	18%	57230
214	MA-GN-49	PPC (Pozzolana Portland Cement)	MT	3920	28%	5018
215	MA-GN-50	OPC 43 Grade	Bags	240	28%	308
216	MA-GN-51	PSC	Bags	190	28%	243



Sr.No.	Material Code	Common Items	Unit	Final Rate 2017-18		
				Minimum Rate	GST %	Rate after GST
217	MA-GN-52	Self Compacting Concrete (M-30 Grade)	Cum	5884	18%	6944
218	MA-GN-53	Self Compacting Concrete (M-35 Grade)	Cum	6107	18%	7207
219	MA-GN-54	Self Compacting Concrete (M-40 Grade)	Cum	6228	18%	7349
220	MA-GN-55	Self Compacting Concrete (M-45 Grade)	Cum	6667	18%	7868
221	MA-GN-56	Self Compacting Concrete (M-50 Grade)	Cum	6912	18%	8157
	MA-GN-57	RCC Grade of M25 (Sulphate Resistent Cement) (RMC Excludng shuttering)	Cum	5800	18%	6844
223	MA-GN-58	RCC Grade of M30 (Sulphate Resistent Cement) (RMC Excludng shuttering)	Cum	6100	18%	7198
224	MA-GN-59	RCC Grade of M35(Sulphate Resistent Cement) (RMC Excludng shuttering)	Cum	6250	18%	7375
225	MA-GN-60	RCC Grade of M40 (Sulphate Resistent Cement) (RMC Excludng shuttering)	Cum	6600	18%	7788
226	MA-GN-61	RCC Grade of M45 (Sulphate Resistent Cement) (RMC Excludng shuttering)	Cum	7000	18%	8260
227	MA-GN-62	RCC Grade of M50 (Sulphate Resistent Cement) (RMC Excludng shuttering)	Cum	7300	18%	8614
228	MA-GN-63	RCC Grade of M55 (Sulphate Resistent Cement) (RMC Excludng shuttering)	Cum	8368	18%	9875
229	MA-GN-64	RCC Grade of M60 (Sulphate Resistent Cement) (RMC Excludng shuttering)	Cum	9100	18%	10738
230	MA-BLD-AT-1	Chloropyrifos emulsifiable EC 20	Lit	175	18%	207
231	MA-BLD-AT-3	Wood preservative for anti-termite treatment	Lit	70	18%	83
232	MA-BLD-AW-1	Aluminium T or L sections	kg	205	18%	242
233	MA-BLD-AW-2	Neoprene/EPDM rubber gasket	Rm	75	18%	89
234	MA-BLD-AW-3	Aluminum decogrill	sqm	950	18%	1121
235	MA-BLD-AW-4	Anodising 25 microns on aluminium sections	kg	60	18%	71
236	MA-BLD-AW-5	Powder coating 50 microns on aluminium sections.	kg	55	18%	65
237	MA-BLD-AW-6	Float glass sheet of nominal thickness 3.5 mm	sqm	315	18%	372
238	MA-BLD-AW-7	Float glass sheet of nominal thickness 4 mm	sqm	373	18%	440
239	MA-BLD-AW-8	Float glass sheet of nominal thickness 5mm.	sqm	407	18%	481
240	MA-BLD-AW-9	Float glass sheet of nominal thickness 6mm.	sqm	478	18%	564
241	MA-BLD-AW-10	Float glass sheet of nominal thickness 8mm.	sqm	653	18%	771
242	MA-BLD-AW-11	Novapan sheet panes of nominal thickness 9mm.	sqm	480	18%	567
243	MA-BLD-AW-12	Novapan sheet panes of nominal thickness 12mm.	sqm	850	18%	1003
244	MA-BLD-AW-13	Hardener Laminated sheet 4mm thk. (Bakelite composite panel)	sqm	450	18%	531
245	MA-BLD-AW-14	15 mm thick Hollow PVC sheet Panel (Sintex or Equivalent)	sqm	450	18%	531
246	MA-BLD-AW-15	Acrylic sheet of nominal thickness 6mm.	sqm	1100	18%	1298
247	MA-BLD-AW-16	S.S. mosquito net	sqm	350	18%	413



Sr.No.	Material Code	Common Items	Unit	Final Rate 2017-18		
				Minimum Rate	GST %	Rate after GST
248	MA-BLD-AW-17	Stainless steel (SS 304 grade) adjustable friction window stay. 510 x 19 mm	No.	250	18%	295
249	MA-BLD-AW-18	Novapan sheet panes of nominal thickness 6mm.	sqm	430	18%	508
250	MA-BLD-AW-19	12 mm toughened Glass panes	sqm	1900	18%	2242
251	MA-BLD-EW-1	Blasting powder	Kg	60	18%	71
252	MA-BLD-EW-2	Fuse	No.	20	18%	24
253	MA-BLD-EW-3	Country Wood	Cum	22000	18%	25960
254	MA-BLD-GN-5	Production cost of concrete by batch mix plant.	cum	400	18%	472
255	MA-BLD-GN-9	Safeda ballies 125 mm diameter	metre	70	18%	83
256	MA-BLD-GN-11	Bright finished or black enamelled mild steel screws 25 mm	100 Nos	25	18%	30
257	MA-BLD-GN-12	Cement Concrete Jali 40 mm thick	sqm	600	18%	708
258	MA-BLD-GN-13	Cement Concrete Jali 25 mm thick	sqm	375	18%	443
259	MA-BLD-GN-18	Mild steel expanded metal 20x60 mm strands	sqm	347	18%	410
260	C-MA-BLD-GN-19	Second class kail wood in scantling	One Cum	19404	18%	22897
261	MA-BLD-GN-20	Second class kail wood in planks	One Cum	19404	18%	22897
262	MA-BLD-GN-21	Fly ash	PMT	3000	5%	3150
263	MA-BLD-GN-22	Strips-Aluminium fluted 3.15mm thick and 150mm wide	metre	200	18%	236
264	MA-BLD-GN-23	Strips Aluminium fluted 3.15mm thick and 200mm wide metre	Metre	300	18%	354
265	MA-BLD-GN-24	Hollock ballies 125 mm diameter	metre	70	18%	83
266	MA-BLD-GN-25	Plasticizer / super plasticizer	kilogram	40	18%	48
267	MA-BLD-GN-26	Wall form panel 1250x500 mm	each	2130	18%	2514
268	MA-BLD-GN-27	Corner angle 45x45x5 mm 1.50 m long	each	390	18%	461
269	MA-BLD-GN-28	100 mm channel shoulder 2.5 m long	each	1950	18%	2301
270	MA-BLD-GN-29	Double clip (bridge clip)	each	230	18%	272
271	MA-BLD-GN-30	Single clip	each	110	18%	130
272	MA-BLD-GN-31	M.S. tube 40 mm dia	metre	170	18%	201
273	MA-BLD-GN-32	Wall form panel 1250x450 mm	each	1970	18%	2325
274	MA-BLD-GN-33	Corner angle 45x45x5 m 2.50 m long	each	650	18%	767
275	MA-BLD-GN-34	Column clamp 450x1070 m	each	1800	18%	2124
276	MA-BLD-GN-35	Prop 4 m	each	1500	18%	1770
277	MA-BLD-GN-36	Adjustable span ESO+SI (2.35-3.40)	each	2650	18%	3127
278	MA-BLD-GN-37	Adjustable telescopic prop 3 m (2.02-3.75 m)	each	1350	18%	1593



Sr.No.	Material Code	Common Items	Unit	Final Rate 2017-18		
				Minimum Rate	GST %	Rate after GST
279	MA-BLD-GN-38	Beam clamp 300-380 mm (450-1070 mm)	each set	1800	18%	2124
280	MA-BLD-GN-39	Water proof ply 12mm thick.	sqm	572	18%	675
281	MA-BLD-GN-40	Hydrophobic silane siloxane coating qtn given by repcon	Sqm	140	18%	166
282	MA-BLD-GN-41	Cement Concrete Jali 50 mm thick	Sqm	750	18%	885
283	MA-BLD-GN-42	Carriage of Timber	cum	70	18%	83
284	MA-BLD-GN-43	Cement Concrete Jali 100 mm thick	sqm	1500	18%	1770
285	MA-BLD-GN-44	Hydrophilic silane siloxane coating qtn given by repcon	sqm	170	18%	201
286	MA-BLD-GN-45	B.R. Fabric 10 GSM	sqm	100	5%	105
287	MA-BLD-GN-46	Teak wood battens of size 20 X 20 mm for chamfering of columns	sqm	1600	0%	1600
288	MA-BLD-GN-47	Galvanised steel plain sheets	quintal	4750	18%	5605
289	MA-BLD-PN-1	Lime for painting work	Kg	15	28%	20
290	MA-BLD-PN-2	Blue pigments for painting work	Lit.	600	28%	768
291	MA-BLD-PN-3	Color pigments in painting work (Pidilite or equivalent)	Lit.	500	28%	640
292	MA-BLD-PN-4	Primer for Oil bound distemper/ Acrylic distemper (Water Primer)	Lit.	62	28%	80
293	MA-BLD-PN-5	Oil bound distemper/ Acrylic distemper	Kg	37	28%	48
294	MA-BLD-PN-6	Primer for Dry distemper paint	Kg	51	28%	66
295	MA-BLD-PN-7	Dry distemper paint	Kg	24	28%	31
296	MA-BLD-PN-8	Primer for Acrylic plastic emulsion	Lit.	79	28%	102
297	MA-BLD-PN-9	Acrylic plastic emulsion	Lit.	191	28%	245
298	MA-BLD-PN-10	Primer for Oil paint/ synthetic enamel paint	Lit.	115	28%	147
299	MA-BLD-PN-11	Oil paint/ synthetic enamel paint	Lit.	124	28%	159
300	MA-BLD-PN-12	Golden colour oil paint/ synthetic enamel paint	Lit	195	28%	250
301	MA-BLD-PN-13	Waterproof cement paint	Kg	31	28%	40
302	MA-BLD-PN-14	Acrylic based APEX emulsion	Lit	188	28%	241
303	MA-BLD-PN-15	Acrylic based exterior emulsion with silicone additives	Lit	272	28%	349
304	MA-BLD-PN-16	Primer for Acrylic based APEX emulsion	Lit	84	28%	108
305	MA-BLD-PN-17	Textured exterior paint (Granotex) - Textured acrylic paint -- coverage 3.28 lit/10 sqm	Lit	150	28%	192
306	MA-BLD-PN-18	Aluminum enamel paint	Lit	143	28%	183
307	MA-BLD-PN-19	Rubber chlorinated paint	Lit	201	28%	258
308	MA-BLD-PN-20	Fire retarding paint	Lit	282	28%	361
309	MA-BLD-PN-21	Zink cromet red oxide	Lit	94	28%	121



Sr.No.	Material Code	Common Items	Unit	Final Rate 2017-18		
				Minimum Rate	GST %	Rate after GST
310	MA-BLD-PN-22	Whiting powder	Kg	10	18%	12
311	MA-BLD-PN-24	Primer for Luster paint	Lit	115	28%	147
312	MA-BLD-PN-25	Luster paint	Lit	180	28%	231
313	MA-BLD-PN-26	Cipoxy 11 or equivalent as primer	Lit	299	18%	353
314	MA-BLD-PN-27	Floortop 2000 kit	Kit	3282	18%	3873
315	MA-BLD-PN-28	Ciposcreed 15	Lit	345	18%	408
316	MA-BLD-PN-29	Cipothane SL	Lit	415	18%	490
317	MA-BLD-PN-30	SS 200 (Formulated Quartz, Aggregates)	Kg	18	18%	22
318	MA-BLD-PN-31	Acid proof paint (chocolate or black)	litre	174	28%	223
319	MA-BLD-PN-32	Anticorrosive bituminous paint (black)	litre	71	28%	92
320	MA-BLD-PN-33	Black Japan	litre	100	18%	118
321	MA-BLD-PN-34	Roofing paint for iron sheets in red colour	litre	220	18%	260
322	MA-BLD-PN-35	Water proofing cement paint	kilogram	56	28%	72
323	MA-BLD-PN-36	Ordinary varnish	litre	101	28%	130
324	MA-BLD-PN-37	Superior copal varnish	litre	160	28%	205
325	MA-BLD-PN-38	Superior spar varnish	litre	160	28%	205
326	MA-BLD-PN-39	Premium Acrylic exterior paint	litre	194	28%	249
327	MA-BLD-HM-1	Brass mortice latch 100x65mm with a pair of brass lever handles	No.	320	18%	378
328	MA-BLD-HM-2	Chromium plated Brass mortice latch and lock 100x65 mm with 6	No.	539	18%	637
329	MA-BLD-HM-3	Chromium plated Brass Night latch	No.	542	18%	640
330	MA-BLD-HM-4	Bright finished or black enameled mild steel butt hinges 150 mm long	10 Nos	188	18%	222
331	MA-BLD-HM-5	Bright finished or black enameled mild steel butt hinges 125x65x2.12 mm	10 Nos	145	18%	171
332	MA-BLD-HM-6	Bright finished or black enameled mild steel butt hinges 100x58x1.90 mm	10 Nos	90	18%	107
333	MA-BLD-HM-7	Bright finished or black enameled mild steel butt hinges 75x47x1.70 mm	10 Nos	67	18%	80
334	MA-BLD-HM-8	Brass butt hinges (light/ordinary type) : 150 mm long	10 Nos	850	18%	1003
335	MA-BLD-HM-9	Brass butt hinges (light/ordinary type) : 125x70x4 mm	10 Nos	859	18%	1015
336	MA-BLD-HM-10	Brass butt hinges (light/ordinary type) : 100x70x4 mm	10 Nos	500	18%	590
337	MA-BLD-HM-11	Brass butt hinges (light/ordinary type) : 75x40x2.5 mm	10 Nos	370	18%	437
338	MA-BLD-HM-12	Anodised Aluminium butt hinges 75x63x4 mm	10 Nos	360	18%	425
339	MA-BLD-HM-13	Anodised Aluminium butt hinges 100x75x4 mm	10 Nos	480	18%	567
340	MA-BLD-HM-14	Anodised Aluminium butt hinges 125x75x4 mm	10 Nos	547	18%	646



Sr.No.	Material Code	Common Items	Unit	Final Rate 2017-18		
				Minimum Rate	GST %	Rate after GST
341	MA-BLD-HM-15	Anodised Aluminium butt hinges 150 mm long	10 Nos	580	18%	685
342	MA-BLD-HM-16	Stainless steel butt hinges 150 mm long	10 Nos	226	18%	267
343	MA-BLD-HM-17	Stainless steel butt hinges 125x64x1.9 mm IS : 12817 marked	10 Nos	229	18%	271
344	MA-BLD-HM-18	Stainless steel butt hinges 100x58x1.9 mm IS : 12817 marked	10 Nos	220	18%	260
345	MA-BLD-HM-19	Stainless steel butt hinges 75x47x1.8 mm IS : 12817 marked	10 Nos	180	18%	213
346	MA-BLD-HM-20	Stainless steel butt hinges with ball bearings 150mm long	10 Nos	461	18%	544
347	MA-BLD-HM-21	Stainless steel butt hinges with ball bearings 125mm long	10 Nos	313	18%	369
348	MA-BLD-HM-22	Stainless steel butt hinges with ball bearings 100mm long	10 Nos	227	18%	269
349	MA-BLD-HM-23	Stainless steel butt hinges with ball bearings 75mm long	10 Nos	180	18%	213
350	MA-BLD-HM-24	Oxidised mild steel parliamentary hinges 150x125x27x2.8 mm	10 Nos	320	18%	378
351	MA-BLD-HM-25	Oxidised mild steel parliamentary hinges 125x125x27x2.8 mm	10 Nos	304	18%	359
352	MA-BLD-HM-26	Oxidised mild steel c100x125x27x2.8 mm	10 Nos	219	18%	259
353	MA-BLD-HM-27	Oxidised mild steel parliamentary hinges 75x100x20x2.24 mm	10 Nos	188	18%	222
354	MA-BLD-HM-28	75mm long Bright finished M.S. pressed parliamentary hinges	10 Nos	184	18%	217
355	MA-BLD-HM-29	100mm long Bright finished M.S. pressed parliamentary hinges	10 Nos	219	18%	259
356	MA-BLD-HM-30	125mm long Bright finished M.S. pressed parliamentary hinges	10 Nos	301	18%	355
357	MA-BLD-HM-31	150mm long Bright finished M.S. pressed parliamentary hinges	10 Nos	328	18%	388
358	MA-BLD-HM-32	75mm long brass parliamentary hinges with chromium plating	10 Nos	260	18%	307
359	MA-BLD-HM-33	100mm long brass parliamentary hinges with chromium plating	10 Nos	292	18%	345
360	MA-BLD-HM-34	125mm long brass parliamentary hinges with chromium plating	10 Nos	340	18%	402
361	MA-BLD-HM-35	150mm long brass parliamentary hinges with chromium plating	10 Nos	391	18%	462
362	MA-BLD-HM-36	Oxidised mild steel tower bolt (barrel type) 300 mm long	No.	38	18%	45
363	MA-BLD-HM-37	Oxidised mild steel double acting spring hinges 150 mm	No.	102	18%	120
364	MA-BLD-HM-38	Oxidised mild steel double acting spring hinges 125 mm	No.	104	18%	123
365	MA-BLD-HM-39	Oxidised mild steel double acting spring hinges 100 mm	No.	94	18%	111
366	MA-BLD-HM-40	Brass double acting spring hinges 150 mm	No.	534	18%	630
367	MA-BLD-HM-41	Brass double acting spring hinges 125 mm	No.	347	18%	410
368	MA-BLD-HM-42	Brass double acting spring hinges 100 mm	No.	313	18%	370
369	MA-BLD-HM-43	250mm long Iron oxidized aldop	10 Nos.	94	18%	111
370	MA-BLD-HM-44	300mm long Iron oxidized aldop	10 Nos.	102	18%	120
371	MA-BLD-HM-45	250mm long standard brass aldop	10 Nos.	121	18%	143



Sr.No.	Material Code	Common Items	Unit	Final Rate 2017-18		
				Minimum Rate	GST %	Rate after GST
372	MA-BLD-HM-46	300mm long standard brass aldrop	10 Nos.	156	18%	185
373	MA-BLD-HM-47	250mm long anodized aluminum aldrop	10 Nos.	109	18%	130
374	MA-BLD-HM-48	300mm long anodized aluminum aldrop	10 Nos.	156	18%	185
375	MA-BLD-HM-49	250mm long standard S.S. aldrop	10 Nos.	133	18%	157
376	MA-BLD-HM-50	300mm long standard S.S. aldrop	10 Nos.	180	18%	213
377	MA-BLD-HM-51	Oxidised mild steel tower bolt (barrel type) 250x10 mm	No.	39	18%	47
378	MA-BLD-HM-52	Oxidised mild steel tower bolt (barrel type) 200x10 mm	No.	31	18%	37
379	MA-BLD-HM-53	Oxidised mild steel tower bolt (barrel type) 150x10 mm	No.	27	18%	33
380	MA-BLD-HM-54	Oxidised mild steel tower bolt (barrel type) 100x10 mm	No.	22	18%	26
381	MA-BLD-HM-55	Anodised Aluminium tower bolt (barrel type)300x10 mm	10 Nos	600	18%	708
382	MA-BLD-HM-56	Anodised Aluminium tower bolt (barrel type)250x10 mm	10 Nos	500	18%	590
383	MA-BLD-HM-57	Anodised Aluminium tower bolt (barrel type)200x10 mm	10 Nos	400	18%	472
384	MA-BLD-HM-58	Anodised Aluminium tower bolt (barrel type)150x10 mm	10 Nos	300	18%	354
385	MA-BLD-HM-59	Anodised Aluminium tower bolt (barrel type)100x10 mm	10 Nos	200	18%	236
386	MA-BLD-HM-60	Brass tower bolt (barrel type) 300 mm long	No.	245	18%	289
387	MA-BLD-HM-61	Brass tower bolt (barrel type) 250x10 mm	No.	200	18%	236
388	MA-BLD-HM-62	Brass tower bolt (barrel type) 200x10 mm	No.	188	18%	222
389	MA-BLD-HM-63	Brass tower bolt (barrel type) 150x10 mm	No.	120	18%	142
390	MA-BLD-HM-64	Brass tower bolt (barrel type) 100x10 mm	No.	80	18%	95
391	MA-BLD-HM-65	Stainless steel tower bolt (barrel type) 100 mm long	No.	120	18%	142
392	MA-BLD-HM-66	Stainless steel tower bolt (barrel type) 150 mm long	No.	159	18%	189
393	MA-BLD-HM-67	Stainless steel tower bolt (barrel type) 200 mm long	No.	200	18%	236
394	MA-BLD-HM-68	Stainless steel tower bolt (barrel type) 250 mm long	No.	240	18%	284
395	MA-BLD-HM-69	Stainless steel tower bolt (barrel type) 300 mm long	No.	280	18%	331
396	MA-BLD-HM-70	Oxidised mild steel handles 200 mm	No.	23	18%	27
397	MA-BLD-HM-71	Oxidised mild steel handles 150 mm	No.	20	18%	24
398	MA-BLD-HM-72	Oxidised mild steel handles 125 mm	No.	18	18%	22
399	MA-BLD-HM-73	Oxidised mild steel handles 100 mm	No.	16	18%	19
400	MA-BLD-HM-74	Oxidised mild steel handles75 mm	No.	15	18%	18
401	MA-BLD-HM-75	Brass handles 300 mm with plate	No.	273	18%	323
402	MA-BLD-HM-76	Brass handles 250 mm with plate	No.	1300	18%	1534



Sr.No.	Material Code	Common Items	Unit	Final Rate 2017-18		
				Minimum Rate	GST %	Rate after GST
403	MA-BLD-HM-77	Brass handles 200 mm with plate	No.	190	18%	225
404	MA-BLD-HM-78	Brass handles 150 mm with plate	No.	156	18%	185
405	MA-BLD-HM-79	Brass handles 125 mm with plate 175x32 mm	No.	152	18%	180
406	MA-BLD-HM-80	Brass handles 100 mm with plate 150x32 mm	No.	138	18%	163
407	MA-BLD-HM-81	Brass handles 75 mm with plate 125x32 mm	No.	104	18%	123
408	MA-BLD-HM-82	Anodised Aluminium handles 100 mm with plate 150 x 32 mm	10 Nos.	395	18%	466
409	MA-BLD-HM-83	Anodised Aluminium handles 150 mm long	10 Nos.	400	18%	472
410	MA-BLD-HM-84	Anodised Aluminium handles 200 mm long	10 Nos.	500	18%	590
411	MA-BLD-HM-85	Anodised Aluminium handles 250 mm long	10 Nos.	559	18%	660
412	MA-BLD-HM-86	Anodised Aluminium handles 300 mm long	10 Nos.	600	18%	708
413	MA-BLD-HM-87	Stainless steel handles 100 mm long	No.	35	18%	42
414	MA-BLD-HM-88	Stainless steel handles 150 mm long	No.	55	18%	65
415	MA-BLD-HM-89	Stainless steel handles 200 mm long	No.	72	18%	85
416	MA-BLD-HM-90	Stainless steel handles 250 mm long	No.	90	18%	107
417	MA-BLD-HM-91	Stainless steel handles 300 mm long	No.	108	18%	128
418	MA-BLD-HM-92	Anodised Aluminium hanging type door stopper	No.	23	18%	27
419	MA-BLD-HM-93	Brass hanging type door stopper 150 mm	No.	66	18%	78
420	MA-BLD-HM-94	M.S. chrome plated door stopper	No.	18	18%	22
421	MA-BLD-HM-95	S.S. door stopper	No.	40	18%	48
422	MA-BLD-HM-96	Iron oxidized hanging type floor door stopper	No.	20	18%	24
423	MA-BLD-HM-97	Magnetic type door stopper	No.	27	18%	33
424	MA-BLD-HM-98	Steel peep hole with chromium plating	No.	40	18%	48
425	MA-BLD-HM-99	Stainless Steel peep hole	No.	59	18%	71
426	MA-BLD-HM-100	Brass peep hole	No.	78	18%	93
427	MA-BLD-HM-101	Oxidised M.S.casement stay (straight peg type) 300 mm not less than 0.33 kg	No.	23	18%	27
428	MA-BLD-HM-102	Oxidised M.S.casement stay (straight peg type) 250 mm not less than 0.28 kg	No.	20	18%	24
429	MA-BLD-HM-103	Oxidised M.S.casement stay (straight peg type) 200 mm not less than 0.24 kg	No.	18	18%	22
430	MA-BLD-HM-104	Light (For shutter wt. upto 35 kg) Hydraulic door closer as per I.S. 3564,	No.	430	18%	508
431	MA-BLD-HM-105	Medium (For shutter wt. upto 50 kg) hydraulic door closer	No.	552	18%	652
432	MA-BLD-HM-106	Heavy (For shutter wt. 61-80 kg) Hydraulic door closer as per I.S. 3564,	No.	700	18%	826
433	MA-BLD-HM-107	Oxidised mild steel screws 50 mm	100 Nos	46	18%	55



Sr.No.	Material Code	Common Items	Unit	Final Rate 2017-18		
				Minimum Rate	GST %	Rate after GST
434	MA-BLD-HM-108	Oxidised mild steel screws 40 mm	100 Nos	35	18%	42
435	MA-BLD-HM-109	Oxidised mild steel screws 35 mm	100 Nos	29	18%	35
436	MA-BLD-HM-110	Oxidised mild steel screws 30 mm	100 Nos	47	18%	56
437	MA-BLD-HM-111	Oxidised mild steel screws 25 mm	100 Nos	22	18%	26
438	MA-BLD-HM-112	Oxidised mild steel screws 20 mm	100 Nos	20	18%	24
439	MA-BLD-HM-113	Stainless steel screws 50 mm	100 Nos	220	18%	260
440	MA-BLD-HM-114	Stainless steel screws 40 mm	100 Nos	93	18%	110
441	MA-BLD-HM-115	Stainless steel screws 35mm	100 Nos	74	18%	88
442	MA-BLD-HM-116	Stainless steel screws 30 mm	100 Nos	74	18%	88
443	MA-BLD-HM-117	Stainless steel screws 25 mm	100 Nos	72	18%	85
444	MA-BLD-HM-118	Stainless steel screws 20 mm	100 Nos	47	18%	56
445	MA-BLD-HM-119	Chromium plated Brass screws 50 mm	100 Nos	240	18%	284
446	MA-BLD-HM-120	Chromium plated Brass screws 40 mm	100 Nos	203	18%	240
447	MA-BLD-HM-121	Chromium plated Brass screws 30 mm	100 Nos	164	18%	194
448	MA-BLD-HM-123	Chromium plated Brass screws 20 mm	100 Nos	64	18%	76
449	MA-BLD-HM-122	Chromium plated Brass screws 25 mm	100 Nos	76	18%	90
450	MA-BLD-HM-129	Brass screws 50 mm	100 Nos	219	18%	259
451	MA-BLD-HM-130	Brass screws 40 mm	100 Nos	172	18%	203
452	MA-BLD-HM-131	Brass screws 35mm	100 Nos	141	18%	166
453	MA-BLD-HM-132	Brass screws 30 mm	100 Nos	125	18%	148
454	MA-BLD-HM-133	Brass screws 25 mm	100 Nos	104	18%	123
455	MA-BLD-HM-134	Brass screws 20 mm	100 Nos	88	18%	104
456	MA-BLD-HM-135	Aluminum screws 25mm	100 Nos	25	18%	30
457	MA-BLD-HM-136	Aluminum screws 30mm	100 Nos	29	18%	35
458	MA-BLD-HM-137	Aluminum screws 35mm	100 Nos	80	18%	94
459	MA-BLD-HM-138	Aluminum screws 40mm	100 Nos	34	18%	41
460	MA-BLD-HM-139	Aluminum screws 50mm	100 Nos	45	18%	53
461	MA-BLD-HM-140	Bright finished or black enameled mild steel bolts and nuts 50x6 mm	No.	5	18%	7
462	MA-BLD-HM-141	Anodized aluminum bolts and nuts 50 x 6mm	No.	7	18%	9
463	MA-BLD-HM-142	Stainless steel bolts and nuts 50 x 6mm	No.	20	18%	24
464	MA-BLD-HM-143	Brass bolts and nuts 50 x 6mm	No.	14	18%	17



Sr.No.	Material Code	Common Items	Unit	Final Rate 2017-18		
				Minimum Rate	GST %	Rate after GST
465	MA-BLD-HM-144	Double action hydraulic floor spring with brass cover plate	No.	1836	18%	2167
466	MA-BLD-HM-146	Anodised Aluminium kicking plate 50 cm long 100x3.15 mm	No.	138	18%	163
467	MA-BLD-HM-147	Double action hydraulic floor spring with S.S. cover plate	No.	1523	18%	1798
468	MA-BLD-HM-148	Stainless steel door chain	No.	40	18%	48
469	MA-BLD-HM-149	chromium plated brass mortice lock and latch with round knob	No.	824	18%	973
470	MA-BLD-HM-150	200mm long iron oxidized tadi	No.	69	18%	82
471	MA-BLD-HM-151	250mm long iron oxidized tadi	No.	78	18%	93
472	MA-BLD-HM-152	200mm long brass tadi	No.	160	18%	189
473	MA-BLD-HM-153	250mm long brass tadi	No.	156	18%	185
474	MA-BLD-HM-154	200mm long aluminum tadi	No.	50	18%	59
475	MA-BLD-HM-155	250mm long aluminum tadi	No.	70	18%	83
476	MA-BLD-HM-156	200mm long S.S. tadi	No.	90	18%	107
477	MA-BLD-HM-157	250mm long S.S. tadi	No.	130	18%	154
478	MA-BLD-HM-158	Brass single acting spring hinges 150 mm	each	240	18%	284
479	MA-BLD-HM-159	Brass single acting spring hinges 125 mm	each	200	18%	236
480	MA-BLD-HM-160	Brass single acting spring hinges 100 mm	each	160	18%	189
481	MA-BLD-HM-161	Brass flush bolt 250 mm	each	192	18%	227
482	MA-BLD-HM-162	Brass flush bolt 150 mm	each	140	18%	166
483	MA-BLD-HM-163	Brass flush bolt 100 mm	each	96	18%	114
484	MA-BLD-HM-164	Brass hard drawn hooks and eyes 300 mm	10 Nos	650	18%	767
485	MA-BLD-HM-165	Brass hard drawn hooks and eyes 250 mm	10 Nos	635	18%	750
486	MA-BLD-HM-166	Brass hard drawn hooks and eyes 200 mm	10 Nos	590	18%	697
487	MA-BLD-HM-167	Brass hard drawn hooks and eyes 150 mm	10 Nos	450	18%	531
488	MA-BLD-HM-168	Brass hard drawn hooks and eyes 100 mm	10 Nos	400	18%	472
489	MA-BLD-HM-169	Brass casement window fastener	Each	52	18%	62
490	MA-BLD-HM-170	Brass quadrant stays 300 mm	each	130	18%	154
491	MA-BLD-HM-171	Brass fanlight catch	10 Nos	202	18%	239
492	MA-BLD-HM-172	Brass fanlight pivot	10 Nos	200	18%	236
493	MA-BLD-HM-173	Brass chain with hook for fan light catch	each	40	18%	48
494	MA-BLD-HM-174	Brass helical spring 150 mm	each	301	18%	356
495	MA-BLD-HM-175	Brass curtain rod 25 mm dia 1.25 mm thick	metre	83	18%	98



Sr.No.	Material Code	Common Items	Unit	Final Rate 2017-18		
				Minimum Rate	GST %	Rate after GST
496	MA-BLD-HM-176	Brass brackets (curtain rods) 20 mm	each	48	18%	57
497	MA-BLD-HM-177	Chromium plated Brass butt hinges (heavy) type 75x65x4 .0 mm 200 gms	10 Nos	1200	18%	1416
498	MA-BLD-HM-178	Chromium plated Brass butt hinges (light/ordinary) type 125x70x4	10 Nos	950	18%	1121
499	MA-BLD-HM-179	Chromium plated Brass butt hinges (light/ordinary) type 100x70x4mm	10 Nos	800	18%	944
500	MA-BLD-HM-180	Chromium plated Brass butt hinges (light/ordinary) type 75x40x2.5	10 Nos	600	18%	708
501	MA-BLD-HM-181	Chromium plated Brass butt hinges (light/ordinary) type 50x40x2.5	10 Nos	40	18%	48
502	MA-BLD-HM-182	Bright finished or black enamelled mild steel butt hinges 50x37x1.50 mm	10 Nos	180	18%	213
503	MA-BLD-HM-183	Nickel plated mild steel piano hinges 1 mm thick 35 mm wide	metre	50	18%	59
504	MA-BLD-HM-184	Bright finished or black enameled mild steel screws 25 mm	100 Nos	40	18%	48
505	MA-BLD-HM-185	Bright finished or black enameled mild steel screws 20 mm	100 Nos	30	18%	36
506	MA-BLD-HM-186	C.P.brass chain with 32 mm dia rubber plug	each	70	18%	83
507	MA-BLD-HM-187	C.P.brass chain with 40 mm dia rubber plug	each	85	18%	101
508	MA-BLD-HM-188	Float glass sheet of nominal thickness 4 mm (weight not less than 10kg/sqm).	sqm	330	18%	390
509	MA-BLD-HM-189	Float glass sheet of nominal thickness 5.5 mm.(weight not less than 13.50 kg/sqm).	sqm	520	18%	614
510	MA-BLD-HM-190	Chromium plated Brass pull bolt lock (locking bolt) of size 85 mmx42mm with screws, bolt	each	220	18%	260
511	MA-BLD-HM-191	Stainless steel Cylindrical lock	each	450	18%	531
512	MA-BLD-FL-1	20mm thk. Plain cement tile 250 x250mm	Sqm	280	18%	331
513	MA-BLD-FL-2	20mm thk. Gray Mosaic tile of size 250 x250mm	Sqm	377	18%	445
514	MA-BLD-FL-3	20mm thk. White/coloured Mosaic tile of size 250 x250	Sqm	431	18%	509
515	MA-BLD-FL-4	25mm thk. Gray Mosaic tile of size 300 x 300mm	Sqm	431	18%	509
516	MA-BLD-FL-5	25mm thk. White/coloured Mosaic tile of size 300 x300	Sqm	592	18%	699
517	MA-BLD-FL-7	25 to 30mm thk. Polished shahbad tile (Machine cut)	Sqm	389	5%	409
518	MA-BLD-FL-8	25 to 30mm thk. Polished Kadappa	Sqm	377	5%	396
519	MA-BLD-FL-9	25 to 30mm thk. Polished Tandur tile (Machine cut)	Sqm	280	5%	294
520	MA-BLD-FL-10	25 to 30mm thk. Polished Kota stone tile (Machine cut)	Sqm	325	5%	342
521	MA-BLD-FL-11	18mm thk. Green marble	Sqm	592	18%	699
522	MA-BLD-FL-12	18mm thk. White marble of superior quality	Sqm	592	18%	699
523	MA-BLD-FL-13	18mm thk. White marble of medium quality	Sqm	540	18%	638
524	MA-BLD-FL-14	18mm thk. White marble of lower quality	Sqm	492	18%	581
525	MA-BLD-FL-15	18mm thk. Yellow marble Jaisalmer Stone	Sqm	753	18%	889
526	MA-BLD-FL-16	18mm thk. Red / pink marble	Sqm	484	18%	572



Sr.No.	Material Code	Common Items	Unit	Final Rate 2017-18		
				Minimum Rate	GST %	Rate after GST
527	MA-BLD-FL-17	10 thk. Lakha Red Granite stone tiles	Sqm	875	18%	1033
528	MA-BLD-FL-18	15 to 18mm thk. Lakha Red Granite stone slab	Sqm	1750	18%	2065
529	MA-BLD-FL-19	15 to 20mm thk. Dholpur stone tile	Sqm	300	18%	354
530	MA-BLD-FL-20	25 to 35mm thk. Red sand stone tile	Sqm	450	18%	531
531	MA-BLD-FL-21	Colour Pigment	Kg	142	18%	168
532	MA-BLD-FL-22	100 wide Polished shahbad strip (Machine cut)	Rm	42	18%	50
533	MA-BLD-FL-23	100 wide Polished Kadappa stripe (Machine cut)	Rm	35	18%	42
534	MA-BLD-FL-24	100 wide Polished Tandur strip (Machine cut)	Rm	27	18%	32
535	MA-BLD-FL-25	100 wide Polished Kota strip (Machine cut)	Rm	33	18%	39
536	MA-BLD-FL-26	100 wide green marble strip (Machine cut)	Rm	40	18%	48
537	MA-BLD-FL-27	100 wide white marble strip (Machine cut)	Rm	38	18%	45
538	MA-BLD-FL-28	100 wide Yellow marble Jaisalmer stone strip (Machine cut)	Rm	60	18%	71
539	MA-BLD-FL-29	100 wide Red/Pink marble strip (Machine cut)	Rm	38	18%	45
540	MA-BLD-FL-30	100 wide Lakha Red Granite strip (Machine cut)	Rm	475	18%	561
541	MA-BLD-FL-31	25 to 30mm thk. Rough Shahbad Stone tiles	Sqm	170	5%	179
542	MA-BLD-FL-32	25 to 30mm thk. Rough Kadappa Stone tiles	Sqm	366	5%	385
543	MA-BLD-FL-33	25 to 30mm thk. Rough Tandur Stone tiles	Sqm	270	5%	284
544	MA-BLD-FL-34	25 to 30mm thk. Rough Kota Stone tiles	Sqm	300	5%	315
545	MA-BLD-FL-35	25 to 30mm thk. Rough Lakha Red Granite Stone slab	Sqm	2425	18%	2862
546	MA-BLD-FL-36	50mm thk. Jaipur red sand stone	Sqm	2150	5%	2258
547	MA-BLD-FL-37	25 to 30mm thk. Both side polished kadappa stone	Sqm	452	5%	475
548	MA-BLD-FL-38	6 thk. Light coloured glazed ceramic tile	Sqm	333.2372	18%	394
549	MA-BLD-FL-39	6 thk. Dark coloured glazed ceramic tile	Sqm	333.2372	18%	394
550	MA-BLD-FL-40	6 thk. Light coloured antiskid ceramic tile	Sqm	333.2372	18%	394
551	MA-BLD-FL-41	6 thk. Dark coloured antiskid ceramic tile	Sqm	333.2372	18%	394
552	MA-BLD-FL-42	8 thk. Light coloured glazed ceramic tile	Sqm	534.5568	18%	631
553	MA-BLD-FL-43	8 thk. Dark coloured glazed ceramic tile	Sqm	534.5568	18%	631
554	MA-BLD-FL-44	8 thk. Light coloured antiskid ceramic tile	Sqm	534.5568	18%	631
555	MA-BLD-FL-45	8 thk. Dark coloured antiskid ceramic tile	Sqm	534.5568	18%	631
556	MA-BLD-FL-46	8 mm thk. Light coloured glazed vitrified tile	Sqm	469	18%	554
557	MA-BLD-FL-47	8 mm thk. Dark coloured glazed vitrified tile	Sqm	469	18%	554



Sr.No.	Material Code	Common Items	Unit	Final Rate 2017-18		
				Minimum Rate	GST %	Rate after GST
558	MA-BLD-FL-48	8 mm thk. Light coloured antiskid vitrified tile	Sqm	469	18%	554
559	MA-BLD-FL-49	8 mm thk. Dark coloured antiskid vitrified tile	Sqm	469	18%	554
560	MA-BLD-FL-50	10 mm thk. Light coloured glazed vitrified tile	Sqm	578	18%	683
561	MA-BLD-FL-51	10 mm thk. Dark coloured glazed vitrified tile	Sqm	578	18%	683
562	MA-BLD-FL-52	10 mm thk. Light coloured antiskid vitrified tile	Sqm	578	18%	683
563	MA-BLD-FL-53	10 mm thk. Dark coloured antiskid vitrified tile	Sqm	578	18%	683
564	MA-BLD-FL-54	10 to 13mm thk. Heavy duty vitrified tile flooring	Sqm	560	18%	661
565	MA-BLD-FL-55	25 to 30mm thk. Gray cement chequered tile	Sqm	333	18%	393
566	MA-BLD-FL-56	25 to 30mm thk. Coloured cement chequered tile	Sqm	312	18%	369
567	MA-BLD-FL-57	25 to 30mm thk. Gray marble misaic chequered tile	Sqm	431	18%	509
568	MA-BLD-FL-58	25 to 30mm thk. Coloured marble misaic chequered tile	Sqm	624	18%	737
569	MA-BLD-FL-59	15mm thk. acid proof tiles	Sqm	840	18%	992
570	MA-BLD-FL-60	Acid proof cement	M.T.	12000	18%	14160
571	MA-BLD-FL-61	Metallic Floor hardner	Kg	8	18%	10
572	MA-BLD-FL-62	lornite non metallic hardner	Kg	10	18%	13
573	MA-BLD-FL-63	Marble chips 1 to 4 mm thk.	Kg	6	18%	8
574	MA-BLD-FL-64	Marble chips 4 to 7 mm thk.	Kg	6	18%	8
575	MA-BLD-FL-65	Marble chips 7 to 10 mm thk.	Kg	6	18%	8
576	MA-BLD-FL-66	Marble Powder	Cum	200	18%	236
577	MA-BLD-FL-67	3.15mm thk. x 35 wide Aluminum strip	Rm	11	18%	13
578	MA-BLD-FL-68	3.15mm thk. x 35 wide Brass strip	Rm	16	18%	19
579	MA-BLD-FL-69	4mm thk. x 35 wide glass strip	Rm	5	18%	6
580	MA-BLD-FL-70	50 thk. Interlocking blocks	Sqm	190	18%	225
581	MA-BLD-FL-71	Araldite adhesive	Kg	430	18%	508
582	MA-BLD-FL-72	Blue Basalt stone of size 0.4 x 0.4 x 0.15	No.	292	5%	307
583	MA-BLD-FL-73	Precast Concrete block of size 0.4 x 0.4 x 0.15	No.	42	18%	50
584	MA-BLD-FL-74	20 to 25mm thk. Jet Black Granite stone for plaque of inauguration	Sqm	1900	18%	2242
585	MA-BLD-FL-75	20 to 25mm thk. Granite stone / white marble of superior quality for plaque of inauguration	Sqm	2045	18%	2414
586	MA-BLD-FL-76	Glass mosaic tiles	Sqm	350	18%	413
587	MA-BLD-FL-77	18 mm thk. Ruby red, jet black Granite slab	Sqm	900	18%	1062
588	MA-BLD-FL-78	18 mm thk. Steel Gray Granite slab	Sqm	900	18%	1062



Sr.No.	Material Code	Common Items	Unit	Final Rate 2017-18		
				Minimum Rate	GST %	Rate after GST
589	MA-BLD-FL-79	100 wide Ruby red, jet black, Granite strip (Machine cut)	Sqm	422	18%	498
590	MA-BLD-FL-80	100 wide steel gray Granite strip (Machine cut)	Sqm	965	18%	1139
591	MA-BLD-FL-81	25 to 30 mm thk. rough Ruby red, jet black, Hasan green Granite slab	Sqm	1399	18%	1651
592	MA-BLD-FL-82	25 to 30mm thk. rough Steel Gray Granite slab	Sqm	1400	18%	1652
593	MA-BLD-FL-83	Glass tiles (Vitrum tiles or equivalent)	Sqm	900	18%	1062
594	MA-BLD-FL-84	Glass bricks	No.	82	18%	97
595	MA-BLD-FL-85	2mm thick Antistatic Vinyl flooring in roll form	Sqm	180	18%	213
596	MA-BLD-FL-86	Antibacterial tiles	Sqm	400	18%	472
597	MA-BLD-FL-88	Laticrete 252 Ag Silver	Kg	35	18%	42
598	MA-BLD-FL-89	Latapoxy 300	Kg	56	18%	67
599	MA-BLD-FL-90	Fevicol SR 505 Adhesive or equivalent	Lit	240	18%	284
600	MA-BLD-FL-91	Epoxy grout for glass tiles in wet areas	Kg	120	18%	142
601	MA-BLD-FL-92	Glass block adhesive	Kg	167	18%	198
602	MA-BLD-HW-01	Diesel oil	litre	61	0%	61
603	MA-BLD-HW-04	Carriage of Rubbish	cum	100	18%	118
604	C-MA-BLD-HW-5	Unslaked lime	quintal	600	18%	708
605	MA-BLD-HW-07	Bolts and nuts up to 300 mm in length	quintal	5970	18%	7045
606	MA-BLD-HW-08	Surkhi	Cum	670	18%	791
607	MA-BLD-HW-10	Double coupler	each	120	18%	142
608	MA-BLD-HW-11	Spigot for standard jointing	One Kg	58	18%	69
609	MA-BLD-HW-12	Base Jack	Each	275	18%	325
610	MA-BLD-HW-13	Challies	Each	1100	18%	1298
611	MA-BLD-HW-14	Cup Locks	Each	1010	18%	1192
612	MA-BLD-HW-15	Stone cleaning chemical approved by ASI	One Litre	100	18%	118
613	MA-BLD-HW-16	Water repellent chemical approved by ASI	One Litre	1930	18%	2278
614	MA-BLD-HW-17	Stone surface strengthening chemical approved by ASI	One Litre	600	18%	708
615	MA-BLD-HW-18	Turpentine oil	One Litre	55	18%	65
616	MA-BLD-HW-19	Liquid Ammonia 5%	One Litre	60	18%	71
617	MA-BLD-HW-20	Sodium pentachlorophenate	One Kg	356	18%	421
618	MA-BLD-MW-04	Mild steel flat strap fitting	quintal	3850	18%	4543
619	MA-BLD-MW-05	Common burnt clay F.P.S.(non modular) bricks tile class designation 10	1000 Nos	4500	5%	4725



Sr.No.	Material Code	Common Items	Unit	Final Rate 2017-18		
				Minimum Rate	GST %	Rate after GST
620	MA-BLD-MW-06	Common burnt clay modular bricks class designation 12.5	1000 Nos	4500	5%	4725
621	MA-BLD-MW-07	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 Nos	4500	5%	4725
622	MA-BLD-MW-09	Common burnt clay F.P.S. clay fly ash bricks class designation 7.5	1000 Nos	3900	5%	4095
623	MA-BLD-MW-11	Fly ash lime bricks (FALG Bricks) conforming to I.S. 12894-1989	1000 Nos	5500	5%	5775
624	MA-BLD-MW-12	Calcium Silicate Bricks machine moulded confirming to I.S. 4139 - 1989	1000 Nos	6700	5%	7035
625	MA-BLD-MW-13	Common burnt clay Modular bricks of class designation 7.5	1000 Nos	4500	5%	4725
626	MA-BLD-MW-14	Machine moulded perforated FPS (non modular) bricks of class designation 12.5	1000 Nos	4500	5%	4725
627	MA-BLD-MW-15	Machine moulded modular perforated bricks of class designation 12.5	1000 Nos	4500	5%	4725
628	MA-BLD-MW-16	Machine moulded common burnt clay F.P.S. (non modular) bricks of class designation 12.5	1000 Nos	4500	5%	4725
629	MA-BLD-MW-17	Machine moulded tile bricks of class designation 12.5	1000 Nos	5134	5%	5391
630	MA-BLD-MW-18	Autoclaved aerated cement (AAC) blocks.	cum	2901	12%	3250
631	MA-BLD-MW-19	Mechanised Autoclaved fly ash sand lime non modular bricks.	1000 Nos	5650	18%	6667
632	MA-BLD-MW-20	Red sand stone gang saw cut 30mm thick.	sqm	1775	18%	2095
633	MA-BLD-MW-21	White sand stone gang saw cut 30mm thick.	sqm	1990	18%	2349
634	MA-BLD-MW-22	Stainless steel cramps with nuts, bolts and washer for dry stone cladding .	each	90	18%	107
635	MA-BLD-PL-003	Anticorrosive bituminous paint (black)	litre	95	28%	122
636	MA-BLD-PL-004	Enamel paint	litre	134	28%	172
637	MA-BLD-PL-005	Synthetic enamel paint in black or chocolate shade	litre	129	28%	165
638	MA-BLD-PL-007	Synthetic enamel paint in all shades except black or chocolate shade	litre	129	28%	165
639	MA-BLD-PL-008	C.I. bracket for wash basin and sinks	pair	70	18%	83
640	MA-BLD-PL-009	C.P.brass chain with 40 mm dia rubber plug	each	80	18%	95
641	MA-BLD-PL-011	Clamps and M.S. stays including bolts and nuts for 100 mm pipe	each	15	18%	18
642	MA-BLD-PL-012	M.S.Holder bat clamp of approved design for 100 mm S.C.I. pipe	each	13	18%	16
643	MA-BLD-PL-013	M.S.Holder bat clamp of approved design for 75 mm S.C.I. pipe	each	10	18%	12
644	MA-BLD-PL-014	Clamps and M.S. stays including bolts and nuts for 50 mm pipe	each	13	18%	16
645	MA-BLD-PL-015	Clamps and M.S. stays including bolts and nuts for 75 mm pipe	each	40	18%	48
646	MA-BLD-PL-016	Mosquito proof coupling of approved design (PVC)	each	40	18%	48
647	MA-BLD-PL-017	Vitreous china foot rests 250x130x30 mm	pair	120	18%	142
648	MA-BLD-PL-018	S.C.I. gully or nahani grating 100 mm dia	each	615	18%	726
649	MA-BLD-PL-019	Rubber insertions for 80 mm dia pipe joints	each	18	18%	22
650	MA-BLD-PL-020	Rubber insertions for 100 mm dia pipe joints	each	20	18%	24



Sr.No.	Material Code	Common Items	Unit	Final Rate 2017-18		
				Minimum Rate	GST %	Rate after GST
651	MA-BLD-PL-021	Mirror of superior make glass 60x45 cm	each	450	18%	531
652	MA-BLD-PL-022	Vitreous china pedestal for wash basin	each	780	18%	921
653	C-MA-BLD-PL-23	Pig lead	kilogram	95	18%	113
654	MA-BLD-PL-024	Flush pipe with union spreaders and clamps all in C.P. brass for single stall	each	301	18%	356
655	MA-BLD-PL-025	Flush pipe with union spreaders and clamps all in C.P. brass for two half Stall	each	460	18%	543
656	MA-BLD-PL-026	Flush pipe with union spreaders and clamps all in C.P. brass for three half Stall	each	460	18%	543
657	MA-BLD-PL-027	Flush pipe with union spreaders and clamps all in C.P. brass for four half Stall	each	460	18%	543
658	MA-BLD-PL-028	Flush pipe and spreaders G.I.for single set of one squatting plate urinal each	each	210	18%	248
659	MA-BLD-PL-029	Flush pipe and spreaders G.I.for range of two squatting plates urinal	each	430	18%	508
660	MA-BLD-PL-030	Flush pipe and spreaders G.I.for range of three squatting plates urinal	each	340	18%	402
661	MA-BLD-PL-031	Flush pipe and spreaders G.I.for range of four squatting plates urinal	each	279	18%	330
662	MA-BLD-PL-032	G.I. inlet connection	each	81	18%	96
663	MA-BLD-PL-033	S.C.I. soil, waste and vent single socketed pipe 1.80 metres long: 75mm dia	each	1076	18%	1270
664	MA-BLD-PL-034	S.C.I. soil, waste and vent single socketed pipe 1.80 metres long: 100mm dia	each	1320	18%	1558
665	MA-BLD-PL-035	S.C.I. plain bend 75mm dia	each	236	18%	279
666	MA-BLD-PL-036	S.C.I. plain bend 100mm dia	each	348	18%	411
667	MA-BLD-PL-037	S.C.I. bend with access door 75mm dia	each	288	18%	340
668	MA-BLD-PL-038	S.C.I. bend with access door 100mm dia	each	400	18%	472
669	MA-BLD-PL-039	S.C.I. plain single equal junctions 75x75x75 mm dia	each	480	18%	567
670	MA-BLD-PL-040	S.C.I. plain single equal junctions 100x100x100 mm dia	each	656	18%	775
671	MA-BLD-PL-041	S.C.I. single equal junctions 75x75x75 mm dia with access door.	each	488	18%	576
672	MA-BLD-PL-042	S.C.I. single equal junctions 100x100x100 mm dia with access door.	each	565	18%	667
673	MA-BLD-PL-043	S.C.I. plain double equal junctions 75x75x75 mm dia	each	560	18%	661
674	MA-BLD-PL-044	S.C.I. plain double equal junctions 100x100x100 mm dia	each	770	18%	909
675	MA-BLD-PL-045	S.C.I. double equal junctions 75x75x75 mm dia with access door.	each	640	18%	756
676	MA-BLD-PL-046	S.C.I. double equal junctions 100x100x100 mm dia with access door	each	850	18%	1003
677	MA-BLD-PL-047	Slotted cowl (terminal guard) 75 mm dia -CI	each	228	18%	270
678	MA-BLD-PL-048	Slotted cowl (terminal guard) 100 mm dia -CI	each	288	18%	340
679	MA-BLD-PL-049	Sand cast iron S&S plain single unequal junctions : 100x100x75 mm dia	each	415	18%	490
680	MA-BLD-PL-050	Sand cast iron S&S single unequal junctions: 100x100x75 mm dia with access door.	each	560	18%	661
681	MA-BLD-PL-051	Sand cast iron S&S plain double unequal junctions : 100x100x75 mm dia	each	670	18%	791



Sr.No.	Material Code	Common Items	Unit	Final Rate 2017-18		
				Minimum Rate	GST %	Rate after GST
682	MA-BLD-PL-052	Sand cast iron S&S double unequal junctions: 100x100x75x75 mm dia with access door.	each	697	18%	823
683	MA-BLD-PL-053	Sand cast iron heel rest bend 75mm dia	each	310	18%	366
684	MA-BLD-PL-054	Sand cast iron heel rest bend 100mm dia	each	420	18%	496
685	MA-BLD-PL-055	S.C.I. single equal invert branch of required degree 75x75x75 mm dia	each	389	18%	460
686	MA-BLD-PL-056	S.C.I. single equal invert branch of required degree 100x100x100 mm dia	each	469	18%	554
687	MA-BLD-PL-057	S.C.I. double equal invert branch of required degree 75x75x75x75 mm dia	each	482	18%	569
688	MA-BLD-PL-058	S.C.I. double equal invert branch of required degree 100x100x100x100 mm dia	each	610	18%	720
689	MA-BLD-PL-059	S.C.I. single unequal invert branch of required degree 100x100x75 mm dia	each	589	18%	696
690	MA-BLD-PL-060	S.C.I. double unequal invert branch of required degree 100x100x75x75 mm dia	each	680	18%	803
691	MA-BLD-PL-061	S.C.I. door pieces 75 mm dia	each	288	18%	340
692	MA-BLD-PL-062	S.C.I. door pieces 100 mm dia	each	400	18%	472
693	MA-BLD-PL-063	S.C.I. collar 75 mm dia	each	215	18%	254
694	MA-BLD-PL-064	S.C.I. collar 100 mm dia	each	166	18%	196
695	MA-BLD-PL-065	Fire clay kitchen sink: 600x450x250 mm	each	2015	18%	2378
696	MA-BLD-PL-066	White vitreous china laboratory sink 450x300x150 mm	each	1291	18%	1524
697	MA-BLD-PL-067	White vitreous china laboratory sink 600x450x200 mm	each	2000	18%	2360
698	MA-BLD-PL-068	White plastic seat (solid) with lid C.P. brass hinges and rubber buffers	each	466	18%	550
699	MA-BLD-PL-069	Black plastic seat (solid) with lid C.P. brass hinges and rubber buffers	each	466	18%	550
700	C-MA-BLD-PL-70	Spun yarn	kilogram	125	18%	148
701	MA-BLD-PL-071	15 mm C.P. brass tap	each	300	18%	354
702	MA-BLD-PL-072	C.P. brass toilet paper holder of standard size	each	650	18%	767
703	MA-BLD-PL-073	C.I. trap for standard urinal with vent arm with operating and other couplings in C.P. brass -50 mm	each	220	18%	260
704	MA-BLD-PL-074	C.I. trap for standard urinal with vent arm with operating and other couplings in C.P. brass -80mm	each	250	18%	295
705	MA-BLD-PL-075	C.P. brass trap 40 mm dia	each	191	18%	226
706	MA-BLD-PL-076	100 mm S.C.I. trap with vent heel	each	375	18%	443
707	MA-BLD-PL-077	100 mm S.C.I. trap with 100 mm inlet and 100 mm outlet	each	350	18%	413
708	MA-BLD-PL-078	100 mm S.C.I. trap with 100 mm inlet and 75 mm outlet	each	640	18%	756
709	MA-BLD-PL-079	Vitreous china lipped front urinal	each	1110	18%	1310
710	MA-BLD-PL-080	Vitreous china squatting plate urinal	each	1441	18%	1700
711	MA-BLD-PL-081	Vitreous china flat back wash basin 630x450 mm	each	1110	18%	1310
712	MA-BLD-PL-082	Vitreous china angle back wash basin 600x480 mm	each	950	18%	1121



Sr.No.	Material Code	Common Items	Unit	Final Rate 2017-18		
				Minimum Rate	GST %	Rate after GST
713	MA-BLD-PL-083	Vitreous china angle back wash basin 400x400 mm	each	789	18%	932
714	MA-BLD-PL-084	C.P. brass waste 32 mm	each	115	18%	136
715	MA-BLD-PL-085	C.P. brass waste 40 mm	each	175	18%	207
716	MA-BLD-PL-086	Vitreous china Indian type w.c. pan size 580 mm	each	1788	18%	2111
717	MA-BLD-PL-087	Vitreous china orrisa type w.c. pan size 580 mm	each	1216	18%	1435
718	MA-BLD-PL-088	Vitreous china pedestal type water closet	each	1462	18%	1726
719	MA-BLD-PL-089	White vitreous china dual purpose closet (Anglo Indian W.C.) suitable for use as squatting	each	1897	18%	2239
720	MA-BLD-PL-090	Vitreous china foot rests 250x125x25 mm	pair	180	18%	213
721	MA-BLD-PL-091	Vitreous china Surgeon type wash basin of size 660x460 mm	each	1530	18%	1806
722	MA-BLD-PL-092	600x120 mm glass shelf with anodised aluminium angle frame, C.P.brass brackets and guard r	each	160	18%	189
723	MA-BLD-PL-093	Vitreous china flat back wash basin 550x400 mm	each	789	18%	932
724	MA-BLD-PL-094	C.P. Brass union 40 mm dia	each	150	18%	177
725	MA-BLD-PL-095	C.C.I.(spun) socketed soil, waste and vent pipe 1.80 metres long:100mm dia	each	1443	18%	1703
726	MA-BLD-PL-096	C.C.I.(spun) socketed soil, waste and vent pipe 1.80 metres long:75mm dia	each	1197	18%	1413
727	MA-BLD-PL-097	S.C.I. S&S bends with access door 75mm dia	each	250	18%	295
728	MA-BLD-PL-098	S.C.I. S&S bend 100mm dia	each	290	18%	343
729	MA-BLD-PL-099	S.C.I. S&S bend 75mm dia	each	195	18%	231
730	MA-BLD-PL-100	S.C.I. S&S heel rest sanitary bend 100mm dia	each	535	18%	632
731	MA-BLD-PL-101	S.C.I. S&S heel rest sanitary bend 75mm dia	each	390	18%	461
732	MA-BLD-PL-102	S.C.I. S&S single equal junctions 100x100x100 mm	each	780	18%	921
733	MA-BLD-PL-103	S.C.I. S&S single equal junctions 75x75x75 mm	each	550	18%	649
734	MA-BLD-PL-104	S.C.I. S&S single equal junctions with access door 100x100x100 mm	each	860	18%	1015
735	MA-BLD-PL-105	S.C.I. S&S single equal junctions with access door 75x75x75 mm	each	590	18%	697
736	MA-BLD-PL-106	S.C.I. S&S double equal junctions 100x100x100x100 mm	each	960	18%	1133
737	MA-BLD-PL-107	S.C.I. S&S double equal junctions 75x75x75x75 mm	each	690	18%	815
738	MA-BLD-PL-108	S.C.I. S&S double equal junctions with access door 100x100x100x100 mm.	each	1045	18%	1234
739	MA-BLD-PL-109	S.C.I. S&S double equal junctions with access door 75x75x75x75 mm	each	700	18%	826
740	MA-BLD-PL-110	S.C.I. S&S single unequal junctions 100x100x75 mm	each	1045	18%	1234
741	MA-BLD-PL-111	S.C.I. S&S single unequal junctions with access door	each	1090	18%	1287
742	MA-BLD-PL-112	S.C.I. S&S double unequal junctions 100x100x75x75 mm	each	1470	18%	1735
743	MA-BLD-PL-113	S.C.I. S&S double unequal junctions with access door 100x100x75x75 mm	each	1520	18%	1794



Sr.No.	Material Code	Common Items	Unit	Final Rate 2017-18		
				Minimum Rate	GST %	Rate after GST
744	MA-BLD-PL-114	S.C.I. S&S single equal invert branch of required degree 100x100x100 mm dia	each	590	18%	697
745	MA-BLD-PL-115	S.C.I. S&S single equal invert branch of required degree 75x75x75 mm dia	each	950	18%	1121
746	MA-BLD-PL-116	S.C.I. S&S double equal invert branch of required degree 100x100x100 mm dia	each	697	18%	823
747	MA-BLD-PL-117	S.C.I. S&S double equal invert branch of required degree 75x75x75 mm dia	each	587	18%	693
748	MA-BLD-PL-118	S.C.I. S&S single unequal invert branch of required degree 100x100x75 mm dia	each	662	18%	782
749	MA-BLD-PL-119	S.C.I. S&S double unequal invert branch of required degree 100x100x75x75 mm dia	each	900	18%	1062
750	MA-BLD-PL-120	S.C.I. S&S, 75 mm offset for 75 mm dia pipe	each	310	18%	366
751	MA-BLD-PL-121	S.C.I. S&S, 150 mm offset for 75 mm dia pipe	each	390	18%	461
752	MA-BLD-PL-122	S.C.I. S&S, 150 mm offset for 100 mm dia pipe	each	443	18%	523
753	MA-BLD-PL-123	S.C.I. S&S, 114 mm offset for 75 mm dia pipe	each	320	18%	378
754	MA-BLD-PL-124	S.C.I. S&S, 114 mm offset for 100 mm dia pipe	each	360	18%	425
755	MA-BLD-PL-125	S.C.I. S&S, 152 mm offset for 75 mm dia pipe	each	564	18%	666
756	MA-BLD-PL-126	S.C.I. S&S, 152 mm offset for 100 mm dia pipe	each	623	18%	736
757	MA-BLD-PL-127	S.C.I S&S door pieces 100 mm dia	each	90	18%	107
758	MA-BLD-PL-128	S.C.I S&S door pieces 75 mm dia	each	60	18%	71
759	MA-BLD-PL-129	S.C.I S&S, Slotted Cowl (Terminal Guard) 100 mm	each	294	18%	347
760	MA-BLD-PL-130	S.C.I S&S, Slotted Cowl (Terminal Guard) 75 mm	each	256	18%	303
761	MA-BLD-PL-131	S.C.I S&S, collars 100 mm	each	244	18%	288
762	MA-BLD-PL-132	S.C.I S&S, collars 75 mm	each	228	18%	270
763	MA-BLD-PL-133	S.C.I. S&S, 76 mm offset for 75 mm dia pipe	each	310	18%	366
764	MA-BLD-PL-134	S.C.I. S&S, 76 mm offset for 100 mm dia pipe	each	360	18%	425
765	MA-BLD-PL-135	Vitreous china toilet paper holder of standard size	each	201	18%	238
766	MA-BLD-PL-136	Red oxide Zinc chromate primer	litre	90	18%	107
767	MA-BLD-PL-137	Vitreous china flat back wash basin 450x300 mm	each	686	18%	7670
768	MA-BLD-PL-138	Vitreous china 10 litres low level cistern with fittings	each	1085	18%	1280
769	MA-BLD-PL-140	Wall mounted water closet	Each	6500	18%	#REF!
770	MA-BLD-PL-141	Adjustable Vitrious China Cistern with fittings	Each	3100	18%	3658
771	MA-BLD-PL-142	White Vitrious China Waterless Urinal	Each	4486	18%	5294
772	MA-BLD-PL-143	Cistern with fittings for Waterless Urinal	Each	4100	18%	4838
773	MA-BLD-PL-144	White Vetrious Urinal (battery based infrared sensor operated - 610x390x370mm)	Each	15500	18%	18290
774	MA-BLD-PL-145	Stainless steel kitchen sink - with drain board bowl depth 250 mm.	each	8047	18%	9495



Sr.No.	Material Code	Common Items	Unit	Final Rate 2017-18		
				Minimum Rate	GST %	Rate after GST
775	MA-BLD-PL-146	Stainless steel kitchen sink - with drain board 510 x 1040mm bowl depth 225 mm.	each	6500	18%	7670
776	MA-BLD-PL-147	Stainless steel kitchen sink - with drain board 510 x 1040mm bowl depth 200 mm.	each	6280	18%	7410
777	MA-BLD-PL-148	Stainless steel kitchen sink - with drain board 510x1040mm bowldepth 178 mm	each	3500	18%	4130
778	MA-BLD-PL-149	Stainless steel kitchen sink - without drain board 610x510mm bowl depth 200 mm.	each	4822	18%	5690
779	MA-BLD-PL-150	Stainless steel kitchen sink - without drain board 610x460mm bowl depth 200 mm.	each	4369	18%	5155
780	MA-BLD-PL-151	Stainless steel kitchen sink - without drain board 470x420mm bowl depth 178 mm	each	3051	18%	3600
781	MA-BLD-PL-152	Coloured Orissa pattern W.C. pan 580x440 mm	each	1801	18%	2125
782	MA-BLD-PL-153	Coloured Pedestal type W.C. pan 580x440 mm (European type)	each	2280	18%	2690
783	MA-BLD-PL-154	Coloured (other than black) solid P.V.C. seat in European W.C. pan	each	610	18%	720
784	MA-BLD-PL-155	Circular shape 450 mm dia Mirror with Plastic moulded frame	each	489	18%	578
785	MA-BLD-PL-156	Rectangular shape 453x357 mm Mirror with Plastic moulded frame	each	340	18%	402
786	MA-BLD-PL-157	Oval shape 450x350 mm (outer dimensions) Mirror with Plastic moulded frame	each	380	18%	449
787	MA-BLD-PL-158	Rectangular shape 1500x450 mm Mirror with Plastic moulded frame	each	890	18%	1051
788	MA-BLD-PL-159	Hard board 6 mm thick	sqm	191	18%	226
789	MA-BLD-PL-160	Semi Rigid PVC waste pipe for sink and wash basin 32 mm dia with length not less than 700	each	20	18%	24
790	MA-BLD-PL-161	Semi Rigid PVC waste pipe for sink and wash basin 40 mm dia with mm dia with length not le	each	25	18%	30
791	MA-BLD-PL-162	Flexible (coil shaped) PVC waste pipe for sink and wash basin 32 mm dia with length not le	each	40	18%	48
792	MA-BLD-PL-163	Flexible (coil shaped) PVC waste pipe for sink and wash basin 40 mm dia with length not le	each	39	18%	47
793	MA-BLD-PL-164	Coloured High density polyethylene/ poly propylene 10 lit. (full flush) capacity controlle	each	823	18%	972
794	MA-BLD-PL-165	White Vitreous china 10 lit. (full flush) capacity controlled low level flushing cistern	each	1211	18%	1429
795	MA-BLD-PL-166	Coloured Vitreous china 10 lit. (full flush) capacity controlled low level flushing cister	each	1650	18%	1947
796	MA-BLD-PL-167	Flushing Cistern P.V.C. 10 lts capacity (low level) (White) (with fittings, accessorie	each	1263	18%	1491
797	MA-BLD-PL-168	P.V.C. automatic flushing cistern 5 lts capacity	each	612	18%	723
798	MA-BLD-PL-169	P.V.C. automatic flushing cistern 10 lts capacity	each	650	18%	767
799	MA-BLD-PL-170	15 mm C.P. brass tap with elbow operation lever	each	710	18%	838
800	MA-BLD-PL-171	White glazed fire clay draining board 600x450x25 mm	each	690	18%	815
801	MA-BLD-PL-172	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Single lipped urina	each	250	18%	295
802	MA-BLD-PL-173	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Range of two lipped	each	650	18%	767
803	MA-BLD-PL-174	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Range of three lipp	each	950	18%	1121
804	MA-BLD-PL-175	G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Range of four lippe	each	1450	18%	1711
805	MA-BLD-PL-176	White vitreous china clay half stall urinal flat back 580x380x350 mm or angle back 450x3	each	1500	18%	1770



Sr.No.	Material Code	Common Items	Unit	Final Rate 2017-18		
				Minimum Rate	GST %	Rate after GST
806	MA-BLD-PL-177	PTMT Waste Coupling 31/32MM	Each	90	18%	107
807	MA-BLD-PL-178	PTMT Waste Coupling 38/40MM	Each	140	18%	166
808	MA-BLD-PL-179	PTMT Bottle Trap 31/32MM	Each	280	18%	331
809	MA-BLD-PL-180	PTMT Bottle Trap 38/40MM	Each	250	18%	295
810	MA-BLD-PL-181	PTMT Liquid Soap Container of 400ml capacity	Each	210	18%	248
811	MA-BLD-PL-182	PTMT Towel Ring 215x200x37mm	Each	150	18%	177
812	MA-BLD-PL-183	PTMT Towel Rail (450MM)	Each	160	18%	189
813	MA-BLD-PL-184	PTMT Towel Rail (600MM)	Each	190	18%	225
814	MA-BLD-PL-185	PTMT Shelf 450x124x36mm	Each	330	18%	390
815	MA-BLD-PL-186	PTMT Urinal Spreader 15MM	Each	130	18%	154
816	MA-BLD-PL-187	Salem Stainless steel AISI - 304 (18/8) Orrisa pattern W.C. pan 724mm X 578mm	each	5784	18%	6826
817	MA-BLD-PL-188	Salem Stainless steel AISI - 304 (18/8) Round basin 405mm X 355mm	each	2010	18%	2372
818	MA-BLD-PL-189	Salem Stainless steel AISI - 304 (18/8) Wash basin 530mm X 345mm	each	2133	18%	2517
819	MA-BLD-PL-190	Centrifugally cast (spun) iron S&S 100 mm inlet and 100 mm outlet	each	591	18%	698
820	MA-BLD-PL-191	Centrifugally cast (spun) iron S&S 100 mm inlet and 75 mm outlet	each	510	18%	602
821	MA-BLD-PL-192	P.T.M.T. Urinal cock 15mm dia	each	160	18%	189
822	MA-BLD-PL-193	Bleaching powder	quintal	1720	18%	2030
823	MA-BLD-PL-194	Surface box for stop cock	each	130	18%	154
824	MA-BLD-PL-195	Surface box for sluice valve	each	243	18%	287
825	MA-BLD-PL-196	Brass bib-cock 15 mm dia	each	225	18%	266
826	MA-BLD-PL-197	Brass bib-cock 20 mm dia	each	325	18%	384
827	MA-BLD-PL-198	Brass stop-cock 15 mm dia	each	225	18%	266
828	MA-BLD-PL-199	Brass stop-cock 20 mm dia	each	325	18%	384
829	MA-BLD-PL-200	C.I.mouth, brass ferrule 15 mm dia	each	170	18%	201
830	MA-BLD-PL-201	C.I.mouth, brass ferrule 20 mm dia	each	189	18%	224
831	MA-BLD-PL-202	C.I.mouth, brass ferrule 25 mm dia	each	249	18%	294
832	MA-BLD-PL-203	Rubber insertions for 125 mm dia pipe joints	each	24	18%	29
833	MA-BLD-PL-204	Rubber insertions for 150 mm dia pipe joints	each	22	18%	26
834	MA-BLD-PL-205	Rubber insertions for 200 mm dia pipe joints	each	27	18%	32
835	MA-BLD-PL-206	Rubber insertions for 250 mm dia pipe joints	each	39	18%	47
836	MA-BLD-PL-207	Rubber insertions for 300 mm dia pipe joints	each	48	18%	57



Sr.No.	Material Code	Common Items	Unit	Final Rate 2017-18		
				Minimum Rate	GST %	Rate after GST
837	MA-BLD-PL-208	Rubber insertions for 350 mm dia pipe joints	each	55	18%	65
838	MA-BLD-PL-209	Rubber insertions for 400 mm dia pipe joints	each	90	18%	107
839	MA-BLD-PL-210	Rubber insertions for 450 mm dia pipe joints	each	111	18%	131
840	MA-BLD-PL-211	Rubber insertions for 500 mm dia pipe joints	each	130	18%	154
841	MA-BLD-PL-212	Rubber insertions for 600 mm dia pipe joints	each	150	18%	177
842	MA-BLD-PL-213	S & S.C.I. standard specials up to 300 mm dia (heavy class)	quintal	4111	18%	4851
843	MA-BLD-PL-214	S & S.C.I. standard specials over 300 mm dia (heavy class)	quintal	4555	18%	5375
844	MA-BLD-PL-215	Flanged C.I. standard specials up to 300 mm dia (heavy class)	quintal	6512	18%	7685
845	MA-BLD-PL-216	Flanged C.I. standard specials over 300 mm dia (heavy class)	quintal	6998	18%	8258
846	MA-BLD-PL-217	G.I. pipes 15 mm dia medium	metre	77	18%	91
847	MA-BLD-PL-218	G.I. pipes 20 mm dia	metre	97	18%	115
848	MA-BLD-PL-219	G.I. pipes 25 mm dia	metre	131	18%	155
849	MA-BLD-PL-220	G.I. pipes 32 mm dia	metre	167	18%	198
850	MA-BLD-PL-221	G.I. pipes 40 mm dia	metre	195	18%	230
851	MA-BLD-PL-222	G.I. pipes 50 mm dia	metre	264	18%	312
852	MA-BLD-PL-223	G.I. pipes 65 mm dia	metre	333	18%	393
853	MA-BLD-PL-224	G.I. pipes 80 mm dia	metre	427	18%	505
854	MA-BLD-PL-225	G.I. back (jam) nuts 25 mm dia	each	12.24	18%	15.00
855	MA-BLD-PL-226	G.I. back (jam) nuts 65 mm dia	each	45.90	18%	55.00
856	MA-BLD-PL-227	G.I. tees (equal) 25 mm	each	35.70	18%	43.00
857	MA-BLD-PL-228	G.I. tees (equal) 65 mm	each	196.86	18%	233.00
858	MA-BLD-PL-229	G.I. Union 15 mm nominal bore	each	28.77	18%	34.00
859	MA-BLD-PL-230	G.I. Union 20 mm nominal bore	each	39.78	18%	47.00
860	MA-BLD-PL-231	G.I. Union 25 mm nominal bore	each	54.06	18%	64.00
861	MA-BLD-PL-232	G.I. Union 32 mm nominal bore	each	81.60	18%	97.00
862	MA-BLD-PL-233	G.I. Union 40 mm nominal bore	each	99.45	18%	118.00
863	MA-BLD-PL-234	G.I. Union 50 mm nominal bore	each	153.00	18%	181.00
864	MA-BLD-PL-235	G.I. Union 65 mm nominal bore	each	286.62	18%	339.00
865	MA-BLD-PL-236	G.I. Union 80 mm nominal bore	each	397.29	18%	469.00
866	MA-BLD-PL-237	Polyethylene water storage tank with cover and suitable locking arrangement	per litre	4	18%	5
867	MA-BLD-PL-238	Unplasticised P.V.C. connection pipe with brass union 30 cm long 15 mm bore	each	35	18%	42



Sr.No.	Material Code	Common Items	Unit	Final Rate 2017-18		
				Minimum Rate	GST %	Rate after GST
868	MA-BLD-PL-239	Unplasticised P.V.C. connection pipe with brass union 30 cm long 20 mm bore	each	47	18%	56
869	MA-BLD-PL-240	Unplasticised P.V.C. connection pipe with brass union 45 cm long 15 mm bore	each	47	18%	56
870	MA-BLD-PL-241	Unplasticised P.V.C. connection pipe with brass union 45 cm long 20 mm bore	each	56	18%	67
871	MA-BLD-PL-242	S.C.I. hand pump	each	676	18%	798
872	MA-BLD-PL-243	Shower rose C.P.brass for 15 to 20 mm inlet 100 mm dia	each	300	18%	354
873	MA-BLD-PL-244	Shower rose C.P.brass for 15 to 20 mm inlet 150 mm dia	each	550	18%	649
874	MA-BLD-PL-245	Strainer brass 40 mm dia 1.5 metre long	each	765	18%	903
875	MA-BLD-PL-246	H.P. or L.P. ball valve with polythene floats: 15 mm dia	each	267	18%	316
876	MA-BLD-PL-247	H.P. or L.P. ball valve with polythene floats: 20 mm dia	each	356	18%	421
877	MA-BLD-PL-248	H.P. or L.P. ball valve with polythene floats: 25 mm dia	each	398	18%	470
878	MA-BLD-PL-249	Brass full way valve with C.I. wheel (screwed end) 25 mm dia	each	420	18%	496
879	MA-BLD-PL-250	Brass full way valve with C.I. wheel (screwed end) 32 mm dia	each	650	18%	767
880	MA-BLD-PL-251	Brass full way valve with C.I. wheel (screwed end) 40 mm dia	each	900	18%	1062
881	MA-BLD-PL-252	Brass full way valve with C.I. wheel (screwed end) 50 mm dia	each	1500	18%	1770
882	MA-BLD-PL-253	Brass full way valve with C.I. wheel (screwed end) 65 mm dia	each	2800	18%	3304
883	MA-BLD-PL-254	Brass full way valve with C.I. wheel (screwed end) 80 mm dia	each	6000	18%	7080
884	MA-BLD-PL-261	C.I.sluiice valve (with caps) class I : 100 mm dia	each	4900	18%	5782
885	MA-BLD-PL-262	C.I.sluiice valve (with caps) class I : 125 mm dia	each	6000	18%	7080
886	MA-BLD-PL-263	C.I.sluiice valve (with caps) class I : 150 mm dia	each	7000	18%	8260
887	MA-BLD-PL-264	C.I.sluiice valve (with caps) class I : 200 mm dia	each	11000	18%	12980
888	MA-BLD-PL-265	C.I.sluiice valve (with caps) class I : 250 mm dia	each	18000	18%	21240
889	MA-BLD-PL-266	C.I.sluiice valve (with caps) class I : 300 mm dia	each	21500	18%	25370
890	MA-BLD-PL-267	Bolts and nuts 16 mm dia 60 mm long	each	7	18%	8
891	MA-BLD-PL-268	Bolts and nuts 16 mm dia 65 mm long	each	7	18%	9
892	MA-BLD-PL-269	Bolts and nuts 20 mm dia 65 mm long	each	12	18%	15
893	MA-BLD-PL-270	Bolts and nuts 20 mm dia 70 mm long	each	14	18%	17
894	MA-BLD-PL-271	Bolts and nuts 20 mm dia 75 mm long	each	15	18%	18
895	MA-BLD-PL-272	Bolts and nuts 20 mm dia 80 mm long	each	15	18%	19
896	MA-BLD-PL-273	Bolts and nuts 24 mm dia 85 mm long	each	26	18%	31
897	MA-BLD-PL-274	Bolts and nuts 24 mm dia 90 mm long	each	28	18%	33
898	MA-BLD-PL-275	Bolts and nuts 27 mm dia 100 mm long	each	29	18%	35



Sr.No.	Material Code	Common Items	Unit	Final Rate 2017-18		
				Minimum Rate	GST %	Rate after GST
899	MA-BLD-PL-283	C.I.sluiice valve (with caps) class II : 125 mm dia	each	19622	18%	23154
900	MA-BLD-PL-284	C.I.sluiice valve (with caps) class II : 150 mm dia	each	17961	18%	21194
901	MA-BLD-PL-285	C.I.sluiice valve (with caps) class II : 200 mm dia	each	29271	18%	34541
902	MA-BLD-PL-286	C.I.sluiice valve (with caps) class II : 250 mm dia	each	43092	18%	50849
903	MA-BLD-PL-287	C.I.sluiice valve (with caps) class II : 300 mm dia	each	55210	18%	65148
904	MA-BLD-PL-288	15 mm Battery Based Sensor Pillar Cock	Each	7997	18%	9437
905	MA-BLD-PL-290	C.P. Brass bibcock 15 mm	each	450	18%	531
906	MA-BLD-PL-291	C.P. Brass long nose bibcock 15 mm	each	530	18%	626
907	MA-BLD-PL-292	C.P. Brass long body bibcock 15 mm	each	540	18%	638
908	MA-BLD-PL-293	C.P. Brass stop cock (concealed) 15 mm	each	699	18%	825
909	MA-BLD-PL-294	C.P. Brass angle valve 15 mm	each	564	18%	665
910	MA-BLD-PL-295	15 mm PTMT bib cock	each	256	18%	303
911	MA-BLD-PL-296	15 mm PTMT bib cock with flange (fancy)	each	150	18%	177
912	MA-BLD-PL-297	15 mm PTMT bib cock long body with flange	each	250	18%	295
913	MA-BLD-PL-298	15 mm dia PTMT stop cock(male thread)	each	190	18%	225
914	MA-BLD-PL-299	20 mm dia. PTMT stop cock	each	350	18%	413
915	MA-BLD-PL-300	PTMT pillar cock	each	190	18%	225
916	MA-BLD-PL-301	PTMT push cock 15 mm dia.	each	190	18%	225
917	MA-BLD-PL-302	PTMT push cock 12 mm dia. 20 mm BSP	each	186	18%	220
918	MA-BLD-PL-303	PTMT grating 100 mm dia.	each	10	18%	12
919	MA-BLD-PL-304	PTMT Pillar cock (fancy) 15mm foam flow	Each	360	18%	425
920	MA-BLD-PL-305	125 mm grating with waste hole	each	50	18%	59
921	MA-BLD-PL-306	Rectangular type with openable circular lid 150 mm size 18 mm high with 100 mm dia. (110 gm)	each	141	18%	167
922	MA-BLD-PL-307	Double acting air valve 50 mm	each	6500	18%	7670
923	MA-BLD-PL-308	Double acting air valve 80 mm	each	9000	18%	10620
924	MA-BLD-PL-309	Double acting air valve 100 mm	each	12000	18%	14160
925	MA-BLD-PL-310	Water meter (including testing charges) 80 mm	each	13500	18%	15930
926	MA-BLD-PL-311	Water meter (including testing charges) 100 mm	each	17000	18%	20060
927	MA-BLD-PL-312	Water meter (including testing charges) 150 mm	each	25000	18%	29500
928	MA-BLD-PL-313	Water meter (including testing charges) 200 mm	each	33000	18%	38940
929	MA-BLD-PL-314	Dirt box strainer 80 mm	each	3112	18%	3673



Sr.No.	Material Code	Common Items	Unit	Final Rate 2017-18		
				Minimum Rate	GST %	Rate after GST
930	MA-BLD-PL-315	Dirt box strainer 100 mm	each	4998	18%	5898
931	MA-BLD-PL-316	Dirt box strainer 150 mm	each	6656	18%	7855
932	MA-BLD-PL-317	Dirt box strainer 200 mm	each	9871	18%	11648
933	MA-BLD-PL-318	PTMT Ball Cock 15mm Complete with Epoxy Coated Aluminium Road & H.D. Ball	each	190	18%	225
934	MA-BLD-PL-319	PTMT Ball Cock 20mm Complete with Epoxy Coated Aluminium Road & H.D. Ball	each	380	18%	449
935	MA-BLD-PL-320	PTMT Ball Cock 25mm Complete with Epoxy Coated Aluminium Road & H.D. Ball	each	570	18%	673
936	MA-BLD-PL-321	PTMT Ball Cock 40mm Complete with Epoxy Coated Aluminium Road &	each	1120	18%	1322
937	MA-BLD-PL-322	PTMT Ball Cock 50mm Complete with Epoxy Coated Aluminium Road & H.D. Ball	each	1700	18%	2006
938	MA-BLD-PL-323	PTMT Angle Stop cock with Flange 15mm	Each	350	18%	413
939	MA-BLD-PL-324	PTMT Swiveling shower 15mm	Each	160	18%	189
940	MA-BLD-PL-325	PTMT Soap Dish/Holder 138x102x75mm	Each	280	18%	331
941	MA-BLD-PL-326	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 100mm dia	Metre	785	18%	926
942	MA-BLD-PL-327	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 150mm dia	Metre	1123	18%	1325
943	MA-BLD-PL-328	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 250mm dia	Metre	1730	18%	2041
944	MA-BLD-PL-329	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 300mm dia	Metre	2319	18%	2737
945	MA-BLD-PL-330	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 350mm dia	Metre	2910	18%	3434
946	MA-BLD-PL-331	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 400mm dia	Metre	3501	18%	4132
947	MA-BLD-PL-332	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 450mm dia	Metre	4240	18%	5004
948	MA-BLD-PL-333	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 500mm dia	Metre	5021	18%	5925
949	MA-BLD-PL-334	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 600mm dia	Metre	5957	18%	7030
950	MA-BLD-PL-335	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 700mm dia	Metre	7581	18%	8947
951	MA-BLD-PL-336	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 750mm dia	Metre	9608	18%	11339
952	MA-BLD-PL-337	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 800mm dia	Metre	11042	18%	13030
953	MA-BLD-PL-338	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 900mm dia	Metre	13123	18%	15486
954	MA-BLD-PL-339	Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 1000mm dia	Metre	16074	18%	18967
955	MA-BLD-PL-340	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 100mm dia	Each	37	18%	45
956	MA-BLD-PL-341	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 150mm dia	Each	55	18%	66
957	MA-BLD-PL-342	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 200mm dia	Each	70	18%	83
958	MA-BLD-PL-343	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 250mm dia	Each	87	18%	103
959	MA-BLD-PL-344	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 300mm dia	Each	146	18%	172
960	MA-BLD-PL-345	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 350mm dia	Each	167	18%	198



Sr.No.	Material Code	Common Items	Unit	Final Rate 2017-18		
				Minimum Rate	GST %	Rate after GST
961	MA-BLD-PL-346	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 400mm dia	Each	258	18%	304
962	MA-BLD-PL-347	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 450mm dia	Each	290	18%	343
963	MA-BLD-PL-348	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 500mm dia	Each	367	18%	434
964	MA-BLD-PL-349	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 600mm dia	Each	560	18%	662
965	MA-BLD-PL-350	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 700mm dia	Each	1000	18%	1181
966	MA-BLD-PL-351	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 750mm dia	Each	1020	18%	1204
967	MA-BLD-PL-352	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 800mm dia	Each	1077	18%	1272
968	MA-BLD-PL-353	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 900mm dia	Each	1360	18%	1605
969	MA-BLD-PL-354	Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 1000mm dia	Each	1524	18%	1798
970	MA-BLD-PL-355	Ductile Iron K - 12 specials suitable for push on jointing up to 600mm dia	Quintal	9600	18%	11328
971	MA-BLD-PL-356	Ductile Iron K - 12 specials suitable for push on jointing over 600mm dia	Quintal	12200	18%	14396
972	MA-BLD-PL-357	Ductile Iron specials suitable for mechanical jointing as per I.S. 9523 - up to 600mm dia	Quintal	8200	18%	9676
973	MA-BLD-PL-358	Ductile Iron Specials suitable for mechanical jointing as per I.S. 9523 over 600mm dia	Quintal	13800	18%	16284
974	MA-BLD-PL-359	Ductile Iron Pipe Class K-9 flanges and welding 100mm dia	Metre	2897	18%	3419
975	MA-BLD-PL-360	Ductile Iron Pipe Class K-9 flanges and welding 150mm dia	metre	4017	18%	4741
976	MA-BLD-PL-361	Ductile Iron Pipe Class K-9 flanges and welding 200mm dia	Metre	5346	18%	6309
977	MA-BLD-PL-362	Ductile Iron Pipe Class K-9 flanges and welding 250mm dia	Metre	7186	18%	8480
978	MA-BLD-PL-363	Ductile Iron Pipe Class K-9 flanges and welding 300mm dia	metre	9369	18%	11056
979	MA-BLD-PL-364	Ductile Iron Pipe Class K-9 flanges and welding 350mm dia	Metre	11931	18%	14079
980	MA-BLD-PL-365	Ductile Iron Pipe Class K-9 flanges and welding 400mm dia	Metre	16214	18%	19133
981	MA-BLD-PL-366	Ductile Iron Pipe Class K-9 flanges and welding 450mm dia	Metre	19869	18%	23446
982	MA-BLD-PL-367	Ductile Iron Pipe Class K-9 flanges and welding 500mm dia	Metre	22643	18%	26719
983	MA-BLD-PL-368	Ductile Iron Pipe Class K-9 flanges and welding 600mm dia	Metre	28772	18%	33951
984	MA-BLD-PL-369	Ductile Iron Pipe Class K-9 flanges and welding 700mm dia	Metre	38424	18%	45341
985	MA-BLD-PL-370	S&S Centrifugally (Spun) C.I. Pipe class LA 100mm dia	Metre	916	18%	1081
986	MA-BLD-PL-371	S&S Centrifugally (Spun) C.I. Pipe class LA 125mm dia	metre	1218	18%	1438
987	MA-BLD-PL-372	S&S Centrifugally (Spun) C.I. Pipe class LA 150mm dia	metre	1519	18%	1793
988	MA-BLD-PL-373	S&S Centrifugally (Spun) C.I. Pipe class LA 200mm dia	Metre	2222	18%	2622
989	MA-BLD-PL-374	S&S Centrifugally (Spun) C.I. Pipe class LA 250mm dia	Metre	2994	18%	3533
990	MA-BLD-PL-375	S&S Centrifugally (Spun) C.I. Pipe class LA 300mm dia	Metre	3860	18%	4555
991	MA-BLD-PL-376	S&S Centrifugally (Spun) C.I. Pipe class LA 350mm dia	metre	5167	18%	6098



Sr.No.	Material Code	Common Items	Unit	Final Rate 2017-18		
				Minimum Rate	GST %	Rate after GST
992	MA-BLD-PL-377	S&S Centrifugally (Spun) C.I. Pipe class LA 400mm dia	Metre	6288	18%	7420
993	MA-BLD-PL-378	S&S Centrifugally (Spun) C.I. Pipe class LA 450mm dia	Metre	7582	18%	8947
994	MA-BLD-PL-379	S&S Centrifugally (Spun) C.I. Pipe class LA 500mm dia	Metre	8554	18%	10094
995	MA-BLD-PL-380	S&S Centrifugally (Spun) C.I. Pipe class LA 600mm dia	Metre	11400	18%	13452
996	MA-BLD-PL-381	S&S Centrifugally (Spun) C.I. Pipe Specials as per IS 1538 suitable for lead jointing up to 300 mm dia	Quintal	5800	18%	6844
997	MA-BLD-PL-382	S&S Centrifugally (Spun) C.I. Pipe Specials as per IS 1538 suitable for lead jointing over 300 mm dia	Quintal	7150	18%	8437
998	MA-BLD-PL-383	S&S Centrifugally (Spun) C.I. Pipe specials suitable for mechanical joint as per I.S. 13382 up to 300 mm dia	Quintal	6750	18%	7965
999	MA-BLD-PL-384	S&S Centrifugally (Spun) C.I. Pipe Specials suitable for mechanical joint as per IS 13382 over 300 mm dia	Quintal	7350	18%	8673
1000	MA-BLD-PL-385	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 100 mm dia	Metre	1660	18%	1959
1001	MA-BLD-PL-386	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 150 mm dia	Metre	1700	18%	2006
1002	MA-BLD-PL-387	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 200 mm dia	Metre	1770	18%	2089
1003	MA-BLD-PL-388	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 250 mm dia	Metre	1800	18%	2124
1004	MA-BLD-PL-389	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 300 mm dia	Metre	1880	18%	2219
1005	MA-BLD-PL-390	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 350 mm dia	Metre	1900	18%	2242
1006	MA-BLD-PL-391	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 400 mm dia	Metre	1930	18%	2278
1007	MA-BLD-PL-392	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 450 mm dia	Metre	1950	18%	2301
1008	MA-BLD-PL-393	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 500 mm dia	Metre	2000	18%	2360
1009	MA-BLD-PL-394	Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 600 mm dia	Metre	2400	18%	2832
1010	MA-BLD-PL-395	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 100mm dia	Metre	686	18%	809
1011	MA-BLD-PL-396	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 150mm dia	Metre	981	18%	1158
1012	MA-BLD-PL-397	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 200mm dia	Metre	1241	18%	1465
1013	MA-BLD-PL-398	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 250mm dia	Metre	1634	18%	1929
1014	MA-BLD-PL-399	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 300mm dia	Metre	2060	18%	2431
1015	MA-BLD-PL-400	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 350mm dia	Metre	2539	18%	2996
1016	MA-BLD-PL-401	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 400mm dia	Metre	3055	18%	3605
1017	MA-BLD-PL-402	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 450mm dia	Metre	3668	18%	4329
1018	MA-BLD-PL-403	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 500mm dia	Metre	4275	18%	5046
1019	MA-BLD-PL-404	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 600mm dia	metre	5658	18%	6677
1020	MA-BLD-PL-405	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 700mm dia	Metre	7781	18%	9182
1021	MA-BLD-PL-406	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 800mm dia	Metre	10073	18%	11886
1022	MA-BLD-PL-407	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 900mm dia	metre	12240	18%	14444



Sr.No.	Material Code	Common Items	Unit	Final Rate 2017-18		
				Minimum Rate	GST %	Rate after GST
1023	MA-BLD-PL-408	Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 1000mm dia	metre	15024	18%	17729
1024	MA-BLD-PL-409	P.T.M.T. Bib cock with nozzle 15mm	each	250	18%	295
1025	MA-BLD-PL-410	P.T.M.T. Stop cock (concealed) 15mm	each	280	18%	331
1026	MA-BLD-PL-411	15 mm nominal bore and 30 cm length PVC connection pipe with P.T.M.T. Nuts	each	75	18%	89
1027	MA-BLD-PL-412	15 mm nominal bore and 45 cm length PVC connection pipe with P.T.M.T. Nuts	each	90	18%	107
1028	MA-BLD-PL-413	P.T.M.T. extension nipple 15mm	each	22	18%	26
1029	MA-BLD-PL-414	P.T.M.T. extension nipple 20mm	each	28	18%	34
1030	MA-BLD-PL-415	P.T.M.T. extension nipple 25mm	each	32	18%	38
1031	MA-BLD-PL-416	1216 mm PE-AL-PE Composite pressure pipe	Metre	50	18%	59
1032	MA-BLD-PL-417	1620 mm PE-AL-PE Composite pressure pipe	Metre	61	18%	73
1033	MA-BLD-PL-418	2025 mm PE-AL-PE Composite pressure pipe	Metre	84	18%	99
1034	MA-BLD-PL-419	2532 mm PE-AL-PE Composite pressure pipe	Metre	122	18%	145
1035	MA-BLD-PL-420	3240 mm PE-AL-PE Composite pressure pipe	Metre	190	18%	224
1036	MA-BLD-PL-421	4050 mm PE-AL-PE Composite pressure pipe	Metre	279	18%	330
1037	MA-BLD-PL-422	Poly propylene- Random - Co - Polymer (PPR) pipes SDR 7.4 - 16 Outer dia	Metre	48	18%	57
1038	MA-BLD-PL-423	Poly propylene - Random - Co - Polymer (PPR) pipes SDR 7.4 - 20mm Outer dia.	Metre	61	18%	72
1039	MA-BLD-PL-424	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 25 mm outer dia.	Metre	90	18%	106
1040	MA-BLD-PL-425	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 32 mm Outer dia.	Metre	144	18%	170
1041	MA-BLD-PL-426	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 40mm Outer dia.	Metre	223	18%	264
1042	MA-BLD-PL-427	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 50mm Outer dia.	Metre	365	18%	432
1043	MA-BLD-PL-428	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 63mm Outer dia.	Metre	574	18%	678
1044	MA-BLD-PL-429	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 75mm Outer dia.	Metre	795	18%	939
1045	MA-BLD-PL-430	Poly propylene - Random - Co - polymer (PPR) pipes SDR 7.4 - 90mm Outer dia.	Metre	1169	18%	1380
1046	MA-BLD-PL-431	Poly propylene - Random - Co - polymer (PPR) pipes SDR - 11 - 110mm Outer dia.	Metre	1747	18%	2062
1047	MA-BLD-PL-432	Poly propylene - Random - Co - polymer (PPR) pipes SDR - 11- 160mm Outer dia.	Metre	4609	18%	5439
1048	MA-BLD-PL-433	Chlorinated Polyvinyl - chloride (CPVC) pipe 15 mm outer dia.	metre	47	18%	56
1049	MA-BLD-PL-434	Chlorinated Polyvinyl - chloride (CPVC) pipe 20 mm outer dia.	metre	72	18%	86
1050	MA-BLD-PL-435	Chlorinated Polyvinyl - chloride (CPVC) pipe 25 mm outer dia.	metre	83	18%	98
1051	MA-BLD-PL-436	Chlorinated Polyvinyl - chloride (CPVC) pipe 32 mm outer dia.	metre	126	18%	150
1052	MA-BLD-PL-437	Chlorinated Polyvinyl - chloride (CPVC) pipe 40 mm outer dia.	metre	213	18%	252
1053	MA-BLD-PL-438	Chlorinated Polyvinyl - chloride (CPVC) pipe 50 mm outer dia.	metre	354	18%	418



Sr.No.	Material Code	Common Items	Unit	Final Rate 2017-18		
				Minimum Rate	GST %	Rate after GST
1054	MA-BLD-PL-439	Chlorinated Polyvinyl - chloride (CPVC) pipe 62.5mm inner dia.	metre	903	18%	1066
1055	MA-BLD-PL-440	Chlorinated Polyvinyl - chloride (CPVC) pipe 75 mm inner dia.	metre	1259	18%	1486
1056	MA-BLD-PL-441	Chlorinated Polyvinyl - chloride (CPVC) pipe 100 mm inner dia.	metre	1789	18%	2112
1057	MA-BLD-PL-442	Chlorinated Polyvinyl - chloride (CPVC) pipe 150 mm inner dia.	metre	3209	18%	3787
1058	MA-BLD-PL-443	Carriage of G.I. pipes below 100 mm dia	tonne	719	18%	849
1059	MA-BLD-PL-444	C.I. cover and frame 300x300 mm inside	each	658	18%	777
1060	MA-BLD-PL-445	C.I.cover without frame 300x300mm inside i/c cover of 4.50 kg	each	520	18%	614
1061	MA-BLD-PL-446	Rectangular cover 455x610mm without frame (low duty)	each	1200	18%	1416
1062	MA-BLD-PL-447	500 mm dia cover without frame (medium duty)	each	2500	0%	2500
1063	MA-BLD-PL-448	C.I. grating 100x100 mm	each	65	18%	77
1064	MA-BLD-PL-449	C.I. grating 150x150 mm	each	85	18%	101
1065	MA-BLD-PL-450	C.I. grating 180x180 mm	each	125	18%	148
1066	MA-BLD-PL-451	S.C.I. soil, waste and vent single socketed pipe 1.80 metres long: 150mm dia	each	3539	18%	4177
1067	MA-BLD-PL-452	S.C.I. plain bend 150mm dia	each	938	18%	1108
1068	MA-BLD-PL-453	R.C.C. pipes NP2 class 100 mm dia	metre	194	18%	229
1069	MA-BLD-PL-454	R.C.C. pipes NP2 class 150 mm dia	metre	227	18%	268
1070	MA-BLD-PL-455	R.C.C. pipes NP2 class 250 mm dia	metre	398	18%	470
1071	MA-BLD-PL-456	R.C.C. pipes NP2 class 300 mm dia	metre	449	18%	530
1072	MA-BLD-PL-457	R.C.C. pipes NP2 class 450 mm dia	metre	712	0%	712
1073	MA-BLD-PL-458	R.C.C. pipes NP2 class 500 mm dia	metre	844	18%	996
1074	MA-BLD-PL-459	R.C.C. pipes NP2 class 600 mm dia	metre	1000	18%	1180
1075	MA-BLD-PL-460	R.C.C. pipes NP2 class 700 mm dia	metre	1271.186441	18%	1500
1076	MA-BLD-PL-461	R.C.C. pipes NP2 class 800 mm dia	metre	1525.423729	18%	1800
1077	MA-BLD-PL-462	R.C.C. pipes NP2 class 900 mm dia	metre	1822	18%	2150
1078	MA-BLD-PL-463	R.C.C. pipes NP2 class 1000 mm dia	metre	2118.644068	18%	2500
1079	MA-BLD-PL-464	R.C.C. pipes NP2 class 1100 mm dia	metre	2489.59322	18%	2938
1080	MA-BLD-PL-465	R.C.C. pipes NP2 class 1200 mm dia	metre	3051	18%	3600
1081	MA-BLD-PL-466	R.C.C. collars NP2 class 100 mm dia	each	40	18%	48
1082	MA-BLD-PL-467	Stoneware pipes grade A (60 cm long) 100 mm dia	each	66	18%	79
1083	MA-BLD-PL-468	Stoneware pipes grade A (60 cm long) 150 mm dia	each	92	18%	109
1084	MA-BLD-PL-469	Stoneware pipes grade A (60 cm long) 200 mm dia	each	153	18%	181



Sr.No.	Material Code	Common Items	Unit	Final Rate 2017-18		
				Minimum Rate	GST %	Rate after GST
1085	MA-BLD-PL-470	Stoneware pipes grade A (60 cm long) 250 mm dia	each	194	18%	229
1086	MA-BLD-PL-471	S.W. gully trap P type 100x100 mm	each	99	18%	117
1087	MA-BLD-PL-472	S.W. gully trap P type 150x100 mm	each	133	18%	157
1088	MA-BLD-PL-473	S.W. gully trap P type 180x150 mm	each	450	18%	531
1089	MA-BLD-PL-474	560 mm dia cover without frame (Heavy duty)	each	4500	18%	5310
1090	MA-BLD-PL-475	S.C.I. Tee 150 mm	each	1810.2	18%	2137
1091	MA-BLD-PL-476	S.W. intercepting trap 100 mm dia	each	266	18%	314
1092	MA-BLD-PL-477	S.W. intercepting trap 150 mm dia	each	320	18%	378
1093	MA-BLD-PL-478	Rectangular shape 600x450 mm precast R.C.C. manhole cover with frame - L.D. - 25	each	1377	18%	1625
1094	MA-BLD-PL-479	Square shape 350x350 mm precast R.C.C. manhole cover with frame - L.D. - 25	each	663	18%	783
1095	MA-BLD-PL-480	Circular shape 450 mm dia precast R.C.C. manhole cover with frame	each	850	0%	850
1096	MA-BLD-PL-481	Rectangular shape 500x500 mm precast R.C.C. manhole cover with frame - M.D. - 10	each	1390	0%	1390
1097	MA-BLD-PL-482	Circular shape 500 mm dia precast R.C.C. manhole cover with frame - M.D. - 10	each	975	18%	1151
1098	MA-BLD-PL-483	Circular shape 560 mm dia precast R.C.C. manhole cover with frame - H.D. - 20	each	816	18%	963
1099	MA-BLD-PL-484	Circular shape 560 mm dia precast R.C.C. manhole cover with frame - E.H.D. - 35	each	1950	18%	2301
1100	MA-BLD-PL-485	Plastic encapsulated M.S. foot rest 30x20x15 cm	each	223	18%	264
1101	MA-BLD-PL-486	Extruded burnt flyash clay sewer bricks conforming to I.S 4885 - 1988	1000 Nos	5500	18%	6490
1102	MA-BLD-PL-487	Hemp Rope	kg	185	18%	219
1103	MA-BLD-PL-488	W.I. Clamp	No.	416	18%	492
1104	MA-BLD-PL-489	Mud (dry)	cum	783	18%	925
1105	MA-BLD-PW-1	Water proofing compound - conplast x421 IC (Make- Fosroc) or equivalent	Lit.	77	18%	91
1106	MA-BLD-PW-2	Neeru	Kg	6	18%	8
1107	MA-BLD-PW-3	Sea Gravel	Cum	700	18%	826
1108	MA-BLD-PW-4	kharsalia sand	Cum	2544	5%	2672
1109	MA-BLD-PW-5	Malad chip powder	Kg	7	18%	9
1110	MA-BLD-PW-6	Colours in plastering work / Pigments	Kg	7	18%	9
1111	MA-BLD-PW-7	polypropylene fibermesh fibers	Kg	45	18%	54
1112	MA-BLD-PW-8	Bird wired mesh/ Wired fabric mesh (12.5 x 24SWG)	Sqmt	120	18%	142
1113	MA-BLD-PW-9	Roofit readymade mortar for external plaster	Kg	8	18%	10
1114	MA-BLD-PW-10	Roofit readymade mortar for internal plaster	Kg	8	18%	10
1115	MA-BLD-PW-11	Birla white Putty or equivalent	Kg	21	18%	25



Sr.No.	Material Code	Common Items	Unit	Final Rate 2017-18		
				Minimum Rate	GST %	Rate after GST
1116	MA-BLD-PW-12	Gypsum Plaster (Stucco Plaster)	Kg	9	5%	10
1117	MA-BLD-PV-1	Factory made glass reinforced plastic door frame 90x45 mm i/c carriage.	Rm	408	18%	482
1118	MA-BLD-PV-2	30 mm thick factory made glass fiber reinforced plastic panel door shutter i/c carriage.	Sqm	1703	18%	2011
1119	MA-BLD-PV-3	30 mm thick factory made glass fiber reinforced plastic flush door shutter i/c carriage.	Sqm	2295	18%	2709
1120	MA-BLD-PV-4	Factory made solid PVC door frame 48 x 40mm including carriage.	Rm	66	18%	78
1121	MA-BLD-PV-5	Factory made solid PVC door frame 42 x 50mm including carriage.	Rm	72	18%	85
1122	MA-BLD-PV-6	24 mm thick factory made PVC door shutters made of styles and rails of a UPVC hollow section of size 59x24 mm	Sqm	1076	18%	1270
1123	MA-BLD-PV-7	25mm thick PVC flush door shutters made out of a one piece Multi chamber extruded PVC section of the size of 762mm X 25mm or less	Sqm	969	18%	1144
1124	MA-BLD-PV-8	Factory made solid PVC door frame 50 x 47mm including EPDM rubber gasket weather seal, all fixtures and carriage.	Rm	72	18%	85
1125	MA-BLD-PV-9	30mm thick factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19mm x 40mm for sides and 45x45mm for top & bottom rails.	Sqm	1227	18%	1448
1126	MA-BLD-PV-10	30mm thick factory made solid both side Pre-laminated panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 40mm x 40mm for sides and 45x45mm for top & bottom rails.	Sqm	3500	18%	4130
1127	MA-BLD-PV-11	Factory made solid PVC door frame 60 x 30mm	Rm	92	18%	109
1128	MA-BLD-PV-12	Factory made 30 mm thick solid PVC foam door shutter	Sqm	1900	18%	2242
1129	MA-BLD-PV-13	Fibre reinforced plastic (FRP) chajja 4 mm	Sqm	1350	18%	1593
1130	MA-BLD-RW-1	Mangalore tiles 20 mm thick.	Nos	15	18%	18
1131	MA-BLD-RW-2	Mangalore ridge tiles 20mm thick.	Nos	40	18%	48
1132	MA-BLD-RW-3	Non - Asbestos fibre cement corrugate serrated adjustable ridge.	Rm	147	18%	174
1133	MA-BLD-RW-4	Non - Asbestos fibre cement plain wing adjustable ridge.	Rm	177	18%	209
1134	MA-BLD-RW-5	Non - Asbestos fibre cement close fitting adjustable ridge.	Rm	245	18%	290
1135	MA-BLD-RW-6	Non - Asbestos fibre cement unserrated adjustable ridge for hips.	Rm	345	18%	408
1136	MA-BLD-RW-7	Non - Asbestos fibre cement eaves filler piece.	No.	490	18%	579
1137	MA-BLD-RW-8	Non - Asbestos fibre cement north light curves.	Rm	170	18%	201
1138	MA-BLD-RW-9	Non - Asbestos fibre cement ventilator curves.	No.	170	18%	201
1139	MA-BLD-RW-10	Non - Asbestos fibre cement barge boards 6 mm thick.	Rm	210	18%	248
1140	MA-BLD-RW-11	Non - Asbestos cement corrugated sheet 6mm thick.	Sqm	344	18%	406
1141	MA-BLD-RW-12	Non - Asbestos fibre cement ridge finial .	pair	141	18%	167
1142	MA-BLD-RW-13	Non - Asbestos fibre cement special north light curves.	No.	579	18%	684
1143	MA-BLD-RW-14	Non - Asbestos fibre cement S type louvers.	No.	180	18%	213
1144	MA-BLD-RW-15	UV stabilised 1.5 mm thick corrugated FRP sheet .	sqm	416	18%	491
1145	MA-BLD-RW-16	UV stabilised 2 mm thick corrugated Polycarbonate sheet.	sqm	900	18%	1062
1146	MA-BLD-RW-17	0.63mm thk G.I Corrugated Sheets	sqm	105	18%	124



Sr.No.	Material Code	Common Items	Unit	Final Rate 2017-18		
				Minimum Rate	GST %	Rate after GST
1147	MA-BLD-RW-18	0.80mm thk G.I Corrugated Sheets	sqm	105	18%	124
1148	MA-BLD-RW-19	1.00mm thk G.I Corrugated Sheets	sqm	110	18%	130
1149	MA-BLD-RW-20	0.63mm thk G.I plain Sheets	sqm	300	18%	354
1150	MA-BLD-RW-21	0.80mm thk G.I Plain Sheets	sqm	305	18%	360
1151	MA-BLD-RW-22	1.00mm thk G.I Plain Sheets	sqm	315	18%	372
1146	MA-BLD-RW-23	Bare galvalume profile sheet 0.50 mm TCT	sqm	292	18%	345
1147	MA-BLD-RW-24	Precoated Zincalume profile sheet 0.450 mm BMT	sqm	298	18%	352
1148	MA-BLD-RW-25	Precoated galvanised steel plain ridges.	Rm	214	18%	253
1149	MA-BLD-RW-26	Precoated galvanised steel barge board.	Rm	214	18%	253
1150	MA-BLD-RW-27	Precoated galvanised steel flashings/aprons.	metre	214	18%	253
1151	MA-BLD-RW-28	Precoated galvanised steel crimp curve	sqm	308	18%	364
1152	MA-BLD-RW-29	3.12 MS gutter, 600mm Girth	Rmt	451	18%	533
1153	MA-BLD-RW-30	3.12 MS gutter, 800mm Girth	Rmt	567	18%	670
1154	MA-BLD-RW-31	3.12 MS gutter, 1000mm Girth	Rmt	670	18%	791
1155	MA-BLD-RW-32	3.12 MS gutter, 1200mm Girth	Rmt	780	18%	921
1156	MA-BLD-RW-33	1.00mm thick Precoated galvanised steel gutter	metre	345	18%	408
1157	MA-BLD-RW-34	0.80mm thick Precoated galvanised steel gutter	metre	265	18%	313
1158	MA-BLD-RW-35	0.80mm thick Precoated galvanised steel box type gutter	metre	500	18%	590
1159	MA-BLD-RW-36	U-PVC pipes (working pressure 4 kg / cm ²) Single socketed pipe 75 mm dia.	metre	88	18%	104
1160	MA-BLD-RW-37	U-PVC pipes (working pressure 4 kg / cm ²) Rubber (Seal) Ring 75 mm dia.	each	9	18%	11
1161	MA-BLD-RW-38	U-PVC pipes (working pressure 4 kg / cm ²) Single socketed pipe 110 mm dia.	metre	182	18%	215
1162	MA-BLD-RW-39	U-PVC pipes (working pressure 4 kg / cm ²) Rubber (Seal) Ring 110 mm dia.	each	20	18%	24
1163	MA-BLD-RW-40	U-PVC pipes (working pressure 4 kg / cm ²) Single socketed pipe 150 mm dia.	metre	389	18%	460
1164	MA-BLD-RW-41	U-PVC pipes (working pressure 4 kg / cm ²) Rubber (Seal) Ring 150 mm dia.	each	35	18%	42
1165	MA-BLD-RW-42	S.C.I. soil, waste and vent single socketed pipe: 75mm dia	Rmt	747	18%	882
1166	MA-BLD-RW-43	S.C.I. soil, waste and vent single socketed pipe: 100mm dia	Rmt	917	18%	1083
1167	MA-BLD-RW-44	S.C.I. soil, waste and vent single socketed pipe: 150mm dia	Rmt	1677	18%	1979
1168	MA-BLD-RW-45	90mm Sq Galvalume pipe	Rmt	750	18%	885
1169	MA-BLD-RW-46	Seam bolts and nuts 6 mm dia and 25 mm long	10 Nos	37	18%	44
1170	MA-BLD-RW-47	G.I. plain washer for seam bolts	100 Nos	100	18%	118
1171	MA-BLD-RW-48	Galvanised steel bolts & nuts 10 mm dia and 125 mm long round head with slots	No.	11	18%	13



Sr.No.	Material Code	Common Items	Unit	Final Rate 2017-18		
				Minimum Rate	GST %	Rate after GST
1172	MA-BLD-RW-49	Galvanised steel bolts & nuts 10 mm dia and 27 cm long both sides threaded with 4 galvanised steel nuts	No.	22	18%	26
1173	MA-BLD-RW-50	Galvanised steel bolts 10 mm dia and 7 cm long with nuts	No.	16	18%	19
1174	MA-BLD-RW-51	Galvanised steel bolts & nuts 6 mm dia and 25 mm long round head with slots	10 Nos	100	18%	118
1175	MA-BLD-RW-52	Galvanised steel J or L hooks 8 mm dia, 300 long and nuts	10 Nos	99	18%	117
1176	MA-BLD-RW-53	Bitumen washer	100 Nos	27	18%	32
1177	MA-BLD-RW-54	G.I. plain washer thin	100 Nos	33	18%	39
1178	MA-BLD-RW-55	G.I. plain washer thick	100 Nos	35	18%	42
1179	MA-BLD-RW-56	G.I. Limpet washer	100 Nos	38	18%	45
1180	MA-BLD-RW-57	5 mm thick rough cast wired glass	Sqm	1200	18%	1416
1181	MA-BLD-RW-58	Roofing paint for iron sheets in red colour	litre	115	18%	136
1182	MA-BLD-RW-59	Rubberised Paint	Lit	170	18%	201
1183	MA-BLD-RW-61	Polyester powder coating 50 microns on aluminium sections	kilogram	50	18%	59
1184	MA-BLD-RW-63	Oil type wood preservative	Lit.	77	18%	91
1185	MA-BLD-RW-64	U-PVC pipes (working pressure 4 kg / cm ²) Single socketed pipe 200 mm dia.	metre	160	18%	189
1186	MA-BLD-RW-65	U-PVC pipes (working pressure 4 kg / cm ²) Rubber (Seal) Ring 200 mm dia.	each	39	18%	47
1187	MA-BLD-SI-3	Mild steel square bars	Kg	42	18%	50
1188	MA-BLD-SI-4	Mild steel U beading	RM	13	18%	16
1189	MA-BLD-SI-5	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia. of wire 0.63 mm	Sqm	140	18%	166
1190	MA-BLD-SI-6	Rolling shutters of 80x1.00mm laths	Sqm	2100	18%	2478
1191	MA-BLD-SI-7	Top cover of Rolling shutters 1.0 mm thick	Rm	250	18%	295
1192	MA-BLD-SI-8	27.5 cm long wire spring grade no 2 for rolling shutters	No.	400	18%	472
1193	MA-BLD-SI-9	Ball bearing for rolling shutters	No.	200	18%	236
1194	MA-BLD-SI-10	8mm dia. Grill for rolling shutters	Sqm	800	18%	944
1195	MA-BLD-SI-11	Extra for mechanical devices chain and cranked operation for operating rolling shutters : exceeding 10.00 sqm and up to 16.80 sqm area of door	Sqm	595	18%	703
1196	MA-BLD-SI-12	Electrically operated (motorized) system with switch and cable for rolling shutter: exceeding 16.80 sqm area of door	Sqm	1786	18%	2108
1197	MA-BLD-SI-13	Steel glazed door, standard window/ ventilator, all members viz. F7D, F4B, K11 and K12B etc.	kg	43	18%	51
1198	MA-BLD-SI-14	Steel glazed door, top hung window/ ventilator, all members viz. F7D, F4B, K11 and K12B etc.	kg	43	18%	51
1199	MA-BLD-SI-15	Steel glazed door, centrally pivotedcentrally pivoted, all members viz. F7D, F4B, K11 and K12B etc.	kg	45	18%	54
1200	MA-BLD-SI-16	Pulley 40 mm dia	No.	50	18%	59
1201	MA-BLD-SS-1	Mild steel tubes hot finished welded type	Kg	48	18%	57
1202	MA-BLD-SS-6	C / channels	Kg	90	18%	107



Sr.No.	Material Code	Common Items	Unit	Final Rate 2017-18		
				Minimum Rate	GST %	Rate after GST
1203	MA-BLD-SS-7	Heavy beams / Heavy channels	Kg	44	18%	53
1204	MA-BLD-SS-8	Plates / flats	Kg	45	18%	53
1205	MA-BLD-SS-9	Chequered plates	Kg	46	18%	54
1206	MA-BLD-SS-10	Cold formed Channels/Z sections	Kg	44	18%	52
1207	MA-BLD-SS-11	Hollow Pipe or Box sections of TATA Stuctura	Kg	44	18%	52
1208	MA-BLD-SS-12	G.I. Pipes- B Class	Kg	61	18%	72
1209	MA-BLD-SS-13	C.I. material for railing	Kg	72	18%	85
1210	MA-BLD-SS-14	MS bolts / nuts / washers	Kg	82	18%	97
1211	MA-BLD-SS-15	Oxygen gas	Cum	129	18%	153
1212	MA-BLD-SS-16	Acetyline gas	Cum	455	18%	537
1213	MA-BLD-SS-17	6mm dia Welding electrodes	Nos	10	18%	12
1214	MA-BLD-SS-18	Epoxy red oxide zinc phosphate primer	Ltr	210	28%	269
1215	MA-BLD-SS-19	Epoxy CR Enamel paint in two coats	Ltr	270	28%	346
1216	MA-BLD-SS-20	Welding by electric plant	cm	1	18%	2
1217	MA-BLD-SS-21	Grease	Kg	100	18%	118
1218	MA-BLD-SS-22	Cotton waste	Kg	70	5%	74
1219	MA-BLD-SS-23	Concrete Pole in CC 1:1.5:3, for fencing vertical member, 2.05m long, 100mm Sq at Top & 125mm Sq at Bottom.	Rmt	157	18%	186
1220	MA-BLD-SS-24	Concrete Pole in CC 1:1.5:3, for fencing diagonal support member, 2.43m long, 100mm Sq uniform.	Rmt	200	18%	236
1221	MA-BLD-SS-25	jungle wood ballies of 100 – 125 mm diameter, 2.05m long	Rmt	90	18%	107
1222	MA-BLD-SS-26	Barbed wire (14 SWG, 2 ply & 4 points @ 75mm c/c)	Rmt	6	18%	8
1223	MA-BLD-SS-27	G.I. chainlink fabric of 10 guage, mesh size 50 x 50mm	Sqm	80	18%	95
1224	MA-BLD-SS-28	750mm dia. concentrina wire bundle of openable length =10m	Bundle	700	18%	826
1225	MA-BLD-SS-29	PVC railing top	Rm	155	18%	183
1226	MA-BLD-SS-30	Mechanical anchor fastner M8 x 115 (Hilti or equivalent)	Nos	12	18%	15
1227	MA-BLD-SS-31	Mechanical anchor fastner M10 x 110 (Hilti or equivalent)	Nos	15	18%	18
1228	MA-BLD-SS-32	Mechanical anchor fastner M12 x 115 (Hilti or equivalent)	Nos	15	18%	18
1229	MA-BLD-SS-33	Mechanical anchor fastner M16 x 140 (Hilti or equivalent)	Nos	20	18%	24
1230	MA-BLD-SS-34	Chemical anchor fastener M10 x 90 foil capsule (HVU) & M10 x 130 Rod (Hilti make or equivalent)	Nos	119	18%	141
1231	MA-BLD-SS-35	Chemical anchor fastener M12 x 110 foil capsule (HVU) & M12 x 160 Rod (Hilti make or equivalent)	Nos	190	18%	225
1232	MA-BLD-SS-36	Chemical anchor fastener M16 x 125 foil capsule (HVU) & M16 x 190 Rod (Hilti make or equivalent)	Nos	260	18%	307
1233	MA-BLD-SS-37	Chemical anchor fastener M20 x 170 foil capsule (HVU) & M20 x 240 Rod (Hilti make or equivalent)	Nos	367	18%	434



Sr.No.	Material Code	Common Items	Unit	Final Rate 2017-18		
				Minimum Rate	GST %	Rate after GST
1234	MA-BLD-SS-38	Chemical anchor fastener M24 x 210 foil capsule (HVU) & M24 x 290 Rod (Hilti make or equivalent)	Nos	442	18%	522
1235	MA-BLD-SS-39	G.I. wiremesh of 10 guage and opening size 25 x 25mm	Sqm	98	18%	116
1236	MA-BLD-SS-40	Stainless steel pipes	kg	460	18%	543
1237	MA-BLD-SS-41	Threading for Bolts (200mm per 10kg)	mm	8	18%	10
1238	MA-BLD-SS-42	M. S. black pipes of 75 mm. Dia 'B' class.	Rmt	390	18%	461
1239	MA-BLD-SS-43	M. S. black pipes of 50 mm. Dia 'C' class.	Rmt	308	18%	364
1240	MA-BLD-SS-44	M. S. black pipes of 75 mm. Dia 'C' class.	Rmt	461	18%	545
1241	MA-BLD-SS-45	M. S. black pipes of 150 mm. Dia 'B' class.	Rmt	960	18%	1133
1242	MA-BLD-SS-46	M. S. black pipes of 150 mm. Dia 'C' class.	Rmt	1060	18%	1251
1243	MA-BLD-SS-47	base plate & cap plate 6 mm. thick foundation bolts, nuts with red oxide and three coats of synthetic enamel paint, etc.	Kg	51	18%	61
1244	MA-BLD-SS-48	Material, fabrication and fixing cost for GI corrugated sheet door of size 0.76 m. x 1.9 m. with G. I. sheet shutter of 22 gauge and G. I. sheet	Each	1900	18%	2242
1245	MA-BLD-SS-49	GI sheet 1.0mm thick	Sqm	700	18%	826
1246	MA-BLD-SS-50	GI sheet 1.2mm thick	Sqm	845	18%	998
1247	MA-BLD-SS-51	GI sheet 1.6mm thick	Sqm	978	18%	1155
1248	MA-BLD-SS-52	Providing and fabricating structural steel work in road sections	MT	11000	18%	12980
1249	MA-BLD-SS-53	Providing, galvanising to structural steel welded sections at 610 gm/Sqm	MT	0		0
1250	MA-BLD-SS-54	Stainless steel anchor fastener bolts M10 X 150 mm	No.	170	18%	201
1251	MA-BLD-WP-2	crystalline waterproofing chemical	Sqm	338	18%	399
1252	MA-BLD-WP-3	membrane waterproofing treatment	Sqm	1200	18%	1416
1253	MA-BLD-WP-4	roof insulation 75mm thk.	Sqm	900	18%	1062
1254	MA-BLD-WP-5	roof insulation 110mm thk.	Sqm	1600	18%	1888
1255	MA-BLD-WP-6	geotextile mat (300 GSM)	Sqm	50	18%	59
1256	MA-BLD-WP-7	Brick Aggregate (Single size) : 63 mm nominal size	Cum	1500	5%	1575
1257	MA-BLD-WP-8	Bitumen solution primer of approved quality	litre	110	18%	130
1258	MA-BLD-WP-9	Bitumen felt fibre base (vegetable or animal):Type2 grade 1	sqm	54	18%	64
1259	MA-BLD-WP-10	Bitumen felt :Type 3 grade 1	sqm	47	18%	56
1260	MA-BLD-WP-11	Coal (steam)	quintal	2100	5%	2205
1261	MA-BLD-WP-12	Water proofing materials	kilogram	24	18%	29
1262	MA-BLD-WP-13	Commercial LPG in cylinder.	kg	125	18%	148
1263	MA-BLD-WP-14	Polyvinyl chloride sheet 400 micron thick	sqm	300	18%	354
1264	MA-BLD-WP-15	Fibre glass tissue reinforcement Type II Grade I	sqm	64	18%	76



Sr.No.	Material Code	Common Items	Unit	Final Rate 2017-18		
				Minimum Rate	GST %	Rate after GST
1265	MA-BLD-WP-16	Water stops Serrated with central bulb (225 mm wide, 8-11 mm thick)	metre	405	18%	478
1266	MA-BLD-WP-17	Water stops Dumb bell with central bulb	metre	700	18%	826
1267	MA-BLD-WP-18	Kickers	metre	656	18%	775
1268	MA-BLD-WP-19	A.P.P. modified polymeric felt (two layers) 1.5 mm thick	sqm	101	28%	130
1269	MA-BLD-WP-20	A.P.P. modified polymeric felt (two layers) 2 mm thick	sqm	120	28%	154
1270	MA-BLD-WP-21	A.P.P. modified 2 mm thick membrane reinforced with glass fibre matt	sqm	120	28%	154
1271	MA-BLD-WP-22	A.P.P. modified 3 mm thick membrane reinforced with glass fibre matt	sqm	165	28%	212
1272	MA-BLD-WP-23	A.P.P. modified 3 mm thick membrane reinforced with polyester matt	sqm	175	28%	224
1273	MA-BLD-WP-24	Bitumen primer for bitumen membrane	litre	110	18%	130
1274	MA-BLD-WP-25	Geotextile 120 gsm membrane	sqm	46	18%	55
1275	MA-BLD-WP-26	Polymer modified cementation coating	kilogram	90	18%	107
1276	MA-BLD-WP-27	Fibre glass cloth	sqm	50	18%	59
1277	MA-BLD-WP-28	Waterproofing with AAC bats	cum	10000	18%	11800
1278	MA-BLD-WP-29	China mosaic	kilog	6	18%	8
1279	MA-BLD-WP-30	ROUGH SHAHABAD 12-18 mm	sqm	205	18%	242
1280	MA-BLD-WP-31	BITUMEN FILLER 25MM WIDE SLAB AREA	sqm	100	18%	118
1281	MA-BLD-WP-32	Broken china mosaic pieces	MT	200	18%	236
1282	MA-BLD-WP-33	BITUMEN 20/30 PENETRATION	MT	33000	18%	38940
1283	MA-BLD-WP-34	ROUGH SHAHABAD 20-25 mm	sqm	170	18%	201
1284	MA-BLD-WP-35	BROKEN MARBLE MOSAIC	MT	2000	18%	2360
1285	MA-BLD-WW-01	Second class teak wood in scantling	Cum	31805	18%	37530
1286	MA-BLD-WW-02	Second class teak wood in planks	Cum	31805	18%	37530
1287	MA-BLD-WW-03	Flat pressed 3 layer and graded particle board (medium density) Grade 1 conforming to IS :	Sqm	215	18%	255
1288	MA-BLD-WW-04	Silver, pine or oak wood	Cum	19423	18%	22920
1289	MA-BLD-WW-05	Ply wood 5 ply with commercial ply on both faces 6 mm thick	Sqm	183	18%	216
1290	MA-BLD-WW-07	9 mm thk. (5 ply) commercial ply of superior quality	Sqm	433	18%	511
1291	MA-BLD-WW-08	12 mm thk. (5 ply) commercial ply of superior quality	Sqm	366	18%	432
1292	MA-BLD-WW-09	12 mm thk. (5 ply) marine ply conforming to IS 1328 BWP grade	Sqm	571	18%	674
1293	MA-BLD-WW-10	Veneer board 3mm thk.	Sqm	484	18%	572
1294	MA-BLD-WW-11	Veneer board 4mm thk.	Sqm	517	18%	610
1295	MA-BLD-WW-12	Ply wood 5 ply with commercial ply on both faces 9 mm thick	Sqm	291	18%	343



Sr.No.	Material Code	Common Items	Unit	Final Rate 2017-18		
				Minimum Rate	GST %	Rate after GST
1296	MA-BLD-WW-13	25mm thk. Phenol Bonded solid core commercial flush door shutters	sqm	576	18%	680
1297	MA-BLD-WW-14	30mm thk. Phenol Bonded solid core commercial flush door shutters	sqm	646	18%	762
1298	MA-BLD-WW-15	35mm thk. Phenol Bonded solid core commercial flush door shutters	sqm	775	18%	915
1299	MA-BLD-WW-16	40mm thk. Phenol Bonded solid core commercial flush door shutters	sqm	883	18%	1042
1300	MA-BLD-WW-17	25mm thk. B.W.P. grade solid core flush door shutters conforming to IS 2202	sqm	753	18%	889
1301	MA-BLD-WW-18	30mm thk. B.W.P. grade solid core flush door shutters conforming to IS 2202	sqm	1023	18%	1207
1302	MA-BLD-WW-19	35mm thk. B.W.P. grade solid core flush door shutters conforming to IS 2202	sqm	1076	18%	1270
1303	MA-BLD-WW-20	40mm thk. B.W.P. grade solid core flush door shutters conforming to IS 2202	sqm	1237	18%	1461
1304	MA-BLD-WW-21	Teak wood lipping	Rm	11	18%	14
1305	MA-BLD-WW-22	T.W. Decorative moulding of size 38 x12mm	Rm	82	18%	97
1306	MA-BLD-WW-23	T.W. Decorative moulding of size 38 x20mm	Rm	92	18%	109
1307	MA-BLD-WW-24	12.5 mm thick tapered edge gypsum moisture resistant board	Sqm	160	18%	189
1308	MA-BLD-WW-25	12 mm thick tapered edge calcium silicate board.	Sqm	200	18%	236
1309	MA-BLD-WW-29	Door Hardware for sliding arrangement such as channel, rollers	Rm	1600	18%	1888
1310	MA-BLD-WW-30	250mm long Iron oxidized aldrop	10 Nos.	125	18%	148
1311	MA-BLD-WW-32	Galvanised M.S. sheet 0.5 mm thick pressed channel section of size 50x32 mm	Rm	50	18%	59
1312	MA-BLD-WW-34	Galvanised M.S. sheet 0.50 mm thick pressed stud. 48x34x36 mm	Rm	55	18%	65
1313	MA-BLD-WW-36	Fevicol or equivalent	Kg	144	18%	170
1314	MA-BLD-WW-37	Shellac	kg	300	0%	300
1315	MA-BLD-WW-38	Spirit	Lit.	54	18%	64
1316	MA-BLD-WW-39	Wood primer	Lit	93	18%	110
1317	MA-BLD-WW-40	Synthetic enamel paint	Lit	132	28%	169
1318	MA-BLD-WW-41	All drive screws (for gypsum board)	100 Nos.	57	18%	68
1319	MA-BLD-WW-42	Dash hold fastener 12.5 mm dia, 40 mm long with 6 mm dia bolt	No.	14	18%	17
1320	MA-BLD-WW-43	Rawl plug 50 mm (designation 10 no.)	No.	20	18%	24
1321	MA-BLD-WW-44	Glue	Kg	76	18%	90
1322	MA-BLD-WW-45	Joint tape roll (2 ft X 100 m)	Roll	885	18%	1045
1323	MA-BLD-WW-46	Plaster of Paris	kg	6	5%	7
1324	MA-BLD-WW-47	Second class sal wood in scantling	Cum	19404	18%	22897
1325	MA-BLD-WW-48	Second class sal wood in Planks	Cum	19404	18%	22897
1326	MA-BLD-WW-49	20 x 12mm thk. Teak wood lipping (beading)	Rm	40	18%	48



Sr.No.	Material Code	Common Items	Unit	Final Rate 2017-18		
				Minimum Rate	GST %	Rate after GST
1327	MA-BLD-WW-50	18 mm thk. commercial ply of superior quality	Sqm	11	18%	14
1328	MA-BLD-WW-51	Melamine Polish	Lit.	300	18%	354
1329	MA-BLD-WW-52	Wax Polish (Readymade)	Kg	200	18%	236
1330	MA-BLD-WW-53	Aquawood' (CIPY) or equivalent Polyurethane wood coating	Lit	280	18%	331
1331	MA-BLD-WW-54	Calcium Silicate tegular edged ceiling tiles 595x595 mm and 15 mm thick	Sqmt	894	18%	1055
1332	MA-BLD-WW-55	Galvanised Steel main Tee ceiling section Size 24x38x0.33mm (3 metre long)	Nos.	125	18%	148
1333	MA-BLD-WW-56	Galvanised Steel perimeter wall Angle Size 24 x 24 x 0.40 mm (3.00 metre long)	Nos.	85	18%	101
1334	MA-BLD-WW-57	Galvanised Steel intermediate cross T section Size 24 x 28 x 0.33 mm (1.2 metre long)	Nos.	42	18%	50
1335	MA-BLD-WW-58	Galvanised Steel intermediate cross T section Size 24 x 28 x 0.33. (0.6 metre long)	Nos.	22	18%	26
1336	MA-BLD-WW-59	Hanger rod 4mm thick	Nos.	25	18%	30
1337	MA-BLD-WW-60	Level Adjustment clip Size 85x30x0.8 mm	Nos.	10	18%	12
1338	MA-BLD-WW-61	Dash fastener 12.5 mm dia 50 mm long	Nos.	10	18%	12
1339	MA-BLD-WW-62	Soffit cleat 25mmx35mmx1.60mm	Nos.	1	18%	2
1340	MA-BLD-WW-63	Wooden screws with plastic rawl plugs 35mmx8mm	Nos.	1	18%	2
1341	MA-BLD-WW-64	Armstrong Orcal Lay ceiling with pre coated galvanised steel in 0.5/0.4 mm tiles with perforation of 2.5mm dia and open area 16%	Sqmt	883	18%	1042
1342	MA-BLD-WW-65	Galvanised Steel main Tee ceiling section Size 34x24 (Heavy duty) (3 metre long)	Nos.	120	18%	142
1343	MA-BLD-WW-66	Galvanised Steel perimeter wall Angle Size 19 x 19 x 0.40 mm (3.00 metre long)	Nos.	87	18%	103
1344	MA-BLD-WW-67	Galvanised Steel intermediate cross T section Size 26 x 24 (Heavy duty) (1.2 metre long)	Nos.	45	18%	54
1345	MA-BLD-WW-68	Galvanised Steel intermediate cross T section Size 26 x 24 (Heavy Duty) (0.6 metre long)	Nos.	24	18%	29
1346	MA-BLD-WW-69	9mm thk. India Gypsum PVC laminated 9.5 mm thk 'POLYSHIELD' tiles	Sqm	620	18%	732
1347	MA-BLD-WW-70	Armstrong Acoustical Suspended Ceiling System with Fine Fissured Tiles	Sqm	603	18%	712
1348	MA-BLD-WW-71	Fully Glazed double shutter automatic Door Opening including installation	No.	13212	18%	15591
1349	MA-BLD-WW-72	TW frame fully glazed door with shutters with full swing	Sqm	1800	18%	2124
1350	MA-BLD-WW-73	Silicone sealant	Lit	100	28%	128
1351	MA-BLD-WW-74	First class teak wood in planks	One Cum	110000	18%	129800
1352	MA-BLD-WW-75	45 mm thk 2hr fire rated door with fittings	sqm	22000	18%	25960



SUGGESTED MAKES LIST

Sr. No.	Category	Sub Category	Brand Name
1	Cement	OPC 43/53 Grade(ISI marked)	Ambuja Cement, L & T, ACC, Birla, Ultratech, Ambuja, Grasim, JK, Binani, Dalmia Cement, Kalburgi Cement
2	Cement	PSC (ISI marked)	Commando Cement Ltd., JSW Cement
3	Cement	White Cement	Ultra tech, ACC, Birla ,J.K,
4	Cement	Chemical Admixtures	Kerakoll, BASF, MYK Schomburg, Pidilite, Sunanda Chemicals, Sika, FOSROC, Choksey Chemicals, PERma Construction Aids.
5	Cement	Expansion joint board	Supreme Industries or equivalent
6	Steel	Rebars	Vizag Nigam Ltd., SAIL
7	Steel	Structural Steel	Vizag, TISCON, SAIL, Metro structure, RINL, AGRASEN ISPAT, JSW, CORUS
8	Steel	HYSD Bars	Metro HSDS bars
9	Steel	TMT Bars	Thermex TMT, Electrotherm India, Hariom Ingots
10	Steel	M.S. Pipe, Tubes, Bar, Flats, Angle, Tee Sections	SAIL, TISCO
11	Epoxy Coating	FBE Coating to Reinforcement Bars	Electrotherm India, Hariom Ingots, PSL
12	Rebar Coupler	Coupler	Spplcetek, Re-inforced.
13	Brick Work	AAC blocks	BILT Industries Pvt. Ltd, Aerocon, Siporex India limited, Xtralite
14	Wood & PVC Work	PVC continuous fillet for periphery Packing of Glazings / Cur. Wall	Roop / Anand / Forex Plastic
15	Wood & PVC Work	PVC sheet	Forbo, Armstrong
16	Wood & PVC Work	Wooden Flush Doors	Kutty, Anand, Anchor, Duro, Kent
17	Wood & PVC Work	Flush Door	Duraboard, Kit ply, MerinoPly

APPENDIX-B

Sr. No.	Category	Sub Category	Brand Name
18	Wood & PVC Work	Flush Door Shutter	Green, Century
19	Wood & PVC Work	Waterproof Ply	Green Ply, Garnet, Century
20	Wood & PVC Work	Commercial ply.	Garnet, Century, Donear, Green Ply
21	Wood & PVC Work	Veneer	Duro, Green, Donear, Century
22	Wood & PVC Work	Laminate	Greenlam, Century, Merino
23	Wood & PVC Work	Pre-laminated particle board-Exterior grade	Novopan, Merino, Anchorlam, Bhutan Board
24	Wood & PVC Work	Gypsum board.	Saint Gobain, Lafarge
25	Wood & PVC Work	Cement Bonded Board	BISON' by NCL
26	Wood & PVC Work	Shower partitions	Dorma, Grohe, Hindware
27	Wood & PVC Work	Mineral Fiber Ceiling	Lloyd, Nittobo, Armstrong.
28	Wood & PVC Work	Calcium silicate false ceiling	Hilux, Promat
29	Wood & PVC Work	Wax Polish	Mansion
30	Wood & PVC Work	Block Board / Ply	Phenol bonded boards of Merino/ Duro/ Samrat/ Kit Ply
31	Wood & PVC Work	Cement Board	Smart Board, JAMES Hardie
32	Wood & PVC Work	PVB/ Laminate Film	Dupont
33	Wood & PVC Work	Door Hardware	Ingersolrand, Geze, Dorma, Guardian, Dorset, Magnum, Union, Kitch
34	Wood & PVC Work	Door Lock & Handle	Ingersolrand, Geze, Dorma Guardian, D-Line
35	Wood & PVC Work	Door closer	Ingersolrand, Geze, Dorma , Guardian
36	Wood & PVC Work	Door Locks (Concealed / Surface mounted)	Ingersolrand / Dorma, Haffle, Dorset
37	Wood & PVC Work	Locks	Dorset, Sobeet, Godrej

APPENDIX-B

Sr. No.	Category	Sub Category	Brand Name
38	Wood & PVC Work	Door Seal – Wool pile Weather Strip	Enviro Seal, Anand Raddiplex
39	Wood & PVC Work	Door Handle (Concealed / Surface	Ingersolrand , Geze, Dorma, Alu Alpha
40	Wood & PVC Work	Metalic Steel Fire Door	Naviar,Shakti Met,Promat , Godrej ,Adhunik,Basic Arch Products, Radiant, Signum
41	Wood & PVC Work	Fire smoke Seal	Hilti, CFS, SPWB Joints Spray
42	Wood & PVC Work	Fire Rated Hardware	Ingersolrand, Gaze, Dorma
43	Wood & PVC Work	Non Metalic Fire Door	Naviar / Promat, Signum
44	Wood & PVC Work	Metallic Door	Shakti Met / Promat, Signum
45	Wood & PVC Work	Metallic Window	Shakti Met
46	Wood & PVC Work	Stainless Steel Screws for fabrication and fixing of windows	Kundan/ Puja/ Atul
47	Wood & PVC Work	Two or Four Point locking Openable Window Handle	Gize, Alu Alpha
48	Wood & PVC Work	Butt Hinges openable Window shutters	Haffle, Alu Alpha
49	Wood & PVC Work	Mild Steel Butt Hinges/ Piano Hinges	Jolly, Garg,AMIT, ASI Supreme
50	Wood & PVC Work	Nuts Bolts /Screws	Kundan/ Puja/ Atul
51	Wood & PVC Work	Concealed Tower Bolt	Ingersolrand, Alu Alpha
52	Wood & PVC Work	Patch Fitting	Ingersolrand, Dorma, Geze
53	Wood & PVC Work	Double Side Tab, Decoretive Tab	3M
54	Wood & PVC Work	UPVC Joinery	Fenesta, Veka, Euro plast, Aluplast, Amon Ra
55	Wood & PVC Work	Acoustic Insulation	U.P. Twiga Ltd, Lloyd, Saint Gobain, Ecophone
56	Wood & PVC Work	Glass	Saint Gobain, AIS ,Asahi, Pilkington, Modi, Guardian Glass
57	Wood & PVC Work	Clear Float Glass	AIS Glass/ Saint Gobain/ Modiguard

APPENDIX-B

Sr. No.	Category	Sub Category	Brand Name
58	Wood & PVC Work	Source for tempering Refl. Glass /Clear	GSC Toughened / Gold Plus/ Gurind/ Art “n” Glass/ Impact Safety
59	Wood & PVC Work	Glass (Toughened)	Saint Gobain/ Modi Float/ Asahi Float
60	Flooring work	Vitrified Ceramic Tiles	Diamontile , Marbo Granit, Granamite,Boss, NITCO, AGL, Euro, Somany, Orient Bell, Kajaria, Simpolo, Ricasil Ceramic, Swastik, Crystal
61	Flooring work	Precast mosaic & P.C. Tiles	NITCO/ MODERN
62	Flooring work	Industrial Tile	Endura
63	Flooring work	Glazed Ceramic Tiles	Orient Bell, Kajaria, Nitco, Somany, Swastik, AGL, Euro,
64	Flooring work	Timber flooring	Par-Ky, Ego flooring, Beutex
65	Flooring work	False Floor	Hewetson, Unifloor, Unitile
66	Flooring work	Perquet Floor	Nemo / Prima/ Pergo
67	Flooring work	Floor Springs	Ingersolrand /Dorma/ GEZE
68	Flooring work	Rubber Tile Flooring	Ecoflex Surfaces Pvt. Ltd., Rudi Sports Surfaces, The Floorsmiths
69	Flooring work	Granamex Tiles	Vyara Tiles Pvt. Ltd.. Super Decorative Floorings Pvt. Ltd., Sai Enterprises
70	Flooring work	Interlocking Concrete Blocks	Vyara Tiles Pvt. Ltd.. Super Decorative Floorings Pvt. Ltd., Sai Enterprises, Hindustan Tiles, Nimco Prefab,R.K. Tiles.
71	Finishing Works	Gypsum Plaster	St. Gobain, Permaboard, Vinayak gypsum
72	Finishing Works	White washing lime	Dehradun (Source)
73	Finishing Works	Paint/primer/oil bound distemper Acrylic paint	Asian Paints, ICI, Hindustan, Godavari Paints, Nerolac, Dulux, Spectrum, Unitile , Berger, Aero paints, Jotun
74	Finishing Works	Water proof cement paint	Snowcem India Ltd, Asian Paints, Berger, Nitco Cem
75	Finishing Works	Fire Retardant paint	Jotun, Hilti, Akzonobel,
76	Finishing Works	Mirror	Modi Guard, Saint Gobain

APPENDIX-B

Sr. No.	Category	Sub Category	Brand Name
77	Finishing Works	Anti Corrosive Bitumastic Paint	Asian/Burger/J&N
78	Finishing Works	Epoxy Paint	Asian / Berger / J&N
79	Finishing Works	Epoxy Coating	BASF
80	Finishing Works	Silicon Coating	BASF & Dowcorning
81	Sanitary ware	Vitreous China Sanitaryware	Cera, Roca, Parryware
82	Sanitary ware	Concealed Flushing Cisterns	Cera, Roca, Parryware
83	Sanitary ware	European water closet	Parry ware , Hindware , Cera
84	Sanitary ware	Sensor Operated Flushing System	Cera, Roca, Parryware
85	Sanitary ware	Seat covers (Heavy Duty)	Parry ware , Hindware , Cera
86	Sanitary ware	Flat Back Urinal (Sensor Operated)	Cera, Roca, Parryware
87	Sanitary ware	Urinal	Parry ware , Hindware , Cera
88	Sanitary ware	Wash basin	Hindware, Parryware, Jhonson Topaz
89	Sanitary ware	SEMI-RECESSED BASIN	Hindware, Duravit, Raknova
90	Sanitary ware	Bath Tub	Kohler, Parryware, Hindware
91	Sanitary ware	Bath Tub Mixer	Kohler, Jaquar, Hindware
92	Sanitary ware	Telephonic Shower	Parryware, Jaquar, Hindware
93	Sanitary ware	C.P fittings & Bathroom accessories	Jaquar , Parry ware , Hindware,ROCA,Cera
94	Sanitary ware	Geayser	Racold, venus wave,AO smith jaquar
95	Sanitary ware	Health Faucet	Jaquar, Kohler, Schell, Parryware, Ess
96	Sanitary ware	Soap Dispensar	Jaquar, Roca, Cera
97	Sanitary ware	Flow Regulator Devices	Arco

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Sr. No.	Category	Sub Category	Brand Name
98	Sanitary ware	Stainless Steel Sink	Nirali, Franke, Parry Ware, Cera, Jayna, Amc, Neelkanth
99	Sanitary ware	C.P Bottle Trap	Jaquar, Roca, Kohler, Parryware, Ess
100	Sanitary ware	Sink mixer with regular swinging spout	Jaquar, Ess, Grohe
101	Sanitary ware	Basin mixer	Jaquar, Hindware, ESS
102	Sanitary ware	Waste coupling	Jaquar, Hindware, Parryware
103	Sanitary ware	C.P. Grating	GMGR , Chilly , Viking
104	Sanitary ware	CP / SS Grating for Floor Trap & Floor Drain	Neer, Aco, Vijay
105	Sanitary ware	Stainless Steel (304) Square Frame Grating	Noway, Chilly, Camry
106	Sanitary ware	Strainer	RB, Intervolve, Zoloto, VB
107	Sanitary ware	C.I Strainer more than 65mm dia.	Leader, Kartar, Sant
108	Sanitary ware	Cast Brass Clean Out Plugs	GMGR, Neer, Viking
109	Sanitary ware	Concealed stop cock	Jaquar, Hindware, ESS
110	Sanitary ware	Shower arm, rose	Jaquar, Hindware, ESS
111	Sanitary ware	Bath spout with wall flange	Jaquar, Parry ware, Hindware
112	Sanitary ware	4way diverter concealed fitting, with built in non return valves and diverter handle	Jaquar , Parry ware , ESS
113	Sanitary ware	Double coat hook	Jaquar, Hindware
114	Sanitary ware	Towel Rack (600mm)	Jaquar, Hindware, Parryware
115	Sanitary ware	Towel Ring	Jaquar, Ess, Parryware

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Sr. No.	Category	Sub Category	Brand Name
116	Sanitary ware	Toilet Paper Holder	Jaquar, Hindware, Ess
117	Sanitary ware	Grab Bar	Jaquar,Hindware
118	Sanitary ware	Urinal Push Cock	Jaquar , Parry ware
119	Sanitary ware	ANGLE COCK	Jaquar, Hindware, Parryware
120	Sanitary ware	Piller COCK	Jaquar, Ess, American Standard-Cella
121	Sanitary ware	Soap Dish	Jaquar, Hidware, Parryware
122	Sanitary ware	Two way Bib cock	Jaquar, Ess, Parryware
123	Sanitary ware	C.P Angle Valve	Jaquar, Roca, Kohler
124	Sanitary ware	Ball Valve	Rb , Intervolve , Zoloto , VB, Arco, Sant, Kartar
125	Sanitary ware	GM Peet Valve	RB , Intervolve , Zoloto , VB
126	Sanitary ware	GM Wheel Valve	RB , Intervolve , Zoloto , VB
127	Sanitary ware	Pressure Reducing Valves	Hawa , Kirloskar , Sant , VB, zoloto, RB
128	Sanitary ware	Butterfly valves	RB , Intervolve , Zoloto , VB, KSB, Kartar, SKS, Delval, Audco, Intervolve
129	Sanitary ware	Float valve (C.I)	Leader,Sarkar
130	Sanitary ware	Gate valve	Zoloto,neta,leader
131	Sanitary ware	G.M. Non return valve	RB , Intervolve , Zoloto , VB
132	Sanitary ware	C.I. Non return valve	RB , Intervolve , Zoloto , VB
133	Sanitary ware	Flap Type Check Valve	hawa , Intervolve , Audco
134	Sanitary ware	Solenoid Valve	Rotex , Asco , Switzer , Intervolve
135	Sanitary ware	Automatic Air vent	Hawa , RB, Zoloto
136	Sanitary ware	Stoneware pipes/Gully traps	Rajora , Equivalent

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Sr. No.	Category	Sub Category	Brand Name
137	Sanitary ware	SWR Pipe & Fittings type B (for internal drainage)	Supreme, Finolex, Prince Pipes, Ashirwad, Kisan
138	Sanitary ware	SWR Pipe & Fittings type A (for Rain water upto 160mm dia)	Supreme, Finolex, Prince Pipes, Ashirwad, Kisan
139	Sanitary ware	UPVC pipes/fittings	Supreme , Finolex , Prince Pipes, Jain Pipes
140	Sanitary ware	UPVC ASTM pipes	Supreme, Surya Roshni, Finolex
141	Sanitary ware	CPVC Pipes and Fittings	Astral, Ajay, Ashirwad Pipes, Supreme, Prince Pipes
142	Sanitary ware	Foamcore/ Multilayered Pipes	Ashirwad, Prince Pipes, Astral, Ajay
143	Sanitary ware	Copper Pipes	Rajco, Maxflow
144	Sanitary ware	G.I. Pipes / M.S. Pipe	Tata , Jindal , Zenith, Surya Roshni
145	Sanitary ware	G.I. fittings (malleable cast iron)	Unik , R Brand , Zoloto M , Unco,KS
146	Sanitary ware	C.I. fittings	Neel, Kartar, Sarkar
147	Sanitary ware	C.I pipe & Fittings	Neco, Skf, Nagpur Foundries
148	Sanitary ware	Sand Cast Iron Pipes & fittings	Neco, Rif, Hepco, Nagpur Foundries
149	Sanitary ware	HDPE pipes For Internal Drainage	Supreme, Jain Pipes, Eonn Plast
150	Sanitary ware	RCC NP2 Class Pipe	Pranali, Shreeji, Pawan
151	Sanitary ware	PVC KHURRA	SUPREME, Prince, FINOLEX
152	Sanitary ware	Pressure Guage	H. Guru / Forbes Marshall / Waaree,wika,fiberg
153	Sanitary ware	RCC Grating	Pratibha / Alcock/ KK Manhole
154	Sanitary ware	Electronic Flow Meter	Rockwin / Aquamate
155	Sanitary ware	Water Level Controller	Technica / Waaree

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Sr. No.	Category	Sub Category	Brand Name
156	Sanitary ware	Water Level Indicator	Technica / Waaree
157	Sanitary ware	Grating K.K.Manhole	Jain spun pipe / Pragati
158	Sanitary ware	C.I manhole cover & framing	Neco, bengal iron corporation
159	Sanitary ware	FRP manhole cover & frame	KK Manhole, Aesthetic Pavers, Automatic Tiles
160	Sanitary ware	Water Meter	Kay Cee / Kent / Desmesh
161	Sanitary ware	R.C.C Pipe	Jain Spun Pipe, Pranali, Ameya Concretech, Pawan Concrete
162	Sanitary ware	Pipe Supports	Hangers Intello Tech / GMGR / Chilly
163	Sanitary ware	Insulation	Thermaflex / Armaflex / Kiflex
164	Sanitary ware	Solar System	TATA BP/Racold/Jain solar/Sudarshan
165	Sanitary ware	Storage Type Hot Water Heater	Venus / Bajaj / Racold
166	Sanitary ware	Pre-Fabricated Structural supports and clamps	CHILLY,EASYFLEX,CAMRY
167	Sanitary ware	pumps	Grundfos, ITT, DP
168	Aluminum Work	Aluminium Systems/ Anodized aluminum fittings for doors/windows	Indal, Hindalco, Bhoruka, Midi, Royal Touch, Alufit(Sapa), Kawneer, Schueco, Reynaers, Crown, ALANS, Classic, Bharat, Argent
169	Aluminum Work	Aluminium Cleat arrangement for Glazings / Cur. Wall size	Samples to be got approved by Engineer- in charge.
170	Aluminum Work	Aluminium Sections	Hindalco/ Jindal/ Mahavir/ Indal
171	Aluminum Work	E.P.D.M. Gaskets	Anand/ Roop/Bohra/Hanu
172	Water Proofing	Water proofing compound	CICO, Pidilite, Laticrete
173	Water Proofing	Membrane Waterproofing system	BASF, STP limited, Texsa, W R Grace
174	Water Proofing	Chemical Waterproofing system	BASF, MC-Bauchemie, Sika, Sunanda Specialty Coatings, Perma Construction

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Sr. No.	Category	Sub Category	Brand Name
			Aid Pvt. Ltd.
175	Water Proofing	Water stops	Hydrotite, BASF, Hydroswell
176	Landscaping & Irrigation	Garden Benches	Saflow Products Pvt. Ltd., Kanha Import Export Pvt. Ltd., Shardha Metalic, Baijnath
177	Landscaping & Irrigation	Granite Benches	Jayantilal & Co., Jayant Minerals Pvt. Ltd., Ambaji Stones Décor Pvt. Ltd.
178	Landscaping & Irrigation	Versicell Mat	ZTC International Landscape Solutions Pvt. Ltd., Hesda Solutions, Matrix Solutions
179	Landscaping & Irrigation	PVC Perforated Pipes	Rex Polyextrusion Ltd., Akash Enterprises, Zenplas Pipes Pvt. Ltd.
180	Landscaping & Irrigation	Play equipments	Koochie, Playworld Systems, Kompan
181	Ready Mix Concrete	Ready Mix Concrete	ACC, RMC, Ultra tech
182	Miscellaneous	Structural Sealant	Wacker, Dow Corning, GE
183	Miscellaneous	Polysulphide sealant	Pidilite, Chemetall-Rai
184	Miscellaneous	Bitumen Impregnated Board	Shalitex
185	Miscellaneous	Polyethylene back up rod	Supreme Ind. Ltd.
186	Miscellaneous	Epoxy	Fosroc/ STP/ CICO/ Ardex
187	Miscellaneous	False Ceiling Members(Perimeter, ceiling section, intermediates, angles etc.)	Gyp. Steel of India Gypsum Ltd
188	Miscellaneous	Welding rod	ADVANI
189	Miscellaneous	MS black enameled/galvanized ERW conduits	AKG, BEC, Steelkraft
190	Miscellaneous	Toilet Cubical	Merino
191	Miscellaneous	Metal Deck Sheet	TATA/ SAIL

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Sr. No.	Category	Sub Category	Brand Name
192	Miscellaneous	Shear Stud/ Connector	KOCO
193	Miscellaneous	Clamp, Rebar, Chemical fastner	Hilti, Fischer, Wurth
194	Miscellaneous	Anchor Fasteners / bolts	Hilti, Fischer, Halfen
195	Miscellaneous	Masking Tapes	3M, Sun Control/ Wonder Polymer
196	Miscellaneous	Dash Fasteners	SS grade, Hilti/
197	Miscellaneous	Stainless Steel Bolts, Washers and Nuts	Kundan/ Puja/ Atul
198	Miscellaneous	Stainless Steel Pressure Plate Screws	Kundan/ Puja/ Atul
199	Miscellaneous	Stainless Steel Friction Stay	Hetish, Haffle, Securistyle
200	Miscellaneous	Weather Silicon make and grade	Dow Corning/ Momenitive (GE)
201	Miscellaneous	Structural Silicon	Dow Corning/ Momenitive (GE)
202	Miscellaneous	Backer Road	Supreme Industries Ltd
203	Miscellaneous	GRC Jali	Terrafirma, Ecovision & Mahesh GRC
204	Miscellaneous	Tensile fabric System	Ferrari, Mehler, MakMax
205	Miscellaneous	Stainless Steel	Jindal, SAIL, Golden
206	Miscellaneous	Polycarbonate Sheet	Danpalon, Alcox, Polygal, V. A. Corporation, Joy Fab, Yadav Engineering
207	Miscellaneous	Post tensioning system	VSL, Utracon, BBR
208	Miscellaneous	PT strands	DP Wires, Tata, Usha Martin
209	Miscellaneous	Prestressing Syatems	Dynamic Prestress (I)
210	Miscellaneous	Adhesives & Grouts	Bal, Laticrete, KeraKoll, Pidilite