



**E-TENDER FOR:**

**Name of Work:** Structural Repairs and up-gradation of Municipal Properties Babula Tank Control Office and Municipal Headquarters Situated at 'B'-Ward Compound, Ramchandra Bhatt Marg, Mumbai - 400009.

[Website: portal.mcgm.gov.in/tenders](http://portal.mcgm.gov.in/tenders)

**Office of: Deputy Hydraulic Engineer (Maintenance),  
Ghatkopar Yard, Kama lane,  
Ghatkopar (West), Mumbai- 400 086.**

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**SECTION 1**

**E-TENDER NOTICE**

# **MUNICIPAL CORPORATION OF GREATER MUMBAI**

**Hydraulic Engineer**

## **E-TENDER NOTICE**

**Bid No: 7100178505**

**Subject:** Structural Repairs and up-gradation of Municipal Properties Babula Tank Control Office and Municipal Headquarters Situated at 'B' Ward Compound, Ramchandra Bhatt Marg, Mumbai - 400009.

The Municipal Corporation of Greater Mumbai (MCGM) invites e-tender to appoint Contractor for the aforementioned work from contractors of repute, multidisciplinary engineering organizations i.e. eminent firm, Proprietary/Partnership firm/Private Limited Companies/Public Limited Companies/Companies registered under the Indian Companies Act 2013, the Contractors registered with the Municipal Corporation of Greater Mumbai, (MCGM) in **Class "A" & category C – I as per old registration and Class IV as per new registration** and from the contractors/firms equivalent and superior classes registered in Central or State Government/Semi Govt. Organization/Central or State Public Sector Undertakings, will be allowed subject to condition that, the contractors who are not registered with MCGM will have to apply for registering their firm within three months' time period from the award of contract, otherwise their Bid Security i.e. **E.M.D (Earnest Money Deposit) will be forfeited/recovered and an amount equal to Registration Fee of respective class will be recovered as penalty.**

Bidding Process will comprise of THREE stages.

The application form can be downloaded from MCGM's portal (<http://portal.mcg.gov.in>) on payment of **Rs. 8085/- (Rs.7700+ 5% GST)**. The applicants not registered with MCGM are mandated to get registered (Vendor Registration) with MCGM for e- tendering process & obtain login credentials to participate in the online bidding process.

i) To download the application form, for those applicants not having vendor registration, need to apply first for vendor registration at the office of Account Officer (FAR), 3rd floor, Municipal Headquarter.

ii) Followed by SRM login ID and password to be obtained from Central Purchase Department (CPD), Office at Byculla, Bakariadda, Mumbai.

iii) For e-Tendering registration, enrolment for digital signature certificates and user manual, please refer to respective links provided in, Tenders tab. Vendors can get digital signature from any one of the Certifying Authorities (CA's) licensed by controller of Certifying authorities namely, Safes crypt, IDRBT, National informatics centres, TCS, CUSTOMS, MTNL, GNFC and e- Mudhra CA.

Name and location of work	Contract Period	Estimated Cost of Project
Structural Repairs and up-gradation of Municipal Properties Babula Tank Control Office and Municipal Headquarters Situated at 'B'Ward Compound, Ramchandra Bhatt Marg, Mumbai - 400009.	8 months (Excluding Monsoon)	<b>Rs. 1,43,44,265.47/-</b>

In terms of the 3 stage system of e-tendering, a Bidder will be required to deposit, along with its Bid, an Earnest Money Deposit of Rs. **1,43,443.00/- (Rupees One Lakh Forty Three Thousand, Four Hundred and Forty Three only)** refundable in accordance to the relevant clause of bid document, from the Bid Due Date, except in the case of the selected Bidder whose Bid Security/EMD shall be retained. The Bidders will have to provide Earnest Money Deposit through the payment gateways while submitting the bids. The Bid shall be summarily rejected if it is not accompanied by the Earnest Money Deposit. The e- tender is available on MCGM portal ([http://portal.mcg.gov.in.](http://portal.mcg.gov.in)) as mentioned in the Header Data of the tender.

As per Three Packet system, the document for packet A & B is to be uploaded by the bidder in vendors documents online in Packet A, B and for Packet C, bidder shall fill the data in item data tab in service line item via detail & quote his percentage figure variation. Packet A, B & C shall be opened on dated as mentioned in headed data. All the responsive and eligible bidders if they so wish can be present at the time of opening of bids, in the office of Hydraulic Engineer. The Packet C shall be opened if bids submission in Packet A& B satisfies/includes all the requirements and same are found acceptable to the Authority.

The Municipal Commissioner reserves the right to reject all or any of the e- tender(s) without assigning any reasons at any stage.

The dates and time for submission and opening the bids are as shown in the Header Data. If there are any changes in the dates the same will be displayed on the MCGM Portal. (<http://portal.mcg.gov.in>)

The Applicants interested for the above referred works may contact the Dy. Hydraulic Engineer at the following address on any working day during office hours.

Office of the:-  
Deputy Hydraulic Engineer (Maintenance),  
Ghatkopar Yard, Kama lane,  
Ghatkopar (West), Mumbai- 400 086.

The applicants may wish to visit the site under reference located at HE's Properties near Babula Tank in B Ward and can collect the information of the present status from the department who have invited the bids.

The MCGM reserves the rights to accept any of the application or reject any or all the application received for above works, without assigning any reasons thereof. The information regarding above subject matter is available on Website of MCGM. (<http://portal.mcgm.gov.in/tenders>).

Sd/-

**Dy. H.E (Maint.)**

## HEADER DATA

Tender Document No	7100178505
Name of Organization	Municipal Corporation of Greater Mumbai
Subject	Structural Repairs and up-gradation of Municipal Properties Babula Tank Control Office and Municipal Headquarters Situated at 'B'Ward Compound, Ramchandra Bhatt Marg, Mumbai - 400009.
Cost of Tender	Rs.8085/- (7700 + 5% GST)
Cost of E-Tender(Estimated Cost)	<b>Rs. 1,43,44,265.47</b>
Bid Security Deposit/ EMD	<b>Rs. 1,43,443.00</b>
Date of issue and sale of tender	17.06.2020 from 11:00Hrs.
Last date & time for sale of tender & receipt of Bid Security Deposit	17.07.2020 upto12:00 Noon
Submission of Packet A, B & Packet C (Online)	17.07.2020 upto16:00Hrs.
Pre-Bid Meeting	29.06.2020 at 11.00 a.m. in conference room of H.E., Worli hub, Worli, Mumbai
Opening of Packet A	17.07.2020 After16:01Hrs
Opening of Packet B	17.07.2020 After16.10Hrs.
Opening of Packet C	31.07.2020 After15:00 Hrs.
Address for communication	Deputy Hydraulic Engineer (Maintenance), Ghatkopar Yard, Cama lane, Ghatkopar (West), Mumbai- 400 086.
Venue for opening of bid	On line in Executive Engineer (Civil) Maintenance office.

**This tender document is not transferable.**

The MCGM reserves the rights to accept any of the application or reject any or all the application received for above subject without assigning any reason thereof.

**Sd/-**

**Dy. H.E. (Maint.)**

**SECTION 2**

**ELIGIBILITY CRITERIA**

## **TECHNICAL CAPACITY**

The tenderer(s) in their own name should have satisfactorily completed the work of similar nature MCGM /Semi Govt. /Govt. & Public Sector Organizations during **last seven (7) years** ending last day of month previous to the date of issue of tender as a prime Contractor (or as a nominated sub-Contractor, where the subcontract had involved similar nature of work as described in the scope of works in this bid document, provided further that all other qualification criteria are satisfied)

### **Part A – Civil Work**

- a) **Three similar completed works each** of value not less than the value equal to **20%** of estimated cost put to tender i.e. **Rs. 28,68,853.09**  
**Or**
- b) **Two similar completed works each** of value not less than the value equal to **25%** of estimated cost put to tender i.e. **Rs. 35,86,066.36**  
**Or**
- c) **One similar completed work** of value equal and or not less than the **40% of** estimated cost put to tender i.e. **Rs. 57,37,706.18**

### **Financial Capacity**

Achieved an average annual financial turnover as certified by „Chartered Accountant “ (in all classes of civil engineering construction works only) equal to 30% of the estimated cost of work i.e. Rs. 43,03,279.64/- in last three (3) financial years immediately preceding the Financial Year in which bids are issued.

The value of completed works shall be brought to current costing level by enhancing the actual value of work at compound rate of 10 % per annum; calculated from the date of completion to last date of receipt of applications for tenders.

#### **1.3 Similar Experience: (Ref: CHE / BM / 019919 / II dated 07.01.2019)**

**For assessing the technical capacity major structural repairs / maintenance works and reconstruction / new construction works: similar work shall mean, the completed or ongoing works in Building Construction or Building Maintenance such as repairs / retrofitting / upgradation / structural repairs. Not to be insisted for “major structural repairs / maintenance works and reconstruction / new construction building works”.**

## **BID CAPACITY**

**The bid capacity of the prospective bidders will be calculated as**

**under: Assessed Available Bid Capacity = (A\* N\* 2 - B)**

Where,

**A** = Maximum value of Civil Engineering works executed in any one year (year means Financial year) during **the last five years** (updated to the price level of the Financial year in which bids are received at a rate of 10% per year) taking into account the completed as well as works in progress.

**N** = Number of years prescribed for completion of the Project/Works, **excluding monsoon period**, for which these bids are being invited. (E.g. 7 months = 7/12 year) For every intervening monsoon 0.33 shall be added to N.

**B** = Value of existing commitments (only allotted works) on the last date of submission of bids as per bidding document and on-going works to be completed during the period of completion of the Project/Works for which these bids are being invited.

Note: The statement showing the value of existing commitments and on-going works as well as the stipulated period of completion remaining for each of the works listed should be attached along with certificates duly signed by the Engineer-in Charge, not below the rank of an Executive Engineer or equivalent.

**Even though the bidders meet the above qualifying criteria, they are subject to be disqualified if they have:**

- made misleading or false representation in the forms, statements and attachments submitted in proof of the qualification requirements; and/or
- Record for poor performance such as abandoning the works, not properly completing the contract, inordinate delays in completion, ~~litigation history~~, or financial failures etc.

**SECTION 3**  
**DISCLAIMER**

## **DISCLAIMER**

The information contained in this e-tender document or provided to Applicant(s), whether verbally or in documentary or any other form, by or on behalf of the Municipal Corporation of Greater Mumbai (MCGM), hereafter also referred as “The Authority “, or any of its employees or advisors, is provided to Applicant(s) on the terms and conditions set out in this e-tender and such other terms and conditions subject to which such information is provided.

This e-tender includes statements, which reflect various assumptions and assessments arrived at by the Municipal Corporation of Greater Mumbai (MCGM) in relation to the Project. Such assumptions, assessments and statements do not purport to contain all the information that each Applicant may require. This e-tender may not be appropriate for all persons, and it is not possible for the Municipal Corporation of Greater Mumbai (MCGM), its employees or advisors to consider the investment objectives, financial situation and particular needs of each party who reads or uses this e-tender. The assumptions, assessments, statements and information contained in this e-tender may not be complete, accurate, adequate or correct. Each Applicant should therefore, conduct its own investigations and analysis and should check the accuracy, adequacy, correctness, reliability and completeness of the assumptions, assessments, statements and information contained in this e-tender and obtain independent advice from appropriate sources.

Information provided in this e-tender to the Applicant(s) is on a wide range of matters, some of which may depend upon interpretation of law. The information given is not intended to be an exhaustive account of statutory requirements and should not be regarded as a complete or authoritative statement of law. The Municipal Corporation of Greater Mumbai (MCGM) accepts no responsibility for the accuracy or otherwise for any interpretation or opinion on law expressed here.

The Municipal Corporation of Greater Mumbai(MCGM), its employees and advisors make no representation or warranty and shall have no liability to any person, including any Applicant or Bidder, under any law, statute, rules or regulations or tort, principles of restitution or unjust enrichment or otherwise for any loss, damages, cost or expense which may arise from or be incurred or suffered on account of anything contained in this e-tender or otherwise, including the accuracy, adequacy, correctness, completeness or reliability of the e-tender and any assessment, assumption, statement or information contained therein or deemed to form part of this e-tender or arising in any way with pre-qualification of Applicants for participation in the Bidding Process. The Municipal Corporation of Greater Mumbai (MCGM) also accepts no liability of any nature whether resulting from negligence or otherwise howsoever caused arising from reliance of any Applicant upon the statements contained in this e-tender.

The Municipal Corporation of Greater Mumbai (MCGM) may, in its absolute discretion but without being under any obligation to do so, update, amend or supplement the information, assessment or assumptions contained in this e-tender.

The issue of this e-tender does not imply that the Municipal Corporation of Greater Mumbai (MCGM) is bound to select and short-list pre-qualified Applications for Bid Stage or to appoint the selected Bidder or Concessionaire, as the case may be, for the Project and the Municipal Corporation of Greater Mumbai (MCGM) reserves the right to reject all or any of the Applications or Bids without assigning any reasons whatsoever.

The Applicant shall bear all its costs associated with or relating to the preparation and submission of its Application including but not limited to preparation, copying, postage, delivery fees, expenses associated with any demonstrations or presentations which may be required by The Municipal Corporation of Greater Mumbai (MCGM) or any other costs incurred in connection with or relating to its Application. All such costs and expenses will remain with the Applicant and the Municipal Corporation of Greater

Mumbai(MCGM) shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by an Applicant in preparation or submission of the Application, regardless of the conduct or outcome of the Bidding Process.

**SECTION 4**

**INTRODUCTION**

## **INTRODUCTION**

### **BACKGROUND:**

The Municipal Corporation of Greater Mumbai covers an area of 437.71sq.kms.with a population of **1.24 Crores as per census of 2011**. The metropolis accounts major portion of India's international trade and government's revenue, from being one of the foremost centres of education, science and technological research and advancement.

The Mumbai Metropolis has historic tradition of strong civic activism dedicated to the cause of a better life for all its citizens. And it is the Municipal Corporation of Greater Mumbai (MCGM), hereafter called the "corporation", is the primary agency responsible for urban governance in Greater Mumbai.

MCGM (The Authority) is one of the largest local self-governments 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, MCGM has mainly focused in providing almost all kinds of engineering services viz, Hydraulics, storm water drain, sewerage, water supply projects, roads, bridges, solid waste management, and environmental services. Beside this, the MCGM is also providing dedicated services in various segments such as Health, Primary Education as well as the construction and maintenance of Public Markets and Slaughter Houses.

MCGM is an organization having different departments, right from engineering depts. to health depts. Moreover we MCGM has other dept. like education, market, fire brigade dept., octroi and other such departments where quite a good number of staff members are working.

### **Scope of Work:**

MCGM is primarily an organization, which in the interest of citizens and with the speed of urbanization deals with the variety of the infrastructure services and delivered to the public by different departments like Water Supply Projects, Sewerage Projects, Hydraulics, Storm Water Drain/Roads and bridges and Building Construction etc.

**Project specific scope of work includes:**

Structural Repairs and up-gradation of Municipal Properties Babula Tank Control Office and Municipal Headquarters Situated at 'B'Ward Compound, Ramchandra Bhatt Marg, Mumbai - 400009.

1 (a) CONTROL ROOM:

1. Flooring and skirting needs to be refurbished in the main office and the main office. The vinyl finish is to be removed and mosaic tiles need to be conserved.
2. Windows / ventilators are broken at some locations. Needs to be refurbished / conserved. Window grills are corroded / buckled needs to be replaced with matching grills.
3. Doors are in bad condition due to dampness and needs to be replaced which matches with heritage structure
4. Door hinges are corroded / buckled and needs to be replaced.
5. Roofing coverings material needs to be replaced to resolve the leakage problem with the heritage material currently used i.e., mangalore tiles.
6. The glass of the skylights are broken and need to be replaced.
7. Plastering and finishing of external and internal walls is required.
8. Kitchen platform is to be repaired and additional sink to be provided.
9. Wall tilings above kitchen platform is to be redone and height of the tiling is to be taken full height.
10. Lockers are to be provided for staff.
11. Chajjas are to be provided at all windows and the external door.
12. Dado work is to be provided upto a height of 1.5 m all over the control room and full height dado work is to be provided in the washrooms.
13. The cabinet of electric panel in the back office needs to be changed.

1 (b) MUNICIPAL QUARTER 01:

1. Roofing coverings material needs to be replaced to resolve the leakage problem.
2. The main doors are to be replaced the rest of doors need to be conserved.
3. Plastering and finishing of external and internal walls is required.
4. The height of the dado work in the toilets needs to be increased.
5. The glass of the skylights are damaged and need to be replaced.
6. Mesh is to be provided to avoid birds entering the attic

### 1 (c) MUNICIPAL QUARTER 02:

1. Roofing coverings material needs to be replaced to resolve the leakage problem.
2. The main doors are to be replaced the rest of doors need to be conserved.
3. Plastering and finishing of external and internal walls is required.
4. The height of the dado work in the toilets needs to be increased.
5. The glass of the skylights are damaged and need to be replaced.
6. Mesh is to be provided to avoid birds entering the attic

### 2. FOR LEAK DETECTION CHOWKI:

1. Roofing material needs to be replaced with color coated sheet for frame and mangalore tiles to match the existing structure. The slope of the roof needs to be increased to prevent leakage.
2. Dado upto 1.50mt. ht. (Vitrified Tile with granite strip)
3. Internal and external plaster and painting works.
4. Vitrified flooring.
5. Steps in granite stone.
6. Toilet refurbishment includes changing of flooring tiles and dado, plumbing works, changing of doors and window jambs.
7. Providing Aluminum windows with granite frame, sill and M.S.Grill.
8. Providing open able shutters for loft.
9. Providing cupboards on Mezzanine floor.
10. Increase height by 0.6mtr.

### 3. FOR WATER MAINTENANCE DEPARTMENT:

1. Roofing material needs to be replaced with color coated sheet for frame and Mangalore tiles to match the existing structure. The slope of the roof needs to be increased to prevent leakage.
2. Internal and external plaster and painting works.
3. Level difference at the main door.
4. Construction of a washroom in the place of existing wash area in front of the chowki
5. Dado up to 1.50mt. ht. (Vitrified Tile with granite strip)
6. Repair works of existing doors and windows.

#### 4. FOR WATER MAINTENANCE DEPARTMENT - STORE:

1. Roofing material needs to be replaced with color coated sheet for frame and mangalore tiles to match the existing structure. The slope of the roof needs to be increased to prevent leakage.
2. Internal and external plaster and painting works.
3. Construction of a toilet with bath area to be provided in the Store area.
4. Construction of a partition wall in order to enclose the storage space.
5. Doors are to be conserved, repaired and a double door to be placed on the internal door frame.
6. Changing all windows.
7. Providing storage areas with locker facility for workers.
8. Dado up to 1.50mt. ht. (Vitrified Tile with granite strip).

#### 5. FOR WORKERS DEPARTMENT CHOWKI:

##### A. WORKERS DEPARTMENT CHOWKI 01:

1. Roofing material needs to be replaced with color coated sheet for frame and Mangalore tiles to match the existing structure. The slope of the roof needs to be increased to prevent leakage.
2. Internal and external plaster and painting works.
3. Providing a store for tools and a cupboard to be provided with a storage cabinet with seating space.
4. To cover mezzanine above the washroom.
5. Provision of storage space with a door.
6. Kota stone finish for floors in the chowki.

##### B. WORKERS DEPARTMENT CHOWKI 02 & 03:

7. Roofing material needs to be replaced with color coated sheet for frame and Mangalore tiles to match the existing structure. The slope of the roof needs to be increased to prevent leakage.
8. Internal and external plaster and painting works.
9. Providing a store for tools and a cupboard to be provided with a storage cabinet with seating space.
10. To cover mezzanine above the washroom.
11. Provision of storage space with a door.
12. Kota stone finish for floors in the chowki.

6 (a) GROUND FLOOR STORE ROOM:

1. Roofing material needs to be replaced with color coated sheet for frame and mangalore tiles to match the existing structure. The slope of the roof needs to be increased to prevent leakage.
2. Internal and external plaster and painting works.
3. Change all flooring
4. Replace the R.S. Shutter.
5. The existing niches to be converted into cupboards to be used as storage space .
6. Ventilators to be repaired.
7. Replace wash basin.

6 (b) WATER WORKS MAINTENANCE:

1. Construction of walls above 2.20mtr. after removal of ply.
2. Change all flooring.
3. Replace new storage cabinet of 2.20m height, in place of existing cabinets.

7. ASSISTANT ENGINEER WATER WORKS:

1. Replacing all sliding windows
2. Repairs in storage space
3. Using granite in window sill.
4. Storage cabinets of 1.30mtr. height in the front room
5. Some cupboards to be provided up to slab level.
6. Platform to be provided under the wash basin

**SECTION 5**

**E-TENDERING ONLINE  
SUBMISSION PROCESS**

## **E-TENDERING ONLINE SUBMISSION PROCESS**

### **TENDER DOCUMENT:**

E-Tender document is not transferable. Tenderers are requested to read carefully the following directions, terms and conditions of the contract. Tenderer has to sign the form of tender, annexure, specifications and bill of quantities and rates etc. after making appropriate entries wherever necessary, before uploading the scanned copies of these various documents of tender. All entries should be in clear writing and legible. Any corrections made by the tenderer in his entries must be attested by the signatory. E-Tenders containing erasures or alterations not so attested or written in illegible form are liable to be rejected. Contents of the tender documents are as per Index page.

### **COST OF e-TENDERING**

*The Corporation shall not defray expenses incurred by any tenderer(s) in tendering and shall not be bound to accept the lowest or any tender.* The tenderer(s) shall bear all costs associated with the preparation and submission and uploading of his Tender, and the Employer will in no case be responsible and liable for those costs.

### **INVITATION OF e-TENDER:**

The Municipal Commissioner for and on behalf of the Municipal Corporation of Greater Mumbai, hereinafter referred as „The Corporation“ will receive tender for the above work by electronic mode i.e. internet through respective M.C.G.M website.

### **LANGUAGE OF e-TENDER:**

E-Tender shall be written in English, information in any other language shall be accompanied by its translation in English. Only English text shall be governing in e-tendering.

### **PROCESS TO BE CONFIDENTIAL:**

Information relating to the examination, clarification, evaluation and comparison of tender and recommendations for the award of a contract shall not be disclosed to e-tenderers or any other persons not officially concerned with such process until the award to the successful tenderer has been announced. Any effort by a tenderer to influence the Employer's processing of tenders or award decisions may result in the rejection of his tender, and his disqualification.

The terminology of e-Tendering is solely depending upon policies in existence, guidelines and methodology adopted since decades. The SRM is only change in process of accepting and evaluation of tenders in addition to manual. The SAP module to be used in this E-tendering is known as Supplier Relationship Module (SRM).SRM is designed and

introduced by ABM Knowledge ware Ltd. who will assist MCGM in throughout the tendering process for successful implementation.

**NOTE:** This tendering process is covered under Information Technology ACT & Cyber Laws as applicable In e-tendering process some of the terms and its definitions are to be read as under wherever it reflects in online tendering process.

Start Date read as “Sale Date”

End Date read as “Submission Date”

Supplier read as “Contractor/bidder”

Vendor read as “Contractor/bidder”

Vendor Quotation read as “Contractors Bid/Offer”

Purchaser read as “Department/MCGM”

I. Before entering in to online tendering process, the bidders should complete the registration process so as to get User ID for E-tendering links. For this, the bidders can access through Supplier registration via MCGM Portal.

There are two methods for this registration :( II and III)

II. Transfer from R3 (registered contractors with MCGM) to SRM

- a. Contractors already registered with MCGM will approach to Vendor Transfer cell.
- b. Submit details such as (name, vendor code, address, registered Email ID, pan card etc.) to Vendor transfer cell.
- c. MCGM authority for Vendor Transfer, transfers the Vendor to SRM application from R3 system to SRM system.
- d. Transferred Vendor receives User ID creation link on his supplied mail Id.
- e. Vendor creates his User ID and Password for e-tendering applications by accessing link sent to his mail ID.

III. Online Self Registration (Temporary registration for applicant not registered with MCGM)

- a. Vendor fills up Self Registration form via accessing MCGM portal.
- b. Vendor Transfer cell (same as mentioned above) accesses Supplier Registration system and accepts the Vendor request.
- c. Accepted Vendor receives User ID creation email with Link on his supplied mail Id.
- d. Vendor creates his User ID and Password for e-tendering application.

#### IV. CONTRACTORS BIDDING: Applicant will Quote and Upload Tender Documents

1. Access e-tender link of SRM Portal
2. Log in with User ID and Password
3. Selects desired Bid Invitation (he wants to bid)
4. To download tender documents bidders will have to pay online Tender fee. The same can be done by accessing Pay Tender Fees option. By this one will be able to pay Tender fee through Payment Gateway-If transaction successful, bidders can register his interest to participate. Without Registration one cannot quote for the Bid/Tender.
5. Applicant will download Tender Documents from Information from purchaser tab by accessing Purchaser document folder through collaboration „C“ folder link.
6. Applicant will upload Packet **A** related and Packet **B** related Documents in Packet **A** and Packet **B** folder respectively by accessing these folders through “My Notes” Tab and collaboration folder link.
7. All the documents uploaded have to be digitally signed and saved. Bidders can procure there digital signature from any certified CA“s in India.
8. Bid security deposit/EMD and ASD, if applicable, should be paid online as mentioned in tender.
9. For commercial details (in Packet **C**) bidders will fill data in Item Data tab in Service Line Item via details and quotes his “Percentage Variation” (i.e. % quoted) figure.(If entered „0“it will be treated as at par. By default the value is zero only.
10. Applicants to check the bid, digitally signs & save and submit his Bid Invitation.
11. Applicants can also save his uploaded documents/commercial information without submitting the BID for future editing through „HOLD“ option.
12. Please note that “Hold” action do not submit the Bid.
13. Applicants will receive confirmation once the Bid is submitted.
14. Bid creator (MCGM) starts Bid Opening for Packet **A** after reaching End Date and Time and Bid Evaluation process starts.

As per Three Packet system, the document for Packet **A & B** is to be uploaded by the tenderer in 'Vendor's document' online in Packet A & B. Before purchasing/ downloading the tender copy, tenderer may refer to post- Qualification criteria mentioned in e-Tender Notice.

The tenderer shall pay the EMD/Bid Security through payment gateways before submission of Bid and shall upload the screenshot of receipt of payment in Packet "A" instead of paying the EMD at any of the CFC centres in MCGM Ward Offices.

The e-tender is available on MCGM portal, <http://portal.mcg.gov.in>, as mentioned in the Header Data of the tender. The tenders duly filled in should be uploaded and submitted online on or before the end date of submission. The Packet "A", Packet "B" & Packet "C" of the tenderer will be opened as per the time-table shown in the Header Data in the office of Hydraulic Engg.

The Municipal Commissioner reserves the right to reject all or any of the e-Tender(s) without assigning any reason at any stage. The dates and time for submission and opening the tenders are as shown in the Header Data. If there are any changes in the dates the same will be displayed on the MCGM Portal (<http://portal.mcg.gov.in>).

**SECTION 6**  
**INSTRUCTIONS TO**  
**APPLICANTS**

## INSTRUCTIONS TO APPLICANTS

### Scope of Application

The Authority wishes to receive Applications for Qualification in order to select experienced and capable Applicants for the Bid Stage.

### Eligibility of Applicants

The Municipal Corporation of Greater Mumbai (MCGM) invites e-tender to appoint Contractor for the aforementioned work from contractors of repute, multidisciplinary engineering organizations i.e. eminent firm, Proprietary/ Partnership Firms/ Private Limited Companies/ Public Limited Companies/ Companies registered under the Indian companies" act 2013, the contractors registered with the Municipal Corporation of Greater Mumbai, (MCGM) in **Class "A" & category C – I as per old registration and Class IV as per new registration** and from the contractors/firms equivalent and superior classes registered in Central or State Government/Semi Govt. Organization/Central or State Public Sector Undertakings, will be allowed subject to condition that, the contractors who are not registered with MCGM will have to apply for registering their firm within three months" time period from the award of contract, otherwise their Bid Security i.e. E.M.D (Earnest Money Deposit) will be forfeited/recovered and an amount equal to Registration Fee of respective class will be recovered as penalty.

### Classes available for Civil Contractors (As per old registration rules)

#### Category Criteria

Category	Description of work
Building C-I	Building & allied works, pile foundation, precast or cast in situ concrete works, diaphragm walls, ground anchors and allied works, water proofing, leak proofing of various types of structures.
Bridges C-II	Bridges including road over bridges, flyover, foot over bridges, subways and culverts.
Roads C-III	Road works of various types including storm water drains culverts and training/ de-silting of nallas, underground storm water drains.
Water Supply C-IV	Laying of water mains, rising mains, water pumping stations, reservoirs, head works.
Sewerage C-V	Laying of sewers, rising main & underground storm water drains, sewage pumping stations, treatment plants, outfalls etc.

## OLD Class

Class available according to the limits of works, amount of solvency, registration fees & amount of standing deposit prescribed for each class.

Class	Works limit	Solvency amount	Scrutiny fees	Registration fees	Renewal fees	Standing deposit
	Rs.	Rs.	Rs.	Rs	Rs.	Rs.
		(In Lakhs)				
AA	Without limit	60	2000	4000	2000	7,50,000.00
A	Up to 3 crores	30	2000	4000	2000	4,50,000.00
B	Up to 1 Crore	20	1000	2000	1000	3,00,000.00
C	Up to 50 lakhs	15	1000	2000	1000	1,50,000.00
D	Up to 25 lakhs	10	1000	2000	1000	1,12,500.00

## NEW Class Criteria:- General information

### Minimum Financial & organizational requirements for civil engineering discipline (Rs. in Lakhs)

Sr. No.	Class	Upper limit of tendering	Minimum Solvency	Total Turn-over in Last 3years	Cost of single work completed within last three years	No. of Civil Engineers Employee
1.	I(A)	Without limit	200	4000	1500	4 Graduate with 5 years or 1 Graduate with 5 years & 5 Diploma holder with 7 years experience
2	I(B)	2500	175	2500	750	3 Graduate with 5 years or 1 Graduate with 5 years & 4 Diploma holder with 7 years experience

3	I ( C )	1500	150	1500	300	3 Graduate with 5 years or 1 Graduate with 5 years & 4 Diploma holder with 7 years experience
4	II	750	100	750	150	2 Graduate with 3 years or 1 Graduate with 3 years & 3 Diploma holder with 5 years experience
5	III	300	75	300	90	2 Graduate with 3 years or 1 Graduate with 3 years & 2 Diploma holder with 5 years experience
6	IV	150	40	150	50	1 Graduate with 1 years OR 1 diploma holder with 3 years experience
7	IV (A)	90	25	90	30	1 Graduate with 1years OR 1 diploma holder with 3 years experience
8	V	50	15	50	15	1 Graduate with 1years OR 1 diploma holder with 3 years experience
9	V (A)	30	8	00	0	1 fresh Graduate OR 1 fresh diploma holder
10	VI	15	2	00	0	1 fresh Graduate OR 1 fresh diploma holder
11	VII	10	1	0	0	1 fresh Graduate OR 1 fresh diploma holder
12	VIII	5	0.5	0	-	1 fresh Graduate OR 1 fresh diploma holder
13	IX	3	0.25	-	-	1 fresh Graduate OR 1 fresh diploma holder

**Note:** 1) A Solvency certificate registered beyond 12 months from the date of its issue will not be considered. Certificate of solvency (in Hindi/Marathi/English) shall be obtained from scheduled or Nationalise Bank, in the name of applicant/ Firm/Company only.

2) Turn - over shall be supported with work completion /performance certificate of civil works only. In case of works carried out in Private organization; T.D.S. certificate is essential & certificate from licensed Architect is necessary.

3) Cost of single work criteria will be governed as given in following table.

**Equipment capability:**

Sr. No.	Equipment Owned	Requirements
1	Mortar mixer	2 Nos.
2	Sand washing machine	1 No.
3	Vibrators (Needle)	2 Nos.
4	Concrete mixer	1 No.
5	Compressive strength testing machine	1 No.

**Note:**

1. Bidders shall submit the undertaking for equipment capability and other undertaking as such on a single Rs.500/stamp paper.

**Technical Personnel**

The contractor and/or its managerial staff should have qualification/experience appropriate to the function they fulfil. The minimum standard shall be increased by asking that at least one number or more of the contractor or its managerial staff have acquired qualifications or work experience to the needs of the contract. The minimum standard may also state that the person or persons responsible for managing the works must have a minimum of no“s of years” experience working on similar nature of projects. For fixing requirement of Technical Staff as required for this work.

Cost of work (Rs in Crore)	Requirement of Technical Staff	Minimum Experience(year)		Designation
Qualification		Number		
<b>Up to 1.5 cr</b>	i)Graduate Engineer	1	10	Principal Technical Representative
	ii)Diploma Engineer	5	5	Project/Site Engineer/Billing Engineer

**Notes- 1** “Cost of work”, in table above, shall mean the agreement amount of the work.

**2.** Rate of recovery in case of non-compliance of the clause be stipulated at following rates.

Sr. No.	Qualification	Experience (years)	Rate of Recovery
1	Project Manager with degree	10	Rs.30000/-p.m.
2	Graduate Engineer	5	Rs.25000/-p.m.
3	Graduate Engineer	2	Rs.15000/-p.m.
4	Diploma Engineer	5	Rs.15000/-p.m.

3. Nothing extra need to be added while preparing market rate justified amount of the work if stipulation is made as per above recommended scale of technical staff.
4. Requirement of technical staff and their experience can be varied depending upon cost and complexity of the work by competent authority i.e. Hydraulic Engineer with recorded reasons.
5. The failure in providing experienced technical and /professional ability personnel and even ignoring the instruction of the Engineer-in-charge shall be linked to penalization. Such disobeying attitude of the contractor shall also be reported dto Vigilance/ Registration & Monitoring department.

### **TIME PERIOD OF THE PROJECT:**

Entire project should be completed and delivered within **8 Months (Eight)** month time from the date of award of contract that **Excluding Monsoon**. The time allowed for carrying out the work as entered in the Tender shall be strictly observed by the Contractor and shall be reckoned from the date on which the Letter of Acceptance is given to the Contractor. The work shall throughout the stipulated period of the Contract be proceeded with all due diligence as time being deemed to be the essence of the contract on the part of the Contractor. On failing to do so, the Contractor shall pay as compensation an amount which shall be governed as per Clause - 8 (e) of Standard General Conditions of Contract.

The Contractor should complete the work as per phase given below: Full work will be completed in **8 Months (Eight) excluding monsoon**.

The programme for completion of work shall be a part of the Contract Document in the form of Bar Chart / Gantt chart. The Contractor is supposed to carry out the work and keep the progress as per Bar Chart/GANTT Chart. The Contractor shall complete the work as per the Schedule given in the Contract and the programme submitted by the Contractor.

### **6.9. Contract Execution**

All required documents for execution of the contract shall be submitted within 30 days from the date of issue of letter of acceptance. If the documents are not submitted within the stipulated time a penalty of Rs. 5000/- per day will be applicable to the contractor. All contract documents need to be duly affixed with stamp duty properly signed along with evidence/proof

of payment of security/contract deposit/ within 30 days from the date of letter of acceptance received by him.

If the amount of the Contract Deposit to be paid above is not paid within 30 days from the date of issue of Letter of Acceptance, the Tender / Contractor already accepted shall be considered as cancelled and legal steps be taken against the contractor for recovery of the amounts.

The amount of Security Deposit retained by the MCGM shall be released after expiry of period up to which the contractor has agreed to maintain the work in good order is over. In the event of the contractor failing or neglecting to complete the rectification work within the period up to which the contractor has agreed to maintain the work in good order, the amount of security deposit retained by MCGM shall be adjusted to-wards the excess cost incurred by the Department on rectification work.

**Action when whole of security deposit is forfeited:**

In any case in which under any Clause of this contract, the contractor shall have rendered himself liable to pay compensation amounting to the whole of this security deposit whether paid in one sum or deducted by instalments or in the case of abandonment of the work owing to serious illness or death of the contractor or any other cause, the Engineer on behalf of the Municipal Commissioner shall have power to adopt any of the following process, as he may deem best suited to the interest of MCGM

- a. To rescind the contract (for which recession notice in writing to the contractor under the head of Executive Engineer shall be conclusive evidence) and in that case, the security deposit of the contract shall stand forfeited and be absolutely at the disposal of MCGM.
- b. To carry out the work or any part of the work departmentally debiting the contractor with the cost of the work, expenditure incurred on tools and plant, and charges on additional supervisory staff including the cost of work-charged establishment employed for getting the un-executed part of the work completed and crediting him with the value of the work done departmentally in all respects in the same manner and at the same rates as if it had been carried out by the contractor under the terms of his contract. The certificate of the Executive Engineer as to the costs and other allied expenses so incurred and as to the value of the work so done departmentally shall be final and conclusive against the contractor.
- c. To order that the work of the contractor be measured up and to take such part thereof as shall be un-executed out of his hands, and to give it to another contractor to complete, in which case all expenses incurred on advertisement for fixing a new contracting agency, additional supervisory staff including the cost of work charged establishment and the cost of the work executed by the new contract agency will be debited to the contractor and the value of the work done or executed through the new contractor shall be credited to the contractor in all respects and in the same manner and at the same rates as if it had been carried out by the contractor under the terms of his contract. The certificate of the Executive Engineer as to all the cost of the work and other expenses incurred as aforesaid for or in getting the un-executed work done by the new contractor and as to the value of the work so done shall be final and conclusive against the contractor.

In case the contract shall be rescinded under Clause (a) above, the contractor shall not be entitled to recover or be paid any sum for any work therefore actually performed by him under this contract unless and until the Executive Engineer shall have certified in writing the performance of such work and the amount payable to him in respect thereof and he shall only be entitled to be paid the amount so certified. In the event of either of the courses referred to in Clause (b) or (c) being adopted and the cost of

the work executed departmentally or through a new contractor and other allied expenses exceeding the value of such work credited to the contractors amount of excess shall be deducted from any money due to the contractor, by MCGM under the contract or otherwise, howsoever, or from his security deposit or the sale proceeds thereof provided, however, the contractor shall have no claim against MCGM even if the certified value of the work done departmentally or through a new contractor exceeds the certified cost of such work and allied expenses, provided always that whichever of the three courses mentioned in clauses (a), (b) or (c) is adopted by the Executive Engineer, the contractor shall have no claim to compensation for any loss sustained by him by reason of his having purchase or procured any materials or entered in to any engagements or made any advance on account of or with a view to the execution of the work or the performance of the contract.

**Contract may be rescinded and security deposit forfeited for bribing a public Officer or if contractor becomes insolvent**

If the contractor assigns or sublets his contracts or attempt so to do, or become insolvent or commence any proceeding to get himself adjudicated and insolvent or make any composition with his creditors, or attempt so to do or if bribe, gratuity, gift, loan, perquisite, reward or advantage, pecuniary or otherwise, shall either directly or indirectly be given promised or offered by the contractor or any of his servants or agents through any public officer, or person in the employ of MCGM/Govt. in any way relating to his office or employment, or if any such officer or person shall become in any way directly or indirectly interested in the contract the Engineer In-charge may thereupon, by notice in writing rescind the contract and the Security Deposit of the Contractor shall thereupon stand forfeited and be absolutely at the disposal of MCGM and the same consequences shall ensure as if the contract had been rescinded under above clause J hereof; and in addition the contractor shall not be entitled to recover or be paid for any work therefore actually performed under the contract.

## SUBMISSION OF TENDERS

### PACKET – A

The Packet „A“ shall contain scanned certified copies of the following documents. Scrutiny of this packet will be done strictly with reference to only the scanned copies of Documents uploaded online in packet "A".

- a) Valid Registration Certificate.
- b) Valid Bank Solvency Certificate of Minimum Solvency amount as governed by Registration Rules in force for respective Class of Contractor for Civil and M&E works.
- c) A document in support of Registration under Goods & Service Tax(GST)..
- d) Certified copies of valid 'PAN' documents and photographs of the individuals, owners, Karta of Hindu undivided Family, firms, private limited companies, registered co- operative societies, partners of partnership firms and at least two Directors, if number of Directors are more than two in case of Private Limited Companies, as the case may be. However, in case of Public Limited companies, Semi Government Undertakings, Government Undertakings, no 'PAN' documents will be insisted.
- e) Latest Partnership Deed in case of Partnership firm duly registered with Chief Accountant (Treasury) of MCGM.
- f) The Registered power of attorney shall be submitted in the name of person who is submitting the bid.
- g) A document in support of Goods and Service Tax (G.S.T.) Act, 2017.
- h) The bidders shall categorically provide their Email-ID in packet „A“.

#### **NOTE:**

- If the bidder(s) withdraw tender offer during the tender validity period, his entire E.M.D shall be forfeited.
- If it is found that the bidder has not submitted required curable documents in Packet “A” then, the shortfalls will be communicated to the bidder through e-mail only and compliance required to be made within a time period of **three working days** otherwise they will be treated as non-responsive.

## **PACKET – B**

**The Packet „B“ shall contain scanned certified copies of the following documents –**

- a) The list of similar type of works as stated in para „A“ technical capacity of Post qualification successfully completed during the last seven years in prescribed Proforma, in the role of prime contractor. Information furnished in the prescribed Proforma (Proforma – I) shall be supported by the certificate duly self-attested. Documents stating that it has successfully completed during the last seven years at least one contract of similar works as stated in para „A“ of Post qualification.
- b) Annual financial turnover for **preceding three financial years as certified by Chartered Accountant** preceding the Financial Year in which bids are invited. **Copies of Applicants duly audited balance sheet and profit and loss account for the preceding three financial years preceding the Financial Year in which bids are invited.** (Proforma–II)
- c) Documents stating that, it has access to or has available liquid assets, unencumbered assets, lines of credit and other financial means (independent of any contractual advance payment) sufficient to meet the construction cash flow requirements for the subject contract in the event of stoppage, start-up, or other delay in payment, of the minimum **15%** of the cost of the work tendered for, net of the bidder's commitment of other contracts (Certificate from Bankers / C.A./Financial Institution shall be accepted as a evidence).
- d) Information about ownership, or assured access (through hire, lease, and other commercial means) to key items of equipments in Proforma V/A. Information about ownership in Proforma V/B original) as per 6.6, as stated in post qualification criteria.
- e) The Proforma-III & Proforma-IV shall be uploaded in Packet „b“ as per the appendix.
- f) Details of works in hand (Proforma VI-A & VI-B) (original), along with copies of work orders & attested copies of percentage of works completed or part thereof.
- g) Statement showing assessed available Bid Capacity.
- h) The undertaking of ₹500/- stamp paper as per the Proforma annexed in „Annexure B & C“  
**Note: Bidders shall submit the undertaking for equipment capability and other undertakings as such on a separate ₹500/- stamp paper.**
- i) The bidders shall upload work plan as per the following outline:
  1. GANTT chart/PERT/ CPM chart showing the completion of work within prescribed time period, considering major activities.
  2. Organizational set up envisaged by the contractors.
  3. Plant & equipment proposed to be deployed for this work.
  4. Site Offices and Laboratories proposed to be set up.
  5. A note on how the whole work will be carried out (work plan including methodology).
  6. Quality management plan.
  7. All the activities included in the Scope of Work shall be covered in the work plan.
- j) The undertaking of ₹500/- stamp paper (Undertaking for best price).
- k) The Irrevocable undertaking of Rs. 500/- stamp paper (Annexure A for GST).

**Note:**

- i. The Electrical / Mechanical work shall be got carried out by the civil contractors through the contractors registered with MCGM. in Electrical Category. Information about the registered contractors shall be obtained from the office of the Ch.E. (M&E)/ E.E. (Monitoring & Registration Cell). Attested scanned copy of the valid registration certificate in Electrical Category shall be uploaded with the tender along with the undertaking from the registered Electrical Contractor stating his willingness to carry out the tender work.
- ii. The successful bidder shall submit valid registration certificate under E.S.I.C., Act 1948, if the bidder has more than 10 employees /persons on his establishment (in case of production by use of energy) and 20 employees/persons on his establishment (in case of production without use of energy) to MCGM as and when demanded. In case of less employees/persons mentioned above then the successful bidder has to submit an undertaking to that effect on ₹ 200 stamp paper as per circular u/no. CA/FRD/I/65 of 30.03.2013.
- iii. The successful bidder shall submit valid registration certificate under E.P.F. & M.P., Act 1952, if bidder has more than 20 employees/persons on his establishment, to MCGM as and when demanded. In case if the successful bidder has less employees/persons mentioned above then the successful bidder has to submit an undertaking to that effect on ₹ 200 stamp paper as per circular u/no. CA/FRD/I/44 of 04.01.2013.
- iv. If it is found that the bidder has not submitted required documents in Packet “B” then, the shortfalls will be communicated to the bidder through e-mail only and compliance required to be made within a time period of three working days otherwise they will be treated as non-responsive.
- l) Undertaking on Rs. 500/- stamp paper stating that tenderer is conversant to all site situations & difficulties & has inspected the site personally & accordingly bid is submitted.
- m) If there is no litigation History, the bidder shall specifically mention that there is no litigation History against him as per the clause of litigation history. In case there is litigation history –

Litigation History must cover – Any action of blacklisting, debarring, banning, suspension, deregistration and cheating with MCGM, state govt., Central Govt. or any authority under state or central Govt./ Govt. organisation initiated against the company. Firm, directors, partners or authorized signatory shall be disclosed for last 5 years from the date of submission of bid. Also, bidder must disclose the litigation history for last 5 years from the date of submission of bid about any action like show cause issued, blacklisting, debarring, banning, suspension, deregistration and cheating with MCGM and MCGM is party in the litigation against the company, firm, directors, partners of authorized signatory for carrying out any work for MCGM by any authority of MCGM and the orders passed by the competent authority or by any court where MCGM is a party. While taking decision on litigation history, the concerned chief Engineer of D.M.C. or Director, as may be the case, should consider the details submitted by bidder and take decision based on the gravity of the litigation and the adverse effect of the act of company, firm, directors, partners or authorized signatory on the MCGM works which can spoil the quality, output, delivery of any goods or anywork execution and within the timeframe.

## **PACKET – C**

a. Online tender filled in either percentage plus or minus (above or below), or at par. (There is no separate provision to quote % in physical form, this is a part in Header Data of online Tendering). For Packet „C“ bidder(s) will fill data in „Item Data Tab“ in Service Line Item via Details and quotes his percentage variation figures. **(If entered "0" it will be treated as "at par"**. By default the value is zero only).

**Note: In case of rebate/premium of 15% and above as quoted by the bidder, the rate analysis of major items shall be submitted by L1 and L2 bidder after demand notification by e-mail to bidders by concerned Dy. Hydraulic Engg. The format for rate analysis is annexed at Annexure D.**

Applicability of G.S.T. and other state levies / cess which are not subsumed under GST will be applicable. The bidder shall quote inclusive of all taxes. It is clearly understood that MCGM will not bear any additional liability towards payment of any Taxes & Duties. Wherever, the Services to be provided by the Bidders falls under Reverse Charge Mechanism, the Price quoted shall be exclusive of GST, but inclusive of Taxes / Duties /Cess other than GST, if any. Rates accepted by MCGM shall hold good till completion of work and no additional individual claim shall be admissible on account of fluctuations in market rates; increase in taxes / any other levies / tolls etc. except that payment / recovery for overall market situation shall be made as per price variation.

### **BID SECURITY OR EMD**

- The Bidder shall furnish, as part of the Bid, Bid Security/EMD, in the amount specified in the Bid Data Sheet. This bid security shall be in favour of the authority mentioned in the Bid Data Sheet and shall be valid till the validity of the bid.
- The renderers shall pay the EMD online instead paying the EMD at any of the CFC centres in MCGM Ward Offices.
- Any bid not accompanied by an acceptable Bid Security and not secured as indicated in sub-clause mentioned above, shall be rejected by the Employer as non- responsive.
- The Bid Security of the successful Bidder will be discharged when the Bidder has signed the Agreement and furnished the required Security Deposits.
- The Bid Security/ EMD of L-3 and bidder shall be refunded immediately after opening of financial bid but, the EMD/ASD submitted by the L-2 bidder will be returned after obtaining Standing Committee Resolution.
- The Bid Security may be forfeited:
  - a) if the Bidder withdraws the Bid after bid opening (opening of technical qualification part of the bid during the period of Bid validity;

b) in the case of a successful Bidder, if the Bidder fails within the specified time limit to:

i. sign the Agreement; and/or

ii. Furnish the required Security Deposits.

1. The cases wherein if the curable shortfalls are not complied by a contractor, will be Informed to Registration and Monitoring Cell. Such non-submission of documents will be considered as „Intentional Avoidance“ and if three or more cases in 12 months are reported, shall be viewed seriously and disciplinary action against the defaulters such as banning/de-registration, etc. shall be taken by the registration cell with due approval of the concerned AMC.

2. No rejections and forfeiture shall be done in case of curable defects. For non-curable defects the 10% of EMD shall be forfeited and bid will be liable for rejection.

**Note:**

**i) Curable Defect shall mean shortfalls in submission such as:**

**a. Non-submission of following documents,**

- i. Valid Registration Certificate
- ii. Valid Bank Solvency
- iii. Sales Tax Registration Certificate (VAT) / Goods and Service Tax Registration Certificate
- iv. Certified Copies of PAN documents and photographs of individuals, owners, etc
- v. Partnership Deed and any other documents
- vi. Undertakings as mentioned in the tender document.

**b. Deleted**

**c. Deleted**

**ii) Non-curable Defect shall mean**

**a. In-adequate submission of EMD/ASD amount,**

**b. In-adequacy of technical and financial capacity with respect to Eligibility criteria as stipulated in the tender.**

**c. Wrong calculation of Bid Capacity**

**d. No proper submission of experience certificates and other documents, etc**

## **BID VALIDITY**

□ Bids shall remain valid for a period of not less than one eighty (180) days after the deadline date for bid submission specified in Bid Data Sheet. A bid valid for a shorter period shall be rejected by the Employer as non-responsive.

□ In exceptional circumstances, prior to expiry of the original time limit, the Employer may request that the bidders may extend the period of validity for a specified additional period. The request and the bidders' responses shall be made in writing or by cable. A bidder may refuse the request without forfeiting his Bid Security. A bidder agreeing to the re-quest will not be required or permitted to modify his bid, but will be required to extend the validity of his bid security for a period of the extension.

## **DEFECT LIABILITY PERIOD**

□ The Contractor is expected to carry out the construction work in Workmen like manner so as to meet the requirement and specification for the project. It is expected that the Workmanship and materials will be reasonably fit for the purpose for which they are required.

□ Defects or defective work is where standard and quality of workmanship and materials as specified in the contract is deficient. Defect is defined as a failure of the completed project to satisfy the express or implied quality or quantity obligations of the construction contract. Defective construction works are as the works which fail short of complying with the express descriptions or requirements of the contract, especially any drawings or specifications with any implied terms and conditions as to its quality, workmanship, durability, aesthetic, performance or design. Defects in construction projects are attributable to various reasons.

□ Some of the defects are structural defects results in cracks or collapse of faulty defective plumbing, inadequate or faulty drainage system, inadequate or faulty ventilation, cooling or heating systems, inadequate fire systems etc. The defects could be various on accounts of different reasons for variety of the projects.

□ The Engineering In charge/Project Officer shall issue the practical completion certificate for the project. During the Defect Liability Period which commences on completion of the work, the Engineering In charge shall inform or the contractor is expected to be informed of any defective works by the Employer's representative of the defects and make good at contractor's cost with an intention of giving opportunity to the contractor of making good the defects appeared during that period.

It is the contractor's obligation under the contract to rectify the defects that appear during Defect Liability Period and the contractor shall within a reasonable time after receipt of such instructions comply with the same at his own cost. The Engineering In charge/Project Officer shall issue a certificate to that effect and completion of making good defects shall be deemed for all the purpose of this contract to have taken place on the day named in such defect liability certificate.

□ If defective work or workmanship or design have been knowingly covered-up or conceived so as to constitute fraud, commencement of the Defect Liability Period may be delayed. The decided period may be delayed until **discover** actually occurson at least the defect could have been discovered with reasonable diligence, whichever is earlier.

□ The DLP shall be as below:

Type of works	DLP
General repair works / RCC work	3 years
Structural work	5 years
Waterproofing works	5 years

- Also, in case of defect, the Engineer shall give notice to the Contractor of any Defects before the end of the Defects Liability Period, which begins at. The Defects Liability Period shall be extended for as long as Defects remain to be corrected. Every time notice of Defect/Defects is given, the Contractor shall correct the notified Defect/Defects within the duration of time specified by the Engineer's notice. The Engineer may issue notice to the Contractor to carry out removal of defects or deficiencies, if any, noticed in his inspection, or brought to his notice. The Contractor shall remove the defects and deficiencies within the period specified in the notice and submit to the Engineer a compliance report.
- It is the Completion Stage when the contractor has completed all of the works and fixed all of the defects that were on the list of issue by Engineer-in-charge. When this happens, the engineer must issue a „Certificate of Completion“. On the issue of „Certificate of Completion“, the „Defect Liability Period „starts. The contractor also must issue a „Certificate statement“ as an acknowledgment to the engineer not later than 14 days after the „Certificate of Completion“ has been issued. During the „Defect Liability Period“, the contractor has to obey all written instructions from the engineer to carryout repairs and fix any defects which appear in the Permanent Works. If the contractor does not ,due to his own faults finish the repair works or fix the defects by the end of „Defect Liability Period“, the „Defect Liability Period“ will continue until all works instructed by engineer is done.
- In case of any lapse in maintenance, the penalties shall be recovered and if necessary the work shall be got done at the risk and cost of the contractor after the prescribed period. The said cost shall be recovered from the Contract Deposit /Retention money or any other deposits, dues with the M.C.G.M. The contractor shall be liable to pay the excess cost if incurred, punitive damages and face penal action in the case of insufficiency of the aforesaid amount.

**SECURITY DEPOSIT AND PERFORMANCE GUARANTEE**

**A. Security Deposit**

The security deposit shall mean and comprise of

- I) Contract Deposit and
- II) Retention Money.

I) **Contract Deposit** –The successful tender, here after referred to as the contractor shall pay an amount equal to **two (2)**percent of the contract sum shall be paid within thirty days from the date of issue of letter of acceptance.

II) **Retention Money** –The contractor shall pay the retention money an amount equal to **five (5)** percent of the Contract Sum which will be recovered from the contractors every bill i.e. interim / running / final bill. The clause of retention money will not be applicable M. & E. Department.

**B. Additional Security Deposit**

The **additional security deposit** will be applicable when a rebate of more than of 12 % at the rate of with no maximum limit. The ASD is calculated as follows:

$$\text{Additional security deposit} = (X/100) \times \text{office estimated cost,}$$

Where X=percentage rebate quoted above 12%

The ASD shall be paid online in the ASD tab for bidders in e-tendering system before submission of the bid.

**C. Performance Guarantee**

The successful tender, here after referred to as the contractor shall pay in the form of “Performance Guarantee” at different rates for different slabs as stated below:

<b>Offer</b>	<b>PG applicable %</b>
For premium, at par and	PG= 0.92% x contract sum
rebate 0 to 12%	<b>applicable for rebate of 12%</b>
For rebate of 12.01%	P.G. = {0.92% x contract sum
	applicable for rebate of 12% } +(X) x
	contract sum where X= percentage rebate quoted more than 12%

**Note: Contract sum shall mean amount after application of rebate/premium as quoted by the contractor with contingencies only and excluding price variation.**

The PG shall be paid in one the following forms.

- I) Cash (In case guarantee amount is less than Rs.10,000/-
- II) Demand Draft (In case guarantee amount is less than Rs.1,00,000/-
- III) Government securities
- IV) Fixed Deposit Receipts (FDR) of a Schedule Bank.
- V) An electronically issued irrevocable bank guarantee bond of any Schedule bank or f in the prescribed form given in Annexure.

Performance Guarantee is applicable over and above the clause of Security Deposit. Performance Guarantee will have to be paid & shall be valid till the defect liability period or finalization of final bill whichever is later.

This deposit will be allowed in the form of I to V as mentioned above and shall be paid within 15 days after receipt of Letter of Acceptance.

**Note:** Following exceptions shall be adopted for „Demolition Tenders“:

- Irrespective of the offer (Rebate/ at par/ premium), ASD shall be differed and only PG of 10% of contract sum be taken from the successful bidder on award of contract only.
- MCGM departments shall ensure to incorporate specific condition regarding above in bid document and e-tender notice.

#### **D. Refund of Security Deposit**

##### **I. Refund of Contract Deposit**

The Contract Deposit shall be released within 30 days after completion of 3<sup>rd</sup> year of DLP (in case of 5 years DLP) and after issue of „Defect Liability Certificate“ (in case of 1 or 2 or 3 years DLP) subject to no recoveries are pending against the said work, provided that the Engineer is satisfied that there is no demand outstanding against the Contractor. No claim shall be made against the Balance Contract Deposit after the issue of Defects Liability Certificate.

##### **II. Refund of Retention Money**

One-half (50%) of the Retention Money shall be released within 30 days of issue of „Certificate of Completion“ with respect to the whole of the Works. In the event the Engineer issues a Taking-over Certificate for a section or part of the Permanent Works, only such proposition thereof as the Engineer determines (having regard to the relative value of such section or part of the Works) shall be considered by the Engineer for payment to the Contractor.

The balance Retention Money shall be released within 30 days after completion of 3<sup>rd</sup> year of DLP (in case of 5 years DLP) and after issue of „Defect Liability Certificate“ (in case of 1 or 2 or 3 years DLP) provided that the Engineer is satisfied that there is no demand outstanding against the Contractor. In the event of different Defects Liability Periods have been specified or become applicable to different sections or parts of the Permanent Works, the said moneys will be released within 30 days on expiration of the latest of such Defects Liability Periods.

Payment of the above mentioned 50% is exclusive of the amounts to be withheld as stated in and that amount shall be paid as per condition stated therein.

##### **III. Refund of Additional Security Deposit**

The additional security deposit shall be released within 30 days of issue of Certificate of Completion" with respect to the whole of the Works. In the event the Engineer issues a Taking-over Certificate for a section or part of the Permanent Works, only such proposition thereof as the Engineer determines (having regard to the relative value of such section or part of the Works) shall be considered by the Engineer for payment to the Contractor.

**IV. Refund of Performance Guarantee**

The Deposit on account of performance guarantee shall be released within 30 days of completion of Defects Liability Certificate subject finalization of final bill whichever is later and no recoveries are pending against the said work, provided that the Engineers satisfied that there is no demand outstanding against the Contractor.

Summary of time of Refund of deposit is tabulated as follows:

**a) Time of Refund for works having 5 years DLP**

<b>Deposits refunded after completion</b>	<b>After 3 yrs of DLP</b>	<b>After Completion of DLP</b>
<b>ASD + 50% of RM</b>	<b>CD+50% of RM</b>	<b>PG</b>

**b )Time of Refund for works having 1 or 2 or 3 years DLP**

<b>Deposits refunded after completion</b>	<b>After Completion of DLP</b>
<b>ASD + 50% of RM</b>	<b>CD+50% of RM+PG</b>

\*Note:

- a) It shall be clearly mentioned that the BG shall be applicable for individual work/contract and clubbing of various contracts of the said contractor will not be allowed. In case of obtaining Bank Guarantee, it is necessary to mention that the same shall be valid further 6 months from the completion of defect liability period/ warranty period.
- b) It shall be the responsibility of the bidder to keep the submitted B.G. "VALID" for the stipulated time period in the tender & in case of its expiry it will attract penalization.
- c) Bank Guarantee should be issued by way of General Undertaking and Guarantee issued on behalf of the Contractor by any of the Nationalized or Scheduled banks or branches of foreign banks operating under Reserve Bank of India regulations located in Mumbai upto Virar & Kalyan. List of approved Banks is appended at the end of Instructions to Bidders (ITB). The Bank Guarantee issued by branches of approved Banks beyond Kalyan and Virar can be accepted only if the said Bank Guarantee is countersigned by the Manager of a Regional Branch of the same bank within the Mumbai City Limit categorically endorsing thereon that the said Bank Guarantee is binding on the endorsing Branch of the Bank or the Bank itself within Mumbai Limits and is liable to be enforced against the said Branch of the Bank or the bank itself in case of default by the Contractors furnishing the Bank Guarantee. The Bank Guarantee shall be renewed as and when required and/or directed from time to time

until the Contractor has executed and completed the works and remedied any defects therein.

**E. Legal + Stationary Charges: (As per applicable circular)**

Successful tender shall pay the Legal Charges +Stationary charges as per Circular no CA/FRG/26 dtd.04.01.2019.

Contract Value						Legal+ Stationery Charges
From	Rs.	Zero	To	Rs.	50,000/-	<b>Nil</b>
From	Rs.	50,001/-	To	Rs.	3,00,000/-	<b>Rs. 500/-</b>
From	Rs.	3,00,001/-	To	Rs.	20,00,000/-	<b>Rs. 830/-</b>
From	Rs.	20,00,001/-	To	Rs.	1,00,00,000/-	<b>Rs. 3240/-</b>
From	Rs.	1,00,00,001/-	To	Rs.	Any amount	<b>Rs. 8070/- (Maximum)</b>

The tenderers are requested to note that stationary charges as given in the table above will be recovered from the successful tenderer for supply of requisite prescribed forms for preparing certificate bills in respect of the work.

**F. Stamp Duty: (As per applicable circular)**

It shall be incumbent on the successful tenderer to pay stamp duty on the contract.

i. As per the provision made in Article 63, Schedule I of Bombay Stamp Act 1958, stamp duty is payable for “works contract” that is to say, a contract for works and labour or services involving transfer of property in goods (whether as goods or in some other form) in its execution and includes a sub-contract, as under :

(a)	Where the amount or value set forth in such contract does not exceed rupees ten lakh.	Five Hundred rupees Stamp Duty
(b)	Where it exceeds rupees ten lakhs	Five hundred rupees plus one hundred rupees for every Rs.1,00,000/- or part thereof, above rupees ten lakh subject to the maximum of rupees Twenty Five lakh stamp duty.
(c)	Bank Guarantee: As per article 54 read with 40(b) of stamp duty act, stamp duty of 0.5% will be applicable to the all bank guarantee submitted also which are required to be renewed after expiry of time period.	

ii. The successful bidder within 30 days from the date of the work order for executing the contract work under reference shall enter into a contract agreement with the M.C.G.M by submitting the necessary / required documents to the satisfaction of the concerned Executive Engineer & Account Officer. The contract agreement shall be adjudicated for payment of stamp duty by the successful bidder and

accordingly the successful bidder shall pay the stamp duty on the contract agreement within such time so as to ensure that the contract agreement is executed within the stipulated period as aforesaid. The cost worked out after adding the physical & cost contingencies shall be considered for computing the stamp duty charges to be paid for the contract agreement.

- iii. Further shortfall if any, in amount of stamp duty paid as against prescribed amount for the documents executed in Mumbai City & Mumbai Suburban District be recovered from the concerned work contractors and to deposit the deficit or unpaid Stamp Duty and penalty by two separate Demand Draft or Pay Order in favour of “Superintendent of Stamp, Mumbai” within 15 days from intimation thereof.
- iv. All legal charges and incidental expenses in this respect shall be borne and paid by the successful tenderer.

## **IMPORTANT DIRECTIONS**

1. All the information uploaded shall be supported by the corroborative documents in absence of which the information uploaded will be considered as baseless and not accepted for qualification criteria. All the documents shall be uploaded with proper pagination. The page No. shall be properly mentioned in the relevant places.

The information shall be uploaded in the sequence as asked for with proper indexing etc. The Bidder shall be fully responsible for the correctness of the information uploaded by him.

2. Applicants/Bidders shall refer [portal.mcgm.gov.in\](http://portal.mcgm.gov.in/tenders)tenders for “The Manual of Bid-Submission for Percentage Rate/Item Rate Tender Document.” The detail guidelines for creation and submission of bid are available in the referred document. Any queries or request for additional information concerning this TENDER shall be submitted by e-mail to **eewwcivilmaintes.he@mcgm.gov.in**. The subject shall clearly bear the following identification/ title: **"Queries/ Request for Additional Information: TENDER for “Structural Repairs and up-gradation of Municipal Properties Babula Tank Control Office and Municipal Headquarters Situated at 'B'Ward Compound, Ramchandra Bhatt Marg, Mumbai - 400 009”** .Any changes in mail ID will be intimated on the portal.

3. In case of **Equal Percentage** of lowest bidders (L1), the allotment of work shall be done by giving 48 hrs (**2 working days**) from the day of opening of packet C **on same BID-Document number for re-quoting** and such development needs to done by IT department in MCGM’s SRM system. **Till such development is made; Sealed Bids shall be called from the bidders quoting the same rates i.e. L1.**

In case of equal percentage of lowest bidders is obtained even after re-quoting, then the successful bidder will be decided by lottery system by concerned H.E.

The bidder shall need to submit the additional ASD if applicable within 7 days after receipt of notification issued by concerned Chief Engineer.

Also, the Performance Guarantee shall be paid in 15 days after receipt of Letter of Acceptance.

**SECTION 7**  
**SCOPE OF WORK**

## **SCOPE OF WORK**

### **Project specific scope of work includes:-**

Name of the work:	Structural Repairs and up-gradation of Municipal Properties Babula Tank Control Office and Municipal Headquarters Situated at 'B'Ward Compound, Ramchandra Bhatt Marg, Mumbai - 400009
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#### **1 (a) CONTROL ROOM:**

1. Flooring and skirting needs to be refurbished in the main office and the main office. The vinyl finish is to be removed and mosaic tiles need to be conserved.
2. Windows / ventilators are broken at some locations. Needs to be refurbished / conserved. Window grills are corroded / buckled needs to be replaced with matching grills.
3. Doors are in bad condition due to dampness and needs to be replaced which matches with heritage structure
4. Door hinges are corroded / buckled and needs to be replaced.
5. Roofing coverings material needs to be replaced to resolve the leakage problem with the heritage material currently used i.e., mangalore tiles.
6. The glass of the skylights are broken and need to be replaced.
7. Plastering and finishing of external and internal walls is required.
8. Kitchen platform is to be repaired and additional sink to be provided.
9. Wall tilings above kitchen platform is to be redone and height of the tiling is to be taken full height.
10. Lockers are to be provided for staff.
11. Chajjas are to be provided at all windows and the external door.
12. Dado work is to be provided upto a height of 1.5 m all over the control room and full height dado work is to be provided in the washrooms.
13. The cabinet of electric panel in the back office needs to be changed.

#### **1 (b) MUNICIPAL QUARTER 01:**

1. Roofing coverings material needs to be replaced to resolve the leakage problem.
2. The main doors are to be replaced the rest of doors need to be conserved.
3. Plastering and finishing of external and internal walls is required.
4. The height of the dado work in the toilets needs to be increased.
5. The glass of the skylights are damaged and need to be replaced.

6. Mesh is to be provided to avoid birds entering the attic

#### 1 (c) MUNICIPAL QUARTER 02:

1. Roofing coverings material needs to be replaced to resolve the leakage problem.
2. The main doors are to be replaced the rest of doors need to be conserved.
3. Plastering and finishing of external and internal walls is required.
4. The height of the dado work in the toilets needs to be increased.
5. The glass of the skylights are damaged and need to be replaced.
6. Mesh is to be provided to avoid birds entering the attic

#### 2. FOR LEAK DETECTION CHOWKI:

1. Roofing material needs to be replaced with color coated sheet for frame and mangalore tiles to match the existing structure. The slope of the roof needs to be increased to prevent leakage.
2. Dado upto 1.50mt. ht. (Vitrified Tile with granite strip)
3. Internal and external plaster and painting works.
4. Vitrified flooring.
5. Steps in granite stone.
6. Toilet refurbishment includes changing of flooring tiles and dado, plumbing works, changing of doors and window jambs.
7. Providing Aluminum windows with granite frame, sill and M.S.Grill.
8. Providing open able shutters for loft.
9. Providing cupboards on Mezzanine floor.
10. Increase height by 0.6mtr.

#### 3. FOR WATER MAINTENANCE DEPARTMENT:

1. Roofing material needs to be replaced with color coated sheet for frame and Mangalore tiles to match the existing structure. The slope of the roof needs to be increased to prevent leakage.
2. Internal and external plaster and painting works.
3. Level difference at the main door.
4. Construction of a washroom in the place of existing wash area in front of the chowki
5. Dado up to 1.50mt. ht. (Vitrified Tile with granite strip)
6. Repair works of existing doors and windows.

#### 4. FOR WATER MAINTENANCE DEPARTMENT - STORE:

1. Roofing material needs to be replaced with color coated sheet for frame and mangalore tiles to match the existing structure. The slope of the roof needs to be increased to prevent leakage.
2. Internal and external plaster and painting works.
3. Construction of a toilet with bath area to be provided in the Store area.
4. Construction of a partition wall in order to enclose the storage space.
5. Doors are to be conserved, repaired and a double door to be placed on the internal door frame.
6. Changing all windows.
7. Providing storage areas with locker facility for workers.
8. Dado up to 1.50mt. ht. (Vitrified Tile with granite strip).

#### 5. FOR WORKERS DEPARTMENT CHOWKI:

##### C. WORKERS DEPARTMENT CHOWKI 01:

1. Roofing material needs to be replaced with color coated sheet for frame and Mangalore tiles to match the existing structure. The slope of the roof needs to be increased to prevent leakage.
2. Internal and external plaster and painting works.
3. Providing a store for tools and a cupboard to be provided with a storage cabinet with seating space.
4. To cover mezzanine above the washroom.
5. Provision of storage space with a door.
6. Kota stone finish for floors in the chowki.

##### D. WORKERS DEPARTMENT CHOWKI 02 & 03:

1. Roofing material needs to be replaced with color coated sheet for frame and Mangalore tiles to match the existing structure. The slope of the roof needs to be increased to prevent leakage.
2. Internal and external plaster and painting works.
3. Providing a store for tools and a cupboard to be provided with a storage cabinet with seating space.
4. To cover mezzanine above the washroom.
5. Provision of storage space with a door.
6. Kota stone finish for floors in the chowki.

#### 6 (a) GROUND FLOOR STORE ROOM:

1. Roofing material needs to be replaced with color coated sheet for frame and mangalore tiles to match the existing structure. The slope of the roof needs to be increased to prevent leakage.
2. Internal and external plaster and painting works.
3. Change all flooring
4. Replace the R.S. Shutter.
5. The existing niches to be converted into cupboards to be used as storage space .
6. Ventilators to be repaired.
7. Replace wash basin.

#### 6 (b) WATER WORKS MAINTENANCE:

1. Construction of walls above 2.20mtr. after removal of ply.
2. Change all flooring.
3. Replace new storage cabinet of 2.20m height, in place of existing cabinets.

#### 7. ASSISTANT ENGINEER WATER WORKS:

1. Replacing all sliding windows
2. Repairs in storage space
3. Using granite in window sill.
4. Storage cabinets of 1.30mtr. height in the front room
5. Some cupboards to be provided up to slab level.
6. Platform to be provided under the wash basin

**SECTION 8**

**BILL OF QUANTITIES**

**M/s. Master & Associates**Structural repairs and upgradation of Municipal properties Babula Tank Control Office and Municipal Headquarters  
'B' Ward**SUMMARY OF TENDERED COST**

SR. NO.	PARTICULARS			AMOUNT
01	PART - I	CIVIL WORK		
		1. Enabling Works	Rs.	505253.690
		2. Anti Termite	Rs.	15932.070
		3. Masonry Work and plastering	Rs.	2,089,299.05
		4. Floor Finish	Rs.	2448008.56
		5. Doors & Windows.	Rs.	1862770.50
		6. Hardware	Rs.	22516.00
		7. Painting	Rs.	297987.73
		8. Miscellaneous Work	Rs.	1781300.89
		9. Iron Work	Rs.	576086.25
		10. Water Supply And Drainage	Rs.	543756.65
		11. Roofing	Rs.	1009513.07
		12. Furniture	Rs.	292850.00
		13. Garden Works	Rs.	722610.00
CUMULATIVE TOTAL (CIVIL WORKS)			Rs.	12167884.47
		Round off		12167884.47
		Civil Rebate		32192.00
Constructed Area of Building (Sq. Mtrs)				1,031.038
Constructed Area of Building			Sqft	11098
Ready Reckoner Rate for new construction (Rs)			Per/Sqm	27500
Cost of New Construction				28353545
45% Cost of New Construction				12759095.25
Rate of Proposed Repair works (Rs.)			Per/Sft	1096.403
ELECTRICAL ESTIMATE			Rs.	2176381.00
TOTAL PROJECT ESTIMATE (CIVIL + ELECTRICAL)			Rs.	14,344,265.47

**Name of the Work : Repairs and Up-gradation of BABULA TANK BMC OFFICE, B WARD, BYCULLA**

S.NO.	ITEM CODE	DESCRIPTION	UNIT	QUANTITY									TOTAL QUANTITY	RATE	AMOUNT
				1(A) CONTROL ROOM	1(B) (C) QUARTER 1 & 2	2. LEAK DETECTION CHOWKI	3. WATER MAINTENANCE DEPT.	4. WATER MAINTENANCE DEPT. STORE	SWORKERS DEPT. CHOWKI 1, 2 & 3	6 (A) GROUND FLOOR STORE ROOM	6(B) GROUND FLOOR WATER WORKS MAINTENANCE	7. THIRD FLOOR - ROOM NO. 34			
<b>1. DEMOLISHING AND DISMANTELING WORKS</b>															
1	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. Removal of flooring	Sqm	153.98	210.51	-	-	-	39.29	51.67	11.43	-	466.89	240.00	112054.32
2	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	-	-	-	-	-	0.89	-	-	-	0.89	484.00	431.97
3	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	213.35	329.37	49.28	23.39	35.73	94.63	-	20.79	-	766.54	98.00	75121.116
4	R2-CS-DD-65	Removing cement plaster of any finish from the wall, complete with raking out the joints to a depth of 20mm.	Sqm	376.56	689.44	83.01	103.55	111.76	307.90	169.17	45.68	-	1,887.07	147.00	277399.3635
5	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. Removal of Dado	Sqm	26.53	38.58	8.42	6.01	-	9.59	1.92	21.79	-	112.83	240.00	27079.92
6	R2-CS-RM-2-B	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 : Window frame along with shutters	EACH	19.00	-	-	-	-	-	-	-	-	19.00	693.00	13167
<b>TOTAL DEMOLISHING AND DISMENTALING</b>															
														505253.6895	
<b>2. ANTI TERMITE WORKS</b>															
S.NO.	ITEM CODE	DESCRIPTION	UNIT	1(A) CONTROL ROOM	1(B) (C) QUARTER 1 & 2	2. LEAK DETECTION CHOWKI	3. WATER MAINTENANCE DEPT.	4. WATER MAINTENANCE DEPT. STORE	SWORKERS DEPT. CHOWKI 1, 2 & 3	6 (A) GROUND FLOOR STORE ROOM	6(B) GROUND FLOOR WATER WORKS MAINTENANCE	7. THIRD FLOOR - ROOM NO. 34	TOTAL QUANTITY	RATE	AMOUNT
7	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	45.55	51.87	23.21	17.26	38.79	26.15	38.58	-	-	241.40	66.00	15932.07
<b>TOTAL ANTI TERMITE</b>															
														15932.07	
<b>3: MASONRY WORKS</b>															
S.NO.	ITEM CODE	DESCRIPTION	UNIT	1(A) CONTROL ROOM	1(B) (C) QUARTER 1 & 2	2. LEAK DETECTION CHOWKI	3. WATER MAINTENANCE DEPT.	4. WATER MAINTENANCE DEPT. STORE	SWORKERS DEPT. CHOWKI 1, 2 & 3	6 (A) GROUND FLOOR STORE ROOM	6(B) GROUND FLOOR WATER WORKS MAINTENANCE	7. THIRD FLOOR - ROOM NO. 34	TOTAL QUANTITY	RATE	AMOUNT
8	R2-CS-MW-3-b	Brickwork 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 Cement mortar 1:4 (1 cement : 4 coarse sand)	Cum	-	-	2.06	4.57	2.00	1.12	-	4.78	-	14.52	6930.00	100,626.72
9	R2-CS-MW-11-b	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.(Fire proof specification) Cement mortar 1:4 (1 cement : 4 coarse sand)	SQ.M	13.78	-	-	-	-	-	-	-	-	13.78	781.00	10,759.06

10	R2-CS-PL-09-c	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. In cement mortar 1:4	Sqm	233.74	466.10	3.23	45.23	58.58	165.57	118.50	45.68	-	1,136.64	516.00	586,503.92
11	R2-CS-PL-15-b	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. In cement mortar 1:4	Sqm	142.82	223.35	79.78	58.32	53.18	142.33	50.66	-	-	750.44	438.00	328,690.53
12	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	4.46	6.98	2.49	1.83	1.66	4.45	1.59	-	-	23.46	65.00	1,524.71
13	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	233.74	466.10	-	-	-	-	-	-	-	699.84	298.00	208,550.98
14	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	71.41	111.68	-	-	-	-	-	-	-	183.09	2099.00	384,302.76
15	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	71.41	111.68	-	-	-	-	-	-	-	183.09	1860.00	340,544.61
16	R2-CS-RM-57-a	Finishing walls with textured exterior paint of required shade : Old work (Two or more coats on existing cement paint surface applied @ 3.28 ltr/10 sqm.	Sqm	71.41	111.68	-	-	-	-	-	-	-	183.09	121.00	22,153.71
17	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	71.41	111.68	-	-	-	-	-	-	-	183.09	577.00	105,642.06
<b>TOTAL MASONARY AND PLASTER WORKS</b>															2,089,299.05
<b>4 : FLOOR FINISHES</b>															
S.NO.	ITEM CODE	DESCRIPTION	UNIT	1(A) CONTROL ROOM	1(B) (C) QUARTER 1 & 2	2. LEAK DETECTION CHOWKI	3. WATER MAIN TENANCE DEPT.	4. WATER MAINTENANCE DEPT. STORE	5.WORKERS DEPT. CHOWK 1, 2 & 3	6 (A) GROUND FLOOR STORE ROOM	6(B) GROUND FLOOR WATER WORKS MAINTENANCE	7. THIRD FLOOR ROOM NO. 34	TOTAL QUANTITY	RATE	AMOUNT
18	R2-CS-FL-01-c	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. 25 to 30 mm thk. Kota stone of size 0.430m x0.56m (17"x22")	Sqm	-	-	-	-	-	39.29	51.67	-	-	90.96	1179.00	107243.61
19	R2-CS-FL-21-d	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. 15 to 20mm thk. Kota stone for height upto 150 mm	Rmt	-	-	-	-	-	-	33.71	-	-	33.71	234.00	7886.97

20	R2-CS-FL-33-b	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 -Dark coloured glazed ceramic tiles	Sqm	50.78	-	10.66	8.44	10.33	105.79	-	-	-	185.99	1476.00	274527.144
21	CS-FL-40-J	Providing and fixing natural stone 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 18mm thk. Rubyred, jetblack, Hasangreen Granite for width upto 150 mm	Rmt	20.88	83.20	40.64	16.11	24.99	45.58	38.22	-	18.06	287.68	377.00	108454.983
22	R2-CS-FL-8-d	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. Dark coloured antiskid / matt vitrified tiles	Sqm	50.45	195.00	23.33	16.34	30.95	-	-	11.43	-	327.51	1608.00	526628.84
23	R2-CS-FL-06-c	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. Light coloured antiskid / matt ceramic tiles	SQM	-	-	1.80	1.42	2.12	6.53	-	-	-	11.87	1416.00	16800.84
24	R2-CS-FL-64	Providing and fixing 8mm thk. vitrified tiles as specified below conforming to I.S. 15622-2006 with water absorption 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	40.39	83.11	36.63	21.80	44.50	-	-	3.84	-	230.28	1672.00	385020.64
25	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	26.79	58.50	-	-	-	-	-	-	-	85.28	4259.00	363211.78
26	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	14.47	-	-	-	-	-	-	-	-	14.47	369.00	5339.061
27	R2-CS-FL-21-J	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 15to20mmthk. Rubyred, jetblack, Hasangreen Granite tiles/slab for height upto 150 mm	Rmt	32.40	131.73	27.84	14.53	30.71	-	-	-	-	237.22	377.00	89430.432
28	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 drawing and design (Basic rate of granite is Rs.220/-Sq.ft.)	MTR	-	-	4.73	-	-	9.45	-	6.62	-	20.79	831.00	17276.49
29	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	75.78	-	-	-	-	-	-	-	-	75.78	5743.00	435195.9255
30	R2-CS-FL-80	Providing & fixing 20 +mm thick machine cut mirror polish 1st quality Granite 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 per Architects details drawing and design (Basic rate of granite is Rs.220/-Sq.ft.)	MTR	13.65	-	4.73	-	-	9.45	6.62	-	-	34.44	1934.00	66606.96

31	CE4-07-015FA138	P/F Antistatic (False Flooring) 600x600x35mm thick. Panels as per MFG.Spec.as directed by ENGG. Providing and fixing uniformly levelled laminated Antistatic raised access type flooring (false flooring) consisting of 600 x 600 x 35mm thick. Panels of approved colour and shade as per manufacturers specifications with necessary stringers runners, and pedestal support at every junction of stringers including necessary fittings and fixtures and as directed by the Engineer.	Sqm	10.78	-	-	-	-	-	-	-	-	10.78	4116.00	44384.886
<b>TOTAL FLOOR FINISH WORKS</b>															2448008.56
<b>5: DOORS AND WINDOWS</b>															
S.NO.	ITEM CODE	DESCRIPTION	UNIT	1(A) CONTROL ROOM	1(B) (C) QUARTER 1 & 2	2. LEAK DETECTION CHOWKI	3. WATER MAIN TENANCE DEPT.	4. WATER MAINTENANCE DEPT. STORE	5.WORKERS DEPT. CHOWK 1, 2 & 3	6 (A) GROUND FLOOR STORE ROOM	6(B) GROUND FLOOR WATER WORKS MAINTENANCE	7. THIRD FLOOR ROOM NO. 34	TOTAL QUANTITY	RATE	AMOUNT
32	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. 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 scaled by keeping the anodized section in boiling de-anodized water for a period of one hour)	SQM	1.64	8.09	3.00	0.48	1.32	6.24	-	-	-	20.77	5266.00	109369.554
33	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. 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 scaled by keeping the anodized section in boiling de-anodized water for a period of one hour)	SQM	-	-	-	-	-	-	6.62	-	14.55	21.17	5258.00	111301.34
34	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 Engineer In Charge.	Sqm	3.51	1.70	-	0.57	0.70	-	-	-	-	6.48	4246.00	27507.71
35	R2-CS-WW-01	Providing and fixing best quality C.P. Teak wood frame for doors, windows and ventilators size greater than 50mmx50mm including intermittent supports if required, all moulding, rebating, jointing, hold fasts of MS flats of minimum size 25x3mm, having length of 225mm for doors & 150mm 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	3.15	-	-	-	-	-	-	-	-	3.15	76096.00	239702.40
36	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	-	-	0.01	0.06	-	-	0.02	-	0.16	0.25	115185.00	29026.62
37	R2-CS-WW-17-d	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.: 40mm thick shutter	SQM	-	-	2.21	1.35	2.10	4.97	-	-	-	10.63	7157.00	76050.28

38	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, aldrops & standard door hardware to be paid separately)	SQM	13.49	1.70	-	-	-	-	-	-	-	-	15.19	4219.00	64101.38	
39	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 flipping pattl, 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), chromium 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,GLD2, GL-D3	SQM	4.02	53.97	-	-	-	-	-	-	-	-	57.99	14117.00	818666.01	
40	R2-CS-WW-18-D	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.: 40mm thick shutter	SQM	-	-	-	-	6.30	5.55	2.94	-	-	-	14.79	8666.00	128209.14	
41	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 3mm 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	-	-	1.32	1.58	1.58	3.97	-	-	-	-	8.44	2382.00	20108.84	
42	R2-CS-RM-20-A	Providing and fixing 25 mm thick shutters for cup board etc. Panelled or panelled & glazed shutters : 1st class teak wood including nickel plated bright finished M.S. piano hinges with necessary screws.	Sqm	-	-	1.20	11.91	-	-	3.36	-	-	23.10	39.56	4233.00	167474.41	
43	R2-CS-WW-35	Door Type D5 Providing & 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, Haffe ), as per architect's detailed drg. and design complete. Door size - 1000x2100. =GL-D9	SQM	4.41	-	-	-	-	-	-	-	-	-	4.41	13428.00	59217.48	
44	R2-CS-RM-2-B	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 chowkats and making good the damages to walls and floors as required complete including disposal of rubbish to the dumping ground within 50 meters lead : Window frame along with shutters	EACH	17.37	-	-	-	-	-	-	-	-	-	17.37	693.00	12035.33	
<b>TOTAL DOORS AND WINDOWS</b>																	<b>1862770.50</b>
<b>6: HARDWARE WORKS</b>																	
S.NO.	ITEM CODE	DESCRIPTION	UNIT	1(A) CONTROL ROOM	1(B) (C) QUARTER 1 & 2	2. LEAK DETECTION CHOWKI	3. WATER MAIN TENANCE DEPT.	4. WATER MAINTENANCE DEPT. STORE	5.WORKERS DEPT. CHOWK 1, 2 & 3	6 (A) GROUND FLOOR STORE ROOM	6(B) GROUND FLOOR WATER WORKS MAINTENANCE	7. THIRD FLOOR - ROOM NO. 34	TOTAL QUANTITY	RATE	AMOUNT		
45	R2-CS-HW-06-d-1	Providing and fixing aldrops of 16mm diameter bars manufactured as per IS:2681-1991, wherever they apply for doors and windows with necessary materials and labour etc. complete. Stainless Steel Aldrops 250 mm long	EA	-	-	2.00	-	-	9.00	2.00	-	-	13.00	319.00	4147.00		
46	R2-CS-HW-08-c-2	Providing and fixing tower bolts as described below conforming to IS:204-1992 (Part,II) for doors & windows with necessary materials and labour etc. complete. Standard Stainless Steel. 150 mm long.	EA	-	-	2.00	-	-	9.00	-	-	16.00	27.00	239.00	6453.00		
47	R2-CS-HW-09-d-2	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. 150 mm long.	EA	-	-	4.00	-	-	18.00	2.00	-	32.00	56.00	91.00	5096.00		

48	R2-CS-HW-04-d-1	Providing and fixing butt hinges as described below, manufactured as per relevant IS for door & windows with necessary materials and labour costs etc. complete. DJ Standard Stainless Steel hinges 75 mm Long	Nos	-	-	8.00	-	-	30.00	8.00	-	64.00	110.00	62.00	6820.00	
<b>TOTAL HARDWARE WORKS</b>															22516.00	
<b>7 : PAINTING WORK :-</b>																
S.NO.	ITEM CODE	DESCRIPTION	UNIT	1(A) CONTROL ROOM	1(B) (C) QUARTER 1 & 2	2. LEAK DETECTION CHOWKI	3. WATER MAIN TENANCE DEPT.	4. WATER MAINTENANCE DEPT. STORE	5WORKERS DEPT. CHOWK 1, 2 & 3	6 (A) GROUND FLOOR STORE ROOM	6(B) GROUND FLOOR WATER WORKS MAINTENANCE	7. THIRD FLOOR - ROOM NO. 34	TOTAL QUANTITY	RATE	AMOUNT	
49	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	135.74	466.10	38.34	45.23	58.58	165.57	172.66	45.68	-	1,127.90	126.00	142115.34	
50	R2-CS-PN-12-A	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.: By using acrylic based exterior paint	Sqm	142.82	223.35	79.78	58.32	53.18	142.33	50.66	-	130.20	880.64	177.00	155872.40	
<b>TOTAL PAINTING WORKS</b>															297987.73	
<b>8: MISCELLANEOUS WORK :-</b>																
S.NO.	ITEM CODE	DESCRIPTION	UNIT	1(A) CONTROL ROOM	1(B) (C) QUARTER 1 & 2	2. LEAK DETECTION CHOWKI	3. WATER MAIN TENANCE DEPT.	4. WATER MAINTENANCE DEPT. STORE	5WORKERS DEPT. CHOWK 1, 2 & 3	6 (A) GROUND FLOOR STORE ROOM	6(B) GROUND FLOOR WATER WORKS MAINTENANCE	7. THIRD FLOOR - ROOM NO. 34	TOTAL QUANTITY	RATE	AMOUNT	
51	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 approximately 600 x 450 mm center to center or as per site conditions and covered by 12 mm thick marine ply generally conforming to I.S.303 /I.S.710-1980 finished with 3 mm thick group match veneer of approved quality with groove pattern including all necessary end mouldings, moulding pattern, and melamine polish. Antitermite treatment to plywood and woodwork etc. including all leads & lifts complete as per Architects detailed drg. & design and as instructed by The Engineer In Charge (Basic Veneer Rate Rs.75/-per sft)	Sqm	160.24	-	-	-	-	-	-	-	42.00	202.24	4882.00	987338.12	
52	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 liping (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	25.20	-	-	-	-	-	-	-	-	25.20	5447.00	137264.40	
53	R2-CS-WW-21-A	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.  With Armstrong Orca 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	107.10	-	-	-	-	-	-	-	-	-	107.10	1894.00	202847.40

54	R2-CS-AW-18	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: 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. 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.	Sqm	38.37	-	-	-	-	-	-	-	-	-	38.37	4228.00	162219.90
55	R2-CS-WP-6	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 peazised 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	Sqm	213.35	329.37	49.28	27.03	35.73	94.63	-	-	-	-	749.39	356.00	266781.06
56	CE-7-18-2Q1	SINAGES: LED- based edge lit acrylic sheets displaying the "ENTRY" and "EXIT" signage LED- based edge lit acrylic sheets displaying the "ENTRY" and "EXIT" signage 450mm x 300mm with laser engraving, fixing to GI sections of the false ceiling by 10mm dia SS rods, including approved hardware etc.	EACH	10.00	2.00	-	-	-	-	-	-	-	-	12.00	200.00	2400
57	CE4-09-044-FR50	P & F safety signage auto glow sticker. (Floor No Indication./ Lift Instructions/ Fire Exit.)	EACH	10.00	2.00	-	-	-	-	-	-	-	-	12.00	100.00	1200
58	CE1-07-020-4-11	Providing and fixing litter bin as per drawing. Providing and fixing litter bin as per drawing. Litter Bin, including cap, body and slanting plate to be constructed entirely out of 1.2mm thick stainless steel (S.S. 304) sheet of (Jindal make or approved equivalent). All nuts and bolts and screws used in the construction to be of S.S. Parts should be free from any manufacturing defects. Pedestal of the bin to be in RCC and finished with enamel paint ( as per paint specifications ).	EACH	5.00	2.00	1.00	1.00	1.00	3.00	1.00	1.00	2.00	17.00	1250.00	21250	

**TOTAL MISCELLANEOUS WORK**

**1781300.89**

**9: IRON WORK :-**

S. NO	ITEM CODE	DESCRIPTION	UNIT	1(A) CONTROL ROOM	1(B) (C) QUARTER 1 & 2	2. LEAK DETECTOR CHOWKI	3. WATER MAINTENANCE DEPT.	4. WATER MAINTENANCE DEPT. STORE	SWORKE RS DEPT. CHOWKI 1, 2 & 3	6 (A) GROUND FLOOR STORE ROOM	6(B) GROUND FLOOR WATER WORKS MAINTENANCE	7. THIRD FLOOR ROOM NO. 34	TOTAL QUANTITY	RATE	AMOUNT
59	R2-CS-SL-12-A	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. : aGrill weighing 10 to 15 kg / sqm	Sqm	15.60	9.53	3.00	1.05	1.32	6.94	6.62	-	15.75	59.82	2021.00	120893.1885
60	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	RMT	6.62	-	-	-	-	-	-	-	-	6.62	3394.00	22451.31
61	R2-CS-SS-04	girders, girders, bracings, supports, purlins, runners, and similar structural steel members fabricated using M.S. hollow tubular steel sections (circular & rectangular pipes), of TATA Structural 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 redoxide 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	5.25	-	-	-	-	-	-	-	-	5.25	82427.00	432741.75

**TOTAL IRON WORKS**

**576086.25**

10: WATER SUPPLY AND DRAINAGE WORKS:-															
S. N O.	ITEM CODE	DESCRIPTION	UNIT	1(A) CONTROL ROOM	1(B) (C) QUARTER 1 & 2	2. LEAK DETECTION CHOWKI	3. WATER MAINTENANCE DEPT.	4. WATER MAINTENANCE DEPT. STORE	5. WORKERS DEPT. CHOWKI 1, 2 & 3	6 (A) GROUND FLOOR STORE ROOM	6(B) GROUND FLOOR WATER WORKS MAINTENANCE	7. THIRD FLOOR - ROOM NO. 34	TOTAL QUANTITY	RATE	AMOUNT
62	R2-CS-PS-2-A	(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 : W.C. pan with ISI marked white solid plastic seat and lid	EACH	3.00	4.00	-	-	-	-	-	-	-	7.00	6483.00	45381.00
63	R2-CS-PS-7-A	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 : White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps.	EACH	3.00	4.00	-	-	-	-	1.00	-	2.00	10.00	3645.00	36450.00
64	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.	RMT	1.50	12.05	-	-	-	-	-	-	2.52	16.08	9056.00	145579.73
65	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 LTR	1000.00	-	-	-	-	-	-	-	-	1,000.00	4.00	4000.00
66	R2-CS-PS-90-a	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. - External work 15mm dia nominal bore	MTR	14.70	21.00	-	2.63	2.63	7.88	-	-	5.25	54.08	199.00	10760.93
67	R2-CS-PS-93-A	Providing and fixing brass bib cock of approved quality : 15mm nominal bore	each	4.00	8.00	-	1.00	1.00	3.00	-	-	-	17.00	313.00	5321.00
68	R2-CS-PS-94-a	Providing and fixing brass stop cock of approved quality : 15 mm nominal bore	each	6.00	8.00	-	1.00	1.00	3.00	-	-	2.00	21.00	313.00	6573.00
69	R2-CS-PS-222	75 mm. C.I. nahani traps with grating with 75 mm C. I. bends with cleaning caps fixed complete.	each	7.00	8.00	-	1.00	1.00	3.00	-	-	2.00	22.00	2649.00	58278.00
70	R2-CS-PS-252	Providing and fixing stainless steel sink 600 mm x 450 mm and 200mm deep including 32mm dia. galvanised iron waste pipe, 32mm dia. C.P. brass waste coupling, one C.P. brass screw down tap, caste iron brackets, rubber plugs with chain etc. complete.	Nos	1.00	2.00	-	-	-	-	-	-	-	3.00	8215.00	24645.00
71	R2-CS-PS-163-B	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 : 150 mm diameter	Rmt	-	-	-	-	-	-	-	-	-	20.00	460.00	9200.00
72	R2-CS-PS-163-D	250 mm diameter	Rmt	-	-	-	-	-	-	-	-	-	120.00	836.00	100320.00
73	R2-CS-PS-166-C-1	With common burnt clay F.P.S. (non modular) bricks of class designation 3.5	each	-	-	-	-	-	-	-	-	-	5.00	3026.00	15130.00
74	R2-CS-PS-194	Constructing brick masonry inspection chamber 90cm x 45cm x 30cm 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	-	-	-	-	-	-	-	-	-	12.00	3629.00	43548.00
75	R2-CS-PS-195	Extra on item CS-PS-194 for additional depth above 30 cm of 230 mm brick walls	Rmt	-	-	-	-	-	-	-	-	-	10.00	3857.00	38570.00
<b>TOTAL WATERSUPPLY AND DRAINAGE WORKS</b>															543756.65
11: ROOFING															
S. N O.	ITEM CODE	DESCRIPTION	UNIT	1(A) CONTROL ROOM	1(B) (C) QUARTER 1 & 2	2. LEAK DETECTION CHOWKI	3. WATER MAINTENANCE DEPT.	4. WATER MAINTENANCE DEPT. STORE	5. WORKERS DEPT. CHOWKI 1, 2 & 3	6 (A) GROUND FLOOR STORE ROOM	6(B) GROUND FLOOR WATER WORKS MAINTENANCE	7. THIRD FLOOR - ROOM NO. 34	TOTAL QUANTITY	RATE	AMOUNT
76	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	22.50	21.60	-	-	-	-	-	-	-	44.10	234.00	10319.4

77	R2-CS-RW-12-A	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. Girth upto 600mm	RMT	15.00	-	-	-	-	-	-	-	-	15.00	1087.00	16305
78	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	213.35	329.37	49.28	27.03	35.73	94.63	-	-	-	749.39	358.00	268279.83
79	R2-CS-RW-09-b	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.: Colour Coated Galvalume/zincalume sheets for cladding	SQM	213.35	329.37	49.28	27.03	35.73	94.63	-	-	-	749.39	524.00	392677.74
80	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	213.35	329.37	49.28	27.03	35.73	85.31	-	-	-	740.07	435.00	321931.1025

**TOTAL ROOFING**

**1009513.07**

**12: FURNITURE**

S. N O.	ITEM CODE	DESCRIPTION	UNIT	1(A) CONTROL ROOM	1(B) (C) QUARTER 1 & 2	2. LEAK DETECTION CHOWKI	3. WATER MAINTENANCE DEPT.	4. WASTE R MAIN TENANCE DEPT. STORE	5.WORKERS DEPT. CHOWK 1, 2 & 3	6 (A) GROUND FLOOR STORE ROOM	6(B) GROUND FLOOR WATER WORKS MAINTENANCE	7. THIRD FLOOR R - ROOM M NO. 34	TOTAL QUANTITY	RATE	AMOUNT
81	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 Polyester Powder Coated.	EACH	4.00	-	-	-	-	-	-	-	-	4.00	4130.00	16520
82	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 Polyester Powder Coated.	EACH	11.00	-	-	-	-	-	-	-	-	11.00	6490.00	71390
83	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 Polyester Powder Coated. Dry film thickness shall be more than 45 Micron.	EACH	2.00	-	-	-	-	-	-	-	-	2.00	4720.00	9440

84		<p><b>WORK STATIONS</b> Supply, installation &amp; handing over of panel based workstations consisting of, Size of the workstation : 1500mm X 1500 Table width 600mm with partition of 1200mm high. Type : Panel based system. Height of the screen : 1200mm height from FFL. Partition panel : Primary panel of thickness 50 - 75mm. Partition panel shall be of 50mm - 75mm thickness with White board/fabric panel, tack board above table top and laminated panel below table top. The panel/partition shall be provided with levellers for adjusting the level difference in the floor. The panel shall be provided with acoustic filler. Modular Partition - 1.2M height Providing &amp; fixing MODULAR PARTITION of 1.2 meter height &amp; tile based system of 63 mm Aluminum section of 2 mm thickness, with epoxy 70/80micron power coated (using 7 step process to avoid breakage of coating) for vertical member. The partition is of 63 mm width system with clip on tiles of 9 mm thick MDF Board (confirming to IS-12406 (1990) panel on both sides. The system is self-standing on floor level adjusters. The system also consists of two different data &amp; power raceway wire management with channels to avoid damages to cables &amp; wires, system should have provision for fixing</p> <p>Workstation table top, etc. Completes including necessary fixtures &amp; hardware as per architects Drawing &amp; design and as instructed by Engineer in Charge. Modular table of required shape &amp; size, 1500 x 600 x 750 mm. Providing and supplying Modular table of required shape &amp; size, 1500 x 600 x 750 mm. Top/sides to be made of 25mm thick BS Pre-laminated particle board (Interior Grade) with 2mm thk PVC edge banding on all sides, PVC wire manager, 19 PVC Keyboard Tray and CPU Trolley of Metal powder coated, Nylon bushes and with all necessary fittings and hardware as per detailed drawings, Complete as per the instructions of the Engineer-in charge. Pedestal : 450mm (L) x 550mm (B) x 725mm (H) - 3 drawer unit of metal carcass with MS powder coated finish having single key locking systems and approved hardware as per details. Every cluster shall be provided with four vertical cable entry points. Metal shield shall be provided between Data/Voice &amp; Electricals cables to avoid electro magnetic interference.</p>	EACH	5.00	-	-	-	-	-	-	-	-	-	5.00	39100.00	195500
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<b>TOTAL FURNITURE</b>															292850
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**13: LANDSCAPE:-**

S.N O.	ITEM CODE	DESCRIPTION	UNIT	1 (A) CONTROL ROOM	1(B) (C ) QUARTER 1 & 2	2. LEAK DETECTION CHOWKI	3. WATER MAINTENANCE DEPT.	4. WATER MAINTENANCE DEPT. STORE	SWORKERS DEPT. CHOWKI 1, 2 & 3	6 (A) GROUND FLOOR STORE ROOM	6(B) GROUND FLOOR WATER WORKS MAINTENANCE	7. THIRD FLOOR ROOM NO. 34	TOTAL QUANTITY	RATE	AMOUNT
85	GW 1-2-D	Site Dressing and Land Modulation Excavation for Shrubs Excavation for preparing Shrubbery on Hard surface: Excavating the ground for preparing Shrubbery in the Concrete/ masonry/ asphalt/ hard rock for a depth of 0.60	Sqm	-	30.00	-	-	-	-	-	-	-	30.00	178.00	5340
86	GW 1-4-B	Excavation for Hedges/ Edges/ Flower Beds Excavation for planting Hedges/ Edges/ Flower Beds on Hard surface: Excavating the ground to the depth of 30 cm removing excavated material from the site.	Sqm	-	30.00	-	-	-	-	-	-	-	30.00	89.00	2670
87	GW 2-2-B	Plantation: Shrubs Planting Shrubbery on Soft/Hard surface: Filling Red Hill Earth & Cow Dung Manure in the excavated area mixing in 2:1 proportion, watering, weeding after every watering before planting the shrub, leveling, providing and planting well grown, healthy, bushy shrubs including transport and unloading as per specified variety and sizes, planting at desired location and specified distances, maintaining for 1 month after completion of plantation and replacement of casualties till 1 month. Filling good garden soil mix with manure (Fine Dressing) Leveling Weeding Maintenance Planting Shrubs (Labour, transport and unloading) (Excluding cost of plant)	Sqm	-	30.00	-	-	-	-	-	-	-	30.00	667.00	20010
88	GW 2-4-A	Plantation: Hedges/ Edges/ Flower Beds/ Ground covers Planting Hedges/ Edges/ Flower Beds on Soft/Hard surface: Filling Red Hill Earth & Cow Dung Manure in the excavated area mixing in 2:1 proportion, watering, weeding after every watering before planting the shrub, leveling, providing and planting well grown, healthy, bushy shrubs including transport and unloading as per specified variety and sizes, planting at desired location and specified distances, maintaining for 1 month after completion of plantation and replacement of casualties till 1 month. Filling good garden soil mix with manure (Fine Dressing) Leveling Weeding Maintenance Planting Shrubs (Labour, transport and unloading) (Excluding cost of plant)	Sqm	-	30.00	-	-	-	-	-	-	-	30.00	503.00	15090
89	GW-3-1-a	Hardscape Works and Garden furnitures Hardscape works Providing and fixing Shotblasted and coated HSF Turf grass pavers (370mmX370mmX100mm) as per the drawing provided in required shade and color, fixed over 300mm thick well graded sand bed compacted to 95% proctor density all complete including turf grass. (Tile sample should be approved by Landscape Architect before execution) (Refer sketch 1)	Sqm	-	30.00	-	-	-	-	-	-	-	30.00	20000.00	600000

90	GW-5-1	Botanical name - <i>Acalypha wilkesiana</i> Common Name - <i>Acalypha Batic</i> Polybag of 50 micron Required height 9"-12"	Unit	50.00	-	-	-	-	-	-	-	-	50.00	25.00	1250
91	GW-5-2	Botanical name - <i>Acalypha wilkesiana</i> Common Name - <i>Acalypha Dwarf</i> Polybag of 50 micron Required height 9"-12"	Unit	50.00	-	-	-	-	-	-	-	-	50.00	25.00	1250
92	GW-5-173	Botanical name - <i>Chrysalidocarpus luteceus</i> Common Name - <i>Areca Palm Pot</i> Required height 3"-4"	UNIT	25.00	-	-	-	-	-	-	-	-	25.00	455.00	11375
93	GW-5-175	Botanical name - <i>Cycas revolute</i> Common Name - <i>Cycas Pot</i> Required height 2"-3"	UNIT	25.00	-	-	-	-	-	-	-	-	25.00	2625.00	65625
<b>TOTAL LANDSCAPE WORKS</b>															<b>722610.00</b>
<b>TOTAL COST OF CIVIL</b>															<b>12167884.47</b>

**MUNICIPAL CORPORATION OF GREATER MUMBAI**

Hydraulic Engineer's Department

**Sub : Electrification and Rewiring of office of AEW D Control City & various chowkies at B Ward office premises**

**Estimate prepared as per USOR 2018 Estimate**

**14: ELECTRICAL**

S.NO.	ITEM CODE	DESCRIPTION	UNIT	1(A) CONTR OL ROOM	1(B) (C ) QUART ER 1 & 2	2. LEAK DETECTI ON CHOWKI	3. WATER MAINTENA NCE DEPT.	4. WATER MAINTENA NCE DEPT. STORE	5.WORK ERS DEPT. CHOWK 1, 2 & 3	6 (A) GROU ND FLOOR STORE ROOM	6(B) GROUN D FLOOR WATER WORKS MAINTE NANCE	7. THIRD FLOOR R - ROO M NO. 34	TOTAL QUANTI TY	RAT E	AMO UNT
<b>REMOVAL</b>															
94	R2-ME-8-1-g	Removal of fixtures / fittings / ceiling fans /bulkhead / street light / gyeser etc.	Nos	-	-	-	-	-	-	-	-	-	30	40	1200
95	R2-ME-8-1-b	Removal of switchgears / ELCB / RCCB upto 32 Amp / 40 Amp.	Nos	-	-	-	-	-	-	-	-	-	4	11	44
96	R2-ME-8-1-h	Removal of cable from 1.5 sq.mm to 3-1/2 core x 35 sq.mm.	Mtr	-	-	-	-	-	-	-	-	-	100	9	900
97	R2-ME-8-1-o	Removal of control panel upto 100 Amp. incomer, capacitor etc.	Panel	-	-	-	-	-	-	-	-	-	1	205	205
<b>REFIXING</b>															
98	R2-ME-8-2-f	Refixing of control panel from 16 Amp to 100 Amp incomer including terminations, interconnections etc.	Panel	-	-	-	-	-	-	-	-	-	1	418	418
<b>MAIN PANEL &amp; DB'S</b>															
99	R2-ME-1-28-a	415V Main Distribution Panel 1 short circuit rating 50kA for 1 Sec. 250A (Thermal magnetic overload, short circuit release MCCB with rotary operating mechanism as incomer with digital ammeter, voltmeter with selector switches, phase indicating lamp with required accessories, 1Nos. 32A, 63A, 1Nos. 80A, 2Nos. Of 100A, 1Nos. 160A & 2Nos. 200A (total 8Nos.) MCCB of short circuit rating 25kA for 1 sec. as outgoings.	No	-	-	-	-	-	-	-	-	-	1	439538	439538
100	R2-ME-1-15-b	IP43 12 Way SPN DB (4 + 8Way)	Nos	-	-	-	-	-	-	-	-	-	5	2955	14775
101	R2-ME-1-17-n	63A TP MCB	Nos	-	-	-	-	-	-	-	-	-	5	2478	12390
102	R2-ME-1-17-d	32A SP MCB	Nos	-	-	-	-	-	-	-	-	-	40	335	13400
103	R2-ME-1-15-o	IP 30 SPN Distribution Board with single door (Box only) 4 Way ( 2 + 2 way)	No.	-	-	-	-	-	-	-	-	-	1	1844	1844
104	R2-ME-1-17-j	63A DP MCB	No.	-	-	-	-	-	-	-	-	-	1	1600	1600
105	R2-ME-3-34-b	2/3 Pin Independent Plug (IP)	Pt.	-	-	-	-	-	-	-	-	-	5	759	3795
<b>FANS</b>															
106	R2-ME-4-12-j	Exhaust fan of 380mm sweep, 900/950RPM, with 1350 CFM free air delivery, AC 230V, 50 Hz, single phase complete with all necessary accessories for completing installation	Nos	-	-	-	-	-	-	-	-	-	22	4460	98120
107	R2-ME-4-12-e	Ceiling fan of 1400 mm sweep with all accessories including Electronic Regulator for completing installation	Nos	-	-	-	-	-	-	-	-	-	7	2699	18893
108	R2-ME-4-12-q	Wall mounting air circulator of 450mm sweep, 230 Volts,AC 50 Hz, oscillating type complete with all necessary accessories for completing installation.	Nos	-	-	-	-	-	-	-	-	-	4	5730	22920
109	R2-ME-4-12-o	Pedestal fan of 450mm sweep, 230 Volts,AC 50 Hz, oscillating type complete with guard and regulator 3 mtrs. of 3 core 1.5sqmm, PVC insulated , copper conductor , flexible wire and Hand shield type 3 pin plug top.	Nos	-	-	-	-	-	-	-	-	-	4	4562	18248
110	R2-ME-4-15-c	S' type M.S. fan hook fabricated from suitable dia. M.S. rod & suitable size M.S. brackets, nut bolts, washers for fixing ceiling fan on trusses. The 'S' type hook & bracket shall be painted in approved manner.	set	-	-	-	-	-	-	-	-	-	7	271	1897
111	R2-ME-4-12-s	Fan safety rope/ Fan wire.	Nos	-	-	-	-	-	-	-	-	-	7	407	2849
112	R2-ME-4-17-c	Above 1 mtr. to 1.5 Mtr. (G.I/M.S Pipe 1/2")	Set	-	-	-	-	-	-	-	-	-	3	439	1317
<b>FITTING AND FIXTURES</b>															
113	R2-ME-4-34-a	1X18W	Nos	-	-	-	-	-	-	-	-	-	26	538	13988
114	R2-ME-4-5-b	2x28W, T-5 Ultraslim recessed CAT 2 mirror optic luminaire with perforated sheet for separating the lampcompartments. The luminaries piewired with with high efficiency electronics ballast suitable for T-5 lamps (THD<33%) & PF > 0.95 & T-5 lamps.	Nos	-	-	-	-	-	-	-	-	-	6	2683	16098
115	R2-ME-4-16-d	Above 1.5 mtr. to 3.0 Mtr. (M.S.Pipe)	Set	-	-	-	-	-	-	-	-	-	6	839	5034
<b>COMPOUND LIGHT</b>															
116	R2-ME-4-27-d	48-60 W	Nos	-	-	-	-	-	-	-	-	-	6	5332	31992

117	R2-ME-10-3-a	Single arm bracket	Nos	-	-	-	-	-	-	-	-	-	-	6	2930	17580
118	R2-ME-1-21-a	SMCJB - 1414, Hinged cover, Size 170 x 170 x 105mm	Nos	-	-	-	-	-	-	-	-	-	-	9	1253	11277
<b>GARDEN LIGHT</b>																
119	R2-ME-4-29-b	LED Post top Lantern/ Handi type - 105 W	Nos	-	-	-	-	-	-	-	-	-	-	6	13007	78042
120	R2-ME-10-5-a	Providing & erecting 3 m high (clear height) galvanized OCTAGONAL pole with foundation bolts having bottom of 130 mm A/F, top 70 mm A/F on provided foundation as per specification	Nos	-	-	-	-	-	-	-	-	-	-	6	20642	123852
121	R2-ME-10-7-a	Smart Pack junction box with 6A MCB & Terminals ( for mounting inside base compartment of pole)	Nos	-	-	-	-	-	-	-	-	-	-	6	2202	13212
<b>POINT WIRING USING CASING-N CAPING</b>																
122	R2-ME-3-34-a	Light /Fan / Ex. fan Points	Pt.	-	-	-	-	-	-	-	-	-	-	70	716	50120
123	R2-ME-3-34-d	Bell Point With Bell / Buzzer with 1 Bell Push & 1 Indicator.	each Pt.	-	-	-	-	-	-	-	-	-	-	3	1064	3192
124	R2-ME-3-34-i	15 / 5 A / 6 A Combined Power Plug Socket Point with Fuse and Indicating Lamp, One 15 Amp SP Switch	each Pt.	-	-	-	-	-	-	-	-	-	-	20	1216	24320
125	R2-ME-3-34-j	5A/6A - 3/5 Pin Plug On Board	Pt.	-	-	-	-	-	-	-	-	-	-	16	186	2976
126	R2-ME-3-48-c	5A/6A - 3/5 Half Plug Concealed Manner with Modular switches & FRLSH wires	each Pt	-	-	-	-	-	-	-	-	-	-	24	305	7320
127	R2-ME-3-11-a	Laying of PVC Empty Conduit with Boxes for Light /Fan / Ex. fan Points	each Pt	-	-	-	-	-	-	-	-	-	-	8	519	4152
<b>MAINS AND SUBMAINS IN CASING-N CAPING</b>																
128	R2-ME-2-1-c	2C x 6.0 Sq.mm AL Cable	Mtr	-	-	-	-	-	-	-	-	-	-	180	89	16020
129	R2-ME-2-1-s	4C x 16 Sq.mm AL Cable	Mtr	-	-	-	-	-	-	-	-	-	-	40	194	7760
130	R2-ME-3-23-c	2 X 4 sq. mm + 1 X 4 sq. mm earth wire in 25 X 12mm (3/4")	Mtr	-	-	-	-	-	-	-	-	-	-	60	238	14280
131	R2-ME-3-23-d	2 X 6 sq. mm + 1 X 6 sq. mm earth wire in 25 X 12mm (3/4")	Mtr	-	-	-	-	-	-	-	-	-	-	160	324	51840
132	R2-ME-3-23-m	4 X 10 sq. mm + 2 X 10 sq. mm earth wire in 38 X 20 mm (1.5")	Mtr	-	-	-	-	-	-	-	-	-	-	60	887	53220
133	R2-ME-3-23-n	4 X 16 sq. mm + 2 X 16 sq. mm earth wire in 38 X 20 mm (1.5")	Mtr	-	-	-	-	-	-	-	-	-	-	60	1339	80340
<b>CABLE AND END TERMINATION</b>																
134	R2-ME-2-11-b	2C x 6 Sq.mm	Set	-	-	-	-	-	-	-	-	-	-	25	159	3975
135	R2-ME-2-11-r	4C x 16 Sq.mm	Set	-	-	-	-	-	-	-	-	-	-	2	305	610
<b>EARTHING</b>																
136	R2-ME-7-4-l	Bare G.I. Conductor size 10 SWG	mtr	-	-	-	-	-	-	-	-	-	-	220	6	1320
137	R2-ME-7-1-d	600 X 600 X 3.15 mm Copper Plate, 3000mm dip with suitable size cu strip earth pit as per IS 3043. The earth pit shall be provided with watering pipe (Class B) with wire messed funnel, 12 SWG cu wire upto chamber, disconnecting links with 600 x 600 mm (clear) RCC chamber & 3mm thick heavy duty CI chequered plate cover with hinge. Bentonite shall be provided for earth pits. Excavation, backfilling, removal of excess soil is included in the scope	No	-	-	-	-	-	-	-	-	-	-	1	23434	23434
<b>LAN</b>																
138	R2-ME-12-4-b	Cat 6 Gigabyte	Mtr	-	-	-	-	-	-	-	-	-	-	300	32	9600
139	R2-ME-12-5-e	PVC box & cover plate for combined access of RJ-11 for Telephone & RJ-45 for LAN	Nos	-	-	-	-	-	-	-	-	-	-	8	391	3128
140	R2-ME-12-9-m	3 Feet Patch Chord	Nos	-	-	-	-	-	-	-	-	-	-	8	163	1304
141	R2-ME-12-9-l	7 Feet Patch Chord	Nos	-	-	-	-	-	-	-	-	-	-	8	195	1560
142	R2-ME-12-9-b	24 Port +4 10G SFP+ Fiber Optic Switch	No.	-	-	-	-	-	-	-	-	-	-	1	19128 1	191281
143	R2-ME-12-9-t	SITC of 24 Port CAT-6 UTP Jack panel with cable manager	Nos	-	-	-	-	-	-	-	-	-	-	8	5209	41672
144	R2-ME-12-9-w	SITC of 32 inch Rack	No	-	-	-	-	-	-	-	-	-	-	1	44768	44768
145	R2-ME-12-8-a	25 mm. - Only PVC Conduits	Mtr	-	-	-	-	-	-	-	-	-	-	100	35	3500
<b>INTERCOM</b>																
146	R2-ME-12-1-c	SITC of EPABX 4 x12 P&T	No	-	-	-	-	-	-	-	-	-	-	1	19861	19861
147	R2-ME-12-1-k	SITC of Push button telephone instrument desk top/ wall mount unit	Nos	-	-	-	-	-	-	-	-	-	-	8	1547	12376
148	R2-ME-12-2-a	PVC Telephone Cable -2 pair	Mtr	-	-	-	-	-	-	-	-	-	-	300	25	7500
149	R2-ME-12-3-a	Armoured Telephone Cable -10 pair	Mtr	-	-	-	-	-	-	-	-	-	-	100	65	6500
150	R2-ME-12-6-c	50 pair M.S.Junction Box for EPABX	No	-	-	-	-	-	-	-	-	-	-	1	1547	1547

151	R2-ME-12-8-a	25 mm.- Only PVC Conduits	Mtr	-	-	-	-	-	-	-	-	-	-	80	35	2800
<b>CCTV</b>																
152	R2-ME-12-13-m	Supply, Installation, Testing & Commissioning of IP Dome camera with 1/2.8" CMOS, Progressive Scan, HD 720P Horizontal Resolution, Dual H.264 streaming, 25 FPS, 2.8mm-10mm varifocal auto iris lens, 0.01 lux, Tamper detection, Wide dynamic Range, 3D Noise reduction, PoE & standard 12VDC/24VAC power input, Indoor surface mount enclosure, Mounted on True Ceiling / False ceiling as per site requirement (including required accessories), UL Listed Or Equivalent. Camera Shall be ONVIF compliant.	Nos	-	-	-	-	-	-	-	-	-	-	1	35977	35977
153	R2-ME-12-13-n	Supply, Installation, Testing & Commissioning of IP Fixed Box/ Bullet camera with 1/2.8" CMOS, Progressive Scan, Day/Night, HD720P Horizontal Resolution, Dual H.264 streaming, 25 FPS, 2.8mm-10mm varifocal auto iris IR corrected megapixel lens, 0.05 lux Day/Night, Tamper detection, Wide dynamic Range, 3D Noise reduction, PoE & standard 12VDC/24VAC power input, IP66 rated vandal resistant enclosure, UL Listed Or Equivalent. Camera Shall be ONVIF compliant.	Nos	-	-	-	-	-	-	-	-	-	-	2	35977	71954
154	R2-ME-12-13-p	Design, Supply, testing, installation and commissioning of modular 16 channel 1080P NVR, Recording: 1920X1080P, 15 FPS, 30 days recording, 24 hours/day; Real time monitoring with 25 FPS. Hard disc : 8 SATA III Ports, Each 6TB, up to 48TB, 1 eSATA port, Disk array: Support RAID 0/1/5/6/10, Two no's of RJ-45 10/100/1000 Mbps self adaptive Ethernet interface, RS 232, RS 485, keyboard interfaces	No	-	-	-	-	-	-	-	-	-	-	1	105180	105180
155	R2-ME-12-4-b	Cat 6 Gigabyte	Mtr	-	-	-	-	-	-	-	-	-	-	180	32	5760
156	R2-ME-12-9-t	SITC of 24 Port CAT-6 UTP Jack panel with cable manager	No	-	-	-	-	-	-	-	-	-	-	1	5209	5209
157	R2-ME-12-9-m	3 Feet Patch Chord	Nos	-	-	-	-	-	-	-	-	-	-	8	163	1304
158	R2-ME-12-13-l	SITC of 8 TB Storage (HDD)	No	-	-	-	-	-	-	-	-	-	-	1	35258	35258
159	R2-ME-12-9-y	SITC of 8 ports 10/100 with 2 combo ports PoE switch with installation	No	-	-	-	-	-	-	-	-	-	-	1	32558	32558
160	R2-ME-12-13-t	Supply, Installation, Testing & commissioning of 42 inches LED monitor, Full HD Resolution, Backlight LED, Brightness : 400 NITS min., Contrast : 1200 : 1 or better, Power supply : 230±10%, 50 Hz.	Nos	-	-	-	-	-	-	-	-	-	-	3	73859	221577
161	R2-ME-12-8-b	20 mm.- Only PVC Conduits	Rmt	-	-	-	-	-	-	-	-	-	-	150	26	3900
<b>TOTAL COST OF ELECTRICAL</b>														<b>2176381.00</b>		
<b>TOTAL COST (CIVIL + ELECTRICAL)</b>														<b>14344265.47</b>		

<b>PART I - G - REBATE FOR CIVIL WORK</b>					
<b>S.No.</b>	<b>CIVIL WORK</b>	<b>UNIT</b>	<b>QTY.</b>	<b>RATE</b>	<b>AMOUNT</b>
1	Door Shutters including FRP	Nos.	36.00	715	25740.00
2	Aluminum Windows & Ventilators	Nos.	2.00	193	386.00
3	FA-CE4-15-014.3- Salvage Value for M.S. grills and steel	MT	0.50	9000	4500.00
4	G.I.Pipes and fittings	RMT	54.00	29	1566.00
	<b>CIVIL WORK</b>			<b>Rs.</b>	<b>32192.00</b>

**ESTIMATED COST OF TENDER: Rs. 1,43,44,265.47**

**SECTION 9**

**GENERAL CONDITIONS OF  
CONTRACT**

## **GENERAL CONDITIONS OF CONTRACT**

Terms which are defined in the Contract Data are not also defined in the Conditions of Contract but keep their defined meanings. Capital initials are used to identify defined terms.

**The “Contract”** shall mean the tender and acceptance thereof and the formal agreement if any, executed between the Contractor, Commissioner and the Corporation together with the documents referred to therein including these conditions and appendices and any special conditions, the specifications, designs, drawings, price schedules, bills of quantities and schedule of rates. All these documents taken together shall be deemed to form one Contract and shall be complementary to one another.

**The Contract Data** defines the documents and other information which comprise the Contract.

**The “Contractor”** shall mean the individual or firm or company whether incorporated or not, whose tender has been accepted by the employer and the legal successor of the individual or firm or company, but not (except with the consent of the Employer) any assignee of such person.

**The Bidder** is a person or corporate body who has desired to submit Bid to carry out the Works, including routine maintenance till the tender process is concluded.

**The Contractor's Bid** is the completed bidding document submitted by the Contractor to the Employer.

**The “Contract Sum”** means the sum named in the letter of acceptance including Physical contingencies subject to such addition thereto or deduction there-from as may be made under the provisions hereinafter contained.

Note: The contract sum shall include the following –

- In the case of percentage rate contracts the estimated value of works as mentioned in the tender adjusted by the Contractor’s percentage.
- In the case of item rate contracts, the cost of the work arrived at after finalisation of the quantities shown in schedule of items / quantities by the item rates quoted by the tenderers for various items and summation of the extended cost of each item.
- In case of lumpsum contract, the sum for which tender is accepted.
- Special discount / rebate / trade discount offered by the tenderer if any and accepted

- by the Corporation.  
• Additions or deletions that are accepted after opening of the tenders.

**The “Contract Cost”** means the Contract Sum plus Price Variation. This cost shall be included in the letter of acceptance.

**A Defect** is any part of the Works not completed in accordance with the Contract.

**The Defects Liability Certificate** is the certificate issued by the Engineer, after the Defect Liability Period has ended and upon correction of Defects by the Contractor.

Drawings means all the drawings, calculations and technical information of a like nature provided by the Engineer to the Contractor under the Contract and all drawings, calculations, samples, patterns, models, operation & maintenance manual and other technical information of like nature submitted by the Contractor and approved by the Engineer.

**The Authority** shall mean Municipal Corporation of Greater Mumbai (MCGM)

**The “Employer”** shall mean the Municipal Corporation for Greater Mumbai / Municipal Commissioner for Greater Mumbai, for the time being holding the said office and also his successors and shall also include all “Additional Municipal Commissioners, Director (Engineering Services & Projects)” and the Deputy Municipal Commissioner, to whom the powers of Municipal Commissioner, have been deputed under Section 56 and 56B of the Mumbai Municipal Corporation Act.

**The Engineer in-charge** shall mean the Executive Engineer in executive charge of the works and shall include the superior officers of the Engineering department i.e. Dy.Ch.Eng/Ch.Eng. and shall mean and include all the successors in MCGM

**The Engineer's Representative** shall mean the Assistant Engineer, Sub. Engineer/Jr. Engineer indirect charge of the works and shall include Sub Eng./ Jr. Eng of Civil section/ Mechanical section/ Electrical section appointed by MCGM.

**The “Engineer”** shall mean the City Engineer / the Hydraulic Engineer / the Chief Engineer / the Special Engineer, appointed for the time being or any other officer or officers of the Municipal Corporation who may be authorized by the commissioner to carry out the functions of the City Engineer / the Hydraulic Engineer / the Chief Engineer / the Special Engineer or any other competent person appointed by the employer and notified in writing to the Contractor to act in

replacement of the Engineer from time to time.

**Contractor's Equipment** means all appliances and things of whatsoever nature required for the execution and completions of the Works and the remedying of any defects therein, but does not include plant material or other things intended to form or forming part of the Permanent Works.

**The Initial Contract Price** is the Contract Price listed in the Employer's Letter of Acceptance.

**The Intended Completion Date** is the date on which it is intended that the Contractor shall complete the construction works. The Intended Completion Date is specified in the Contract Data. The Intended Completion Date may be revised only by the Engineer by issuing an extension of time.

**Materials** are all supplies, including consumables, used by the Contractor for incorporation in the Works and works of routine maintenance.

**Plant** is any integral part of the Works that shall have a mechanical, electrical, electronic, chemical or biological function.

**Routine Maintenance** is the maintenance of activities of the completed structure for five years as specified in the Contract Data.

**The "Site"** shall mean the land and other places including water bodies more specifically mentioned in the special conditions of the tender, on, under in or through which the permanent works or temporary works are to be executed and any other lands and places provided by the Municipal Corporation for working space or any other purpose as may be specifically designated in the contract as forming part of the site.

**Site Investigation Reports** are those that were included in the bidding documents and are reports about the surface and subsurface conditions at the Site.

**"Specification"** shall mean the specification referred to in the tender and any modification thereof for addition or deduction thereto as may from time to time be furnished or approved in writing by the Engineer.

**The Start Date/Commencement Date** is given in the Contract Data. It is the date when the

Contractor shall commence execution of the Works. It does not necessarily coincide with any of the Site Possession Dates.

**A Nominated Sub-Contractor** is a person or corporate body who has a Contract with the Contractor to carry out a part of the construction work and/or routine maintenance in the Contract, which includes work on the Site.

**Temporary Works** are works designed, constructed, installed, and removed by the Contractor that are needed for construction or installation of the Works.

**Variation** means a change to the:-

- i) Specification and /or Drawings (if any) which is instructed by the Employer.
- ii) Scope in the Contract which is instructed by the Employer.
- iii) Price in the Contract which is instructed by the Employer.

**The Works**, as defined in the Contract Data, are what the Contract requires the Contractor to construct, install, maintain, and turn over to the Employer. Routine maintenance is defined separately.

**Jurisdiction:** In case of any claim, dispute or difference arising in respect of a contract, the cause of action thereof shall be deemed to have arisen in Mumbai and all legal proceedings in respect of any claim, dispute or difference shall be instituted in a competent court in the City of Mumbai only.

## **1. Interpretation**

In interpreting these Conditions of Contract, singular also means plural, male also means female or neuter, and the other way around. Headings have no significance. Words have their normal meaning under the language of the Contract unless specifically defined. The Engineer will provide instructions clarifying queries about these Conditions of Contract.

If sectional completion is specified in the Contract Data, references in the Conditions of Contract to the Works, the Completion Date, and the Intended Completion Date apply to any Section of the Works (other than references to the Completion Date and Intended Completion Date for the whole of the Works).

The documents forming the Contract shall be interpreted in the following documents: (1)

Agreement, (2) Letter of Acceptance, (3) Notice to Proceed with the Work ,  
(4) Contractor's Bid,  
(5) Contract Data, (6) Special Conditions of Contract Part (7) General Conditions of Contract Part I, (8) Specifications, (9) Drawings, (10) Bill of Quantities, and (11) Any other document listed in the Contract Data.

## **2. Engineer's Decisions**

Except where otherwise specifically stated, the Engineer will decide contractual matters between the Employer and the Contractor in the role representing the Employer. However, if the Engineer is required under the rules and regulations and orders of the Employer to obtain prior approval of some other authorities for specific actions, he will so obtain the approval, before communicating his decision to the Contractor.

Except as expressly stated in the Contract, the Engineer shall not have any authority to relieve the Contractor of any of his obligations under the contract.

## **3. Delegation**

4.1 The Engineer, with the approval of the Employer, may delegate any of his duties and responsibilities to other person(s), except to the Adjudicator, after notifying the Contractor, and may cancel any delegation after notifying the Contractor.

## **4. Communications**

All certificates, notices or instructions to be given to the Contractor by Employer/ Engineer shall be sent on the address or contact details given by the Contractor of Bid. The address and contact details for communication with the Employer/ Engineer shall be as per the details given in Contract Data. Communications between parties that are referred to in the conditions shall be in writing. The Notice sent by facsimile (fax) or other electronic means shall be effective on confirmation of the transmission. The Notice sent by Registered post or Speed post shall be effective on delivery or at the expiry of the normal delivery period as undertaken by the postal service.

## **5. Subcontracting**

Unless specifically mentioned in the contract subletting will not be allowed. Subletting, where otherwise provided by the contract shall not be more than 25% of the contract price.

The Contractor shall not be required to obtain any consent from the Employer for:

- a. the sub-contracting of any part of the Works for which the Subcontractor is named in the Contract;
- b. The provision for labour, or labour component.
- c. The purchase of Materials which are in accordance with the standards specified in the Contract.

Beyond what has been stated in clauses 6.1 and 6.2, if the Contractor proposes sub-contracting any part of the work during execution of the Works, because of some unforeseen circumstances to enable him to complete the Works as per terms of the Contract, the Employer will consider the following before according approval:

- a. The Contractor shall not sub-contract the whole of the Works.
- b. The permitted subletting of work by the Contractor shall not establish any contractual relationship between the sub-contractor and the MCGM and shall not relieve the Contractor of any responsibility under the Contract.

The Engineer should satisfy himself before recommending to the Employer whether

- a. the circumstances warrant such sub-contracting; and
- b. the sub-Contractor so proposed for the Work possesses the experience, qualifications and equipment necessary for the job proposed to be entrusted to him.

## **6. Other Contractors**

The Contractor shall cooperate and share the Site with other Contractors, public authorities, utilities, and the Employer between the dates given in the Schedule of Other Contractors, as referred to in the Contract Data. The Contractor shall also provide facilities and services for them as described in the Schedule. The Employer may modify the Schedule of Other Contractors, and shall notify the Contractor of any such modification.

The Contractor should take up the works in convenient reaches as decided by the Engineer to ensure there is least hindrance to the smooth flow and safety of traffic including movement of vehicles and equipment of other Contractors till the completion of the Works.

## **7. Personnel**

The Contractor shall employ for the construction work and routine maintenance the key personnel including technical personnel named in the Contract Data or other personnel approved by the Engineer. The Engineer will approve any proposed replacement of technical personnel only if their relevant qualifications and abilities are substantially equal to those of the personnel stated in the Contract Data.

The Contractor's personnel shall appropriately be qualified, skilled and experienced in their respective trades or occupations. The Engineer shall have authority to remove, or cause to be removed, any person employed on the site or works, who carries out duties incompetently or negligently and persists in any conduct which is prejudicial to safety, health or the protection of the environment.

If the Engineer asks the Contractor to remove a person who is a member of the Contractor's staff or work force, stating the reasons, the Contractor shall ensure that the person leaves the Site within seven days and has no further connection with the Works in the Contract.

The Contractor shall not employ any retired Gazetted officer who has worked in the Engineering Department of the MCGM /State Government and has either not completed two years after the date of retirement or has not obtained MCGM/State Government's permission to employment with the Contractor.

## **8. Employer's and Contractor's Risks**

9.1 The Employer carries the risks which this Contract states are Employer's risks, and the Contractor carries the risks which this Contract states are Contractor's risks.

## **9. Employer's Risks**

10.1 The Employer is responsible for the excepted risks which are (a) in so far as they directly affect the execution of the Works in the Employer's country, the risks of war, invasion, act of foreign enemies, rebellion, revolution, insurrection or military or usurped power, civil war, riot, commotion or disorder (unless restricted to the

Contractor's employees) and contamination from any nuclear fuel or nuclear waste or radioactive toxic explosive, or (b) a cause due solely to the design of the Works, other than the Contractor's design.

## **10. Contractor's Risks**

11.1 All risks of loss of or damage to physical property and of personal injury and death which arise during and in consequence of the performance of the Contract other than the excepted risks, referred to in clause 11.1, are the responsibility of the Contractor.

## **11. Insurance**

The Contractor at his cost shall provide, in the joint names of the Employer and the Contractor, insurance cover from the Start Date to the end of Defects

Liability Period, in the amounts and deductibles stated in the Contract Data for the following events which are due to the Contractor's risks:

- a) Loss of or damage to the Works, Plant and Materials;
- b) Loss of or damage to Equipment;
- c) Loss of or damage to property (other than the Works, Plant, Materials, and Equipment) in connection with the Contract; and
- d) Personal injury or death.

Insurance policies and certificates for insurance shall be delivered by the Contractor to the Engineer for the Engineer's approval before the Start Date. All such insurance shall provide for compensation to be payable in the types and proportions of currencies required to rectify the loss or damage incurred.

Alterations to the terms of insurance shall not be made without the approval of the Engineer.

Both parties shall comply with any conditions of the insurance policies.

If the Contractor does not provide any of the policies and certificates required, the Employer may affect the insurance which the Contractor should have provided and recover the premiums the Employer has paid, from payments otherwise due to the

Contractor or if no payment is due, the payment of premiums shall be debt due.

## **12. Site Investigation Reports**

13.1 The Contractor, in preparing the Bid, may rely, at his own risk, on any Site Investigation Reports referred to in the Contract Data, supplemented by any other information available to him, before submitting the bid.

## **13. Queries about the Contract Data**

14.1 The Engineer will clarify queries on the Contract Data.

## **14. Contractor to Construct the Works and Undertake Maintenance (if specified in the tender)**

The Contractor shall construct, and install and maintain the Works in accordance with the Specifications and Drawings and as per instructions of the Engineer.

The Contractor shall construct the works with intermediate technology, i.e., by manual means with medium input of machinery required to ensure the quality of works as per specifications. The Contractor shall deploy the equipment and machinery as required in the contract.

The Contractor shall take all reasonable steps to protect the environment on and off the Site and to avoid damage or nuisance to persons or to property of the public or others resulting from pollution, noise or other causes arising as a consequence of his methods of operation.

During continuance of the contract, the Contractor and his sub-contractors shall abide at all times by all existing enactments on environmental protection and rules made there under, regulations, notifications and byelaws of the State or Central Government, or local authorities and any other law, bye-law, regulations that may be passed or notification that may be issued in future by the State or Central Government or the local authority. Salient features of some of the major laws that are applicable are given below:

- The Water (Prevention and Control of Pollution) Act, 1974, this provides for the prevention and control of water pollution and the maintaining and restoring of wholesomeness of water. „Pollution“ means such contamination of water or such alteration of the physical, chemical or biological properties of water or such discharge of any sewage or trade effluent or of any other liquid, gaseous or solid substance into water (whether

directly or indirectly) as may, or is likely to, create a nuisance or render such water harmful or injurious to public health or safety, or to domestic, commercial, industrial, agricultural or other legitimate uses, or to the life and health of animals or plants or of aquatic organisms.

- The Air (Prevention and Control of Pollution) Act, 1981, this provides for prevention, control and abatement of air pollution. „Air Pollution“ means the presence in the atmosphere of any „air pollutant“, which means any solid, liquid or gaseous substance (including noise) present in the atmosphere in such concentration as may be or tend to be injurious to human beings or other living creatures or plants or property or environment.
  
- The Environment (Protection) Act, 1986, this provides for the protection and improvement of environment and for matters connected therewith, and the prevention of hazards to human beings, other living creatures, plants and property.  
„Environment“ includes water, air and land and the inter-relationship which exists among and between water, air and land, and human beings, other living creatures, plants, micro-organism and property.
  
- The Public Liability Insurance Act, 1991, This provides for public liability insurance for the purpose of providing immediate relief to the persons affected by accident occurring while handling hazardous substances and for matters connected herewith or incidental thereto. Hazardous substance means any substance or preparation which is defined as hazardous substance under the Environment (Protection) Act 1986, and exceeding such quantity as may be specified by notification by the Central Government.

## **15. The Works and Routine Maintenance to be completed by the Intended Completion Date**

16.1 The Contractor may commence execution of the Works on the Start Date and shall carry out the Works and Routine Maintenance, if specified in the tender, in accordance with the Programme submitted by the Contractor, as updated with the approval of the Engineer, and complete them by the Intended Completion Date.

## **16. Approval by the Engineer**

The Contractor shall submit Specifications and Drawings showing the proposed Temporary Works to the Engineer, who is to approve them if they comply with the Specifications and Drawings.

The Contractor shall be responsible for design and safety of Temporary Works.

The Engineer's approval shall not alter the Contractor's responsibility for design and safety of the Temporary Works.

The Contractor shall obtain approval of third parties to the design of the Temporary Works, where required.

All Drawings prepared by the Contractor for the execution of the temporary or permanent Works, are subject to prior approval by the Engineer before their use.

## **17. Safety**

The Contractor shall be responsible for the safety of all activities on the Site. He shall comply with all applicable safety requirements and take care of safety of all persons entitled to be on the site and the works. He shall use reasonable efforts to keep the site and the works, both during construction and maintenance, clear of unnecessary obstruction so as to avoid danger to the persons and the users.

- Workers employed on mixing asphaltic materials, cement and lime mortars shall be provided with protective footwear and protective goggles.
- Stone breaker shall be provided with protective goggles and protective clothing and seated at sufficiently safe intervals.
- The area should be barricaded or cordoned off by suitable means to avoid mishaps of any kind. Power warning signs should be displayed for the safety of the public whenever cleaning works are undertaken during night or day.
- The workers engaged for cleaning the manholes/sewers should be properly trained before allowing working in the manhole.

### **Safety Programs:-**

- I. Have adequate safety supervision in place to ensure that safety programs set up by the firms/agencies are in compliance with prevalent laws and regulations.
- II. Review safety programs developed by each of the trade firms, prepare and submit a comprehensive safety program.
- III. Monitor day to day implementation of safety procedures. JJJ.

### **First Aid Facilities: -**

- i. At every work place there shall be provided and maintained, so as to be easily accessible during working hours, first-aid boxes at the rate of not less than one box for 150 contract labour or part thereof ordinarily employed.

- ii. The first-aid box shall be distinctly marked with a red cross on white back ground.
- iii. Adequate arrangements shall be made for immediate recoument of the equipment when necessary.
- iv. Nothing except the prescribed contents shall be kept in the First-aid box.
- v. The first-aid box shall be kept in charge of a responsible person who shall always be readily available during the working hours of the work place.
- vi. A person in charge of the First-aid box shall be a person trained in First-aid treatment, in the work places where the number of contract labour employed is 150 or more.

## **18. Discoveries**

19.1 Anything of historical or other interest or of significant value unexpectedly discovered on the Site shall be the property of the Employer. The Contractor shall notify the Engineer of such discoveries and carry out the Engineer's instructions for dealing with them.

## **19. Possession of the Site**

20.1 The Employer shall handover complete or part possession of the site to the Contractor 7 days in advance of construction programme. At the start of the work, the Employer shall handover the possession of at-least 75% of the site free of all encumbrances, the remaining 25 % of the possession as per contractor's construction programme.

## **20. Access to the Site**

21.1 The Contractor shall allow access to the Site and to any place where work in connection with the Contract is being carried out, or is intended to be carried out to the Engineer and any person/persons/agency authorized by: a. The Engineer b. The Employer or authorized by the Employer.

## **21. Instructions**

The Contractor shall carry out all instructions of the Engineer, which comply with the applicable laws where the Site is located.

The Contractor shall permit the appointed and/or authorized persons to inspect the Site and/or accounts and records of the Contractor and its subcontractors relating to the performance of the Contract, and to have such accounts and records audited by auditors appointed, if so required. The Contractor's attention is invited to Clause of „Fraud and Corruption“, which provides, inter alia, that acts intended to materially impede the exercise of the inspection and audit rights provided for under the Clause & constitute a obstructive practice subject to contract termination.

Engineer to have power to issue further drawings or instructions:

The Engineer shall have the power and authority from time to time and at all times to make and issue such further drawings and to give such further instructions and directions as may appear to him necessary or proper for the guidance of the contractor and the good and sufficient execution of the works according to terms of the specifications and Contractor shall receive, execute, obey and be bound by the same, according to the true intent and meaning thereof, as fully and effectually as though the same had accompanied or had been mentioned or referred to in the specification, and the Engineer may also alter or vary the levels or position of nature of works contemplated by the specifications, or may order any of the works contemplated thereby to be omitted, with or without the substitution of any other works in lieu thereof, or may order any work or any portion of work executed or partially executed, to be removed, changed or altered, added if needful, may order that other works shall be substituted instead thereof and difference of expense occasioned by any such diminution or alteration so ordered and directed shall be added to or deducted from the amount of this Contract, as provided under condition no.10(a) hereinafter.

No work which radically changes the original nature of the Contract shall be ordered by the Engineer and in the event of any deviation being ordered which in the opinion of the Contractor changes the original nature of Contract he shall nevertheless carry it out and disagreement as to the nature of the work and the rate to be paid therefore shall be resolved in accordance with condition no.13d.

The time for completion of the Works, shall be in even of any deviations resulting in additional cost over the contract price being ordered, be extended or reduced reasonably by the Engineer. The Engineer's decision in this case shall be final.

## **B. Time Control**

### **22. Programme**

Within the time stated in the Contract Data, the Contractor shall submit to the Engineer for approval a Programme, including Environment Management Plan showing the general methods, arrangements, order, and timing for all the activities in the Works, along with monthly cash flow forecasts for the construction of works.

After the completion of the construction works, the programme for the Routine Maintenance Work, showing the general methods, arrangements, order and timing for all the activities involved in the Routine Maintenance will also be submitted by the Contractor to the Engineer for approval if specified in the tender. The programme for Routine Maintenance will be submitted in each year for the period of Maintenance.

The Contractor shall submit the list of equipment and machinery being brought to site, the list of key personnel being deployed, the list of machinery/ equipments being placed in field laboratory and the location of field laboratory along with the Programme. The Engineer shall cause these details to be verified at each appropriate stage of the programme.

An update of the Programme shall be a programme showing the actual progress achieved on each activity and the effect of the progress achieved on the timing of the remaining Works, including any changes to the sequence of the activities.

The Contractor shall submit to the Engineer for approval an updated Programme at intervals no longer than the period stated in the Contract Data. If the Contractor does not submit an updated Programme within this period, the Engineer may withhold the amount stated in the Contract Data from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Programme has been submitted.

The Engineer's approval of the Programme shall not alter the Contractor's obligations. The Contractor may revise the Programme and submit it to the Engineer again at any time. A revised Programme shall show the effect of Variations and Compensation Events.

### **23. Extension of Time in Contracts:**

Subject to any requirement in the contract as to completion of any portions or portions of the works before completion of the whole, the contractor shall fully and finally complete the whole of the works comprised in the contract (with such modifications as may be directed under conditions of this contract) by the date entered in the contract or extended date in terms of the following clauses:

## **a) Extension attributable to MCGM**

- (i) Extension Due To Modification:** If any modifications have been ordered which in the opinion of the Engineer have materially increased the magnitude of the work, then such extension of the contracted date of completion may be granted as shall appear to the Engineer to be reasonable in the circumstances, provided moreover that the Contractor shall be responsible for requesting such extension of the date as may be considered necessary as soon as the cause thereof shall arise and in any case **should not be less than 30 days before the expiry of the date fixed for completion of the works.**
- (ii) Extension For Delay Due To MCGM:** In the event of any failure or delay by the MCGM to hand over the Contractor possession of the lands necessary for the execution of the works or to give the necessary notice to commence the works or to provide the necessary drawings or instructions or any other delay caused by the MCGM due to any other cause whatsoever, then such failure or delay shall in no way affect or vitiate the contract or alter the character thereof or entitle the contractor to damages or compensation therefore, but in any such case, the MCGM may grant such extension(s) of the completion date as may be considered reasonable.

**Note: For extension of time period as governed in (i) and (ii) above, any modifications in design/drawings, specifications, quantities shall be needed to be justified with recorded reasons with approval of Ch.Eng. for not anticipating the same while preparing estimates and draft tender.**

- (b) Extension of Time For Delay Due To Contractor:** The time for the execution of the work or part of the works specified in the contract documents shall be deemed to be the essence of the contract and the works must be completed no later than the date(s) / the programme for completion of work as specified in the

contract. If the contractor fails to complete the works within the time as specified in the contract for the reasons other than the reasons specified in above as (a.i) and (a.ii), the MCGM may, if satisfied that the works can be completed by the contractor within reasonable short time thereafter, allow the contractor for further extension of time as the Engineer may decide. On such extension the MCGM will be entitled without prejudice to any other right and remedy available on that behalf, to recover the compensation as governed by Clause 8(e) of GCC.

For the purpose of this Clause, the contract value of the works shall be taken as value of work as per contract agreement including any supplementary work order/contract agreement issued.

**Further, competent authority while granting extension to the currency of contract under Clause (b) of as above may also consider levy of penalty, as deemed fit based on the merit of the case. Also, the reasons for granting extension shall be properly documented.**

## **24. Delays Ordered by the Engineer**

25.1 The Engineer may instruct the Contractor to delay the start or progress of any activity within the Works. Delay/delays totalling more than 30 days will require prior written approval of the DMC/AMC.

## **25. Management Meetings**

The Engineer may require the Contractor to attend a management meeting. The business of a management meeting shall be to review the plans for progress of the Works.

The Engineer shall record the business of management meetings and provide copies of the record to those attending the meeting. The responsibility of the parties for actions to be taken shall be decided by the Engineer either at the management meeting or after the management meeting and stated in writing to all those who attended the meeting.

### **C. Quality Control**

#### **Work to be open to Inspection and Contractor or Responsible agent to be present**

All works under or in course of execution or executed in pursuance of the contract shall at all times be open to the inspection and supervision of the Eng-in-charge and his subordinates and the contractor shall at all times during the usual working hours, at all other times, during the usual working hours and at all other times at which reasonable notice of the intention of the Engg-in-charge and his subordinates to visit the works shall have been given to the contractor, either himself be present to receive orders and instruction or have responsible agent duly accredited in writing present for that purpose. Order given to the contractors" duly authorized agent shall be considered to have the same force and effect as if they had been given to the contractor himself.

#### **Notice to Be Given Before Work Is Covered Up**

The contractor shall give not less than ten days" notice in writing to the Eng-In- Charge or his subordinate in charge of the work before covering up or otherwise placing beyond the reach of measurement any work in order that the same may be measured and correct dimension thereof taken before the same is so covered up or placed beyond the reach of measurements and shall not cover up or place beyond the reach of measurement any work without the consent in writing of the Engg-In-Charge or his subordinate in charge of the work, and if any work shall be covered up or placed beyond the reach of measurement, without such notice having been given or consent obtained the same shall be uncovered at the contractors expenses, and in default thereof no payment or allowance shall be made for such work or for the materials with which the same was executed

#### **Works to be executed in accordance with specifications / drawings / orders etc. :**

The contractor shall execute the whole and every part of the work the most substantial and workman like manner and both has regards material and every other respect in strict accordance with specifications. The contractor shall also confirm exactly, fully and faithfully to the designs, drawings and instructions in writing relating to the work signed by the Engineer In-charge and lodged in his office and to which the contractor shall be entitled to have access for the purpose of inspection at such office, or on the site or work during office hours. The contractor shall be entitled to receive three sets of contract drawings and working drawings as well as one certified copy of the accepted tender along with the work order free of cost.

#### Ready Mix Concrete/ Asphalt Mix

- i) The contractor shall have to arrange Ready Mix concrete (RMC)/Asphalt from RMC/ASPHALT producing plants registered with MCGM
- ii) The contractor shall, within a 7 days of award of the work, submit a list of at least three RMC/Asphalt producers with details of such plants including details and number of transit, mixers & pumps etc. to be deployed indicating name of owner/company, its location, capacity, and technical establishment.

The Engineer-in-charge will reserve right to inspect at any stage and reject the concrete if he is not satisfied about quality of product at the user's end.

- iii) The Engineer-in-charge reserves the right to exercise control over the:-
  - a) Calibration check of the RMC/Asphalt plant.
  - b) Weight and quantity check on the ingredients, water and admixtures added for batch mixing for RMC plants
  - c) Time of mixing of concrete/grade of asphalt.
  - d) Testing of fresh concrete/asphalt mix, recording of results and declaring the mix fit or unfit for use. This will include continuous control on the work ability during production and taking corrective action, if required.
  - e) For exercising such control, the Engineer-in-charge shall periodically depute his authorized representative at the RMC/Asphalt plant. It shall be responsibility of the contractor to ensure that all necessary equipment, manpower & facilities are made available to Engineer-in-charge and or his authorized representative at RMC/Asphalt plant.

- f) All required relevant records of RMC/Asphalt mix shall be made available to the Engineer-in-charge or his authorized representative. Engineer-in-charge shall, as required, specify guidelines & additional procedures for quality control & other parameters in respect of material production& transportation of concrete mix which shall be binding on the contractor & the RMC/Asphalt plant. Only concrete as approved in design mix by Engineer-in-charge shall be produced in RMC plant and transported to the site.
- g) The contractor shall have to produce a copy of chalan receipts/SCADA reports/VTS reports as issued by the RMC/Asphalt plant as a documentary proof in lieu of supply of RMC/Asphalt mix before releasing payment.

## **28. Identifying Defects**

The Engineer shall check the Contractor's work and notify the Contractor of any Defects that are found. Such checking shall not affect the Contractor's responsibilities. The Engineer may instruct the Contractor to search for a Defect and to uncover and test any work that the Engineer considers may have a Defect.

The Contractor shall permit the Employer's technical person(s) to check the Contractor's work and notify the Engineer and Contractor if any defects that are found.

## **29. Tests**

For carrying out mandatory tests as prescribed in the specifications, the Contractor shall establish field laboratory at the location decided by Engineer. The field laboratory will have minimum of equipment's as specified in the Contract Data. The contractor shall be solely responsible for:

- a. Carrying out the mandatory tests prescribed in the Specifications, and
- b. For the correctness of the test results, whether performed in his laboratory or elsewhere.

If the Engineer instructs the Contractor to carry out a test not specified in the Specification/ Quality Assurance Handbook to check whether any work has a Defect and the test shows that it does, the Contractor shall pay for the test and any samples. If there is no defect, the test shall be a compensation event.

When required by the Engineer-in-charge the contractor(s) shall supply for the purpose of testing samples of all materials proposed to be used in the works. Samples submitted either to govern bulk supplies or required for testing before use shall be in suitable packages to contain them and shall be provided free of charge by the contractor. The cost of testing shall be borne by the contractor even if the result of the sample confirm or do not confirm to the relevant BIS code specifications.

- i. All expenditure required to be incurred for taking the samples conveyance, packing shall be borne by the contractor himself.
- ii. The failed material shall be removed from the site by the contractor at his own cost within a week time of written order of the Engineer-in-charge.

**Setting of Site Laboratories:**

Contractors shall set up a laboratory at site before commencement of work at their cost for performing various tests and at least the following machines and equipments shall be provided therein –

1. Set of Sieves as per I.R.C. /I.S.
2. Compressive Testing Machine(For new works)
3. Oven, Electrically Operated
4. Weighing Balance (20 kg capacity)
5. 3 m straight edge
6. Sieve shaker
7. First Aid Box
8. Measuring Jar (for silt content)
9. Other Machines/apparatus as may be directed by the Engineer.
10. Venire Calibre
11. Level / Theodolite

All the test records shall be maintained in the site office and made available as and when required. The laboratory must be established within 15 days from the date of receipt of the orders from Engineer In charge. On failure to do so, a penalty of Rs 1000/- per day shall be imposed.

The contractor shall install testing equipment at site. The contractor shall ensure and certify

the calibration of the equipment so installed and shall maintain the same in working order throughout the period of construction. The contractor shall also provide necessary technically qualified experienced trained staff for carrying out such tests for using such equipment. The tests shall be carried out under the supervision of the Engineer-in-charge. The calibration shall be checked every twelve months as directed by Engineer-in-charge.

**30. Correction of Defects noticed during the Defects Liability Period.**

- (a) The Engineer shall give notice to the Contractor of any Defects before the end of the Defects Liability Period, which begins at Completion and ends after five years. The Defects Liability Period shall be extended for as long as Defects remain to be corrected.
- (b) Every time notice of Defect/Defects is given, the Contractor shall correct the notified Defect/Defects within the duration of time specified by the Engineer's notice.
- (c) The Engineer may issue notice to the Contractor to carry out removal of defects or deficiencies, if any, noticed in his inspection, or brought to his notice. The Contractor shall remove the defects and deficiencies within the period specified in the notice and submit to the Engineer a compliance report.

**31. Uncorrected Defects and Deficiencies**

If the Contractor has not corrected a Defect pertaining to the Defect Liability Period under clause and deficiencies in maintenance, to the satisfaction of the Engineer, within the time specified in the Engineer's notice, the Engineer will assess the cost of having the Defect or deficiency corrected, and the Contractor shall pay this amount, on correction of the Defect or deficiency by another agency.

**D. Cost Control**

**32. Variations**

The Engineer shall, having regard to the scope of the Works and the sanctioned estimated cost, have power to order, in writing, Variations within the scope of the Works he consider necessary or advisable during the progress of the Works. Such Variations shall form part of the Contract and the Contractor shall carry them out and include them in updated Programmes produced by the Contractor. Oral orders of the Engineer for Variations, unless followed by written confirmation, shall not be taken into account.

### **33. Payments for Variations**

If rates for Variation items are specified in the Bill of Quantities, the Contractor shall carry out such work at the same rate.

The rate for Extra/Excess shall be governed by clause 10.A of Standard General Condition of Contract

### **34. Cash Flow Forecasts**

When the Programme is updated, the Contractor shall provide the Engineer with an updated cash flow forecast.

### **35. Payment Certificates**

The payment to the Contractor will be as follows for construction work:

- (a) A bill shall be submitted by the Contractor monthly or before the date fixed by the Engineer In-charge for all works executed in the previous month, and the Engineer In-charge shall take or cause to be taken requisite measurement for the purpose of having the same verified and the claim, so far as it is admissible, shall be adjusted, if possible, within 10 days from the presentation of the bill. If the contractor does not submit the bill within the time fixed as aforesaid, the Engineer In-charge may depute a subordinate to measure up the said work in the presence of the contractor or his duly authorized agent whose counter signature to the measurement list shall be sufficient warrant, and Engineer In-Charge may prepare a bill from such list which shall be binding on the contractor in all respects.
- (b) The Engineer shall check the Contractor's fortnightly/monthly statement within 14 days and certify the amount to be paid to the Contractor.
- (c) The value of work executed shall be determined, based on measurements by the Engineer.
- (d) The value of work executed shall comprise the value of the quantities of the items in the Bill of Quantities completed.
- (e) The value of work executed shall also include the valuation of Variations and Compensation Events.

(f) The Engineer may exclude any item certified in a previous certificate or reduce the proportion of any item previously certified in any certificate in the light of later information.

(g) The contractor shall submit all bills on the printed forms at the office of Engineer In-charge. The charges to be made in the bills shall always be entered at the rates specified in tender.

### **36. Payments**

Payments shall be adjusted for deductions for advance payments, retention, security deposit, other recoveries in terms of the Contract and taxes at source, as applicable under the law. The Employer shall pay the Contractor the amounts certified by the Engineer within 15 days of the date of each certificate.

All sums payable by a contractor by way of compensation under any of these conditions, shall be considered as a reasonable compensation to be applied to the use of MCGM without reference to the actual loss or damage sustained and whether any damage has or has not been sustained.

No payment shall be made for any work estimated to cost less than Rupees One Thousand till after the whole of work shall have been completed and the certificate of completion given. But in the case of works estimated to cost more than Rs. One Thousand, the contractor shall on submitting a monthly bill therefore be entitled to receive payment proportionate to the part of the work than approved and passed by the Engineer In-charge, whose certificate of such approval and passing of the sum so payable shall be final and conclusive against the contractor. All such intermediate payments shall be regarded as payments by way of advance against the final payments only and not as payments for work actual done and completed and shall not preclude the Engineer In-charge from requiring any bad, unsound, imperfect or unskilful work to be removed or taken away and reconstructed or re-erected nor shall any such payment be considered as an admission of the due performance of the contract or any part thereof in any respect or the offering of any claim not shall it conclude, determine or effect in any other way, the powers of the Engineer In-charge as to the final settlement and adjustment of the accounts or otherwise, or in any other way vary or effect the contract. The final bill shall be submitted by the Contractor within one month of the date fixed for the completion of the work otherwise the Engineer In-charge's certificate of the measurements and of the total amount payable for the work

shall be final and binding on all parties.

**37.** The Contractor shall not be entitled to compensation to the extent that the Employer's interests are adversely affected by the Contractor for not having given early warning or not having cooperated with the Engineer.

**38. Tax**

GST and other state levies/cess which are not subsumed under GST will be applicable. The tenderer shall quote inclusive of all taxes. It is clearly understood that MCGM will not bear any additional liability towards payment of any taxes and duties. Wherever the services to be provided by the tenderers falls under reverse charge mechanism, the price quoted shall be exclusive of GST, but inclusive of Taxes/ duties/cess other than GST, if any.

Rates accepted by MCGM shall hold good till completion of work and no additional individual claim shall be admissible on account of fluctuations in market rates; increase in taxes/ any other levies/ tolls, etc. except that payment/recovery for overall market situation shall be made as per price variation.

**39. Currencies**

All payments will be made in Indian Rupees.

**40. Liquidated Damages**

Both, the Contractor and the Employer have agreed that it is not feasible to precisely estimate the amount of losses due to delay in completion of works and the losses to the public and the economy, therefore, both the parties have agreed that the Contractor shall pay liquidated damages to the Employer and not by way of penalty, at the rate per week or part thereof stated in the Contract Data for the period that the Completion Date is later than the Intended Completion Date. Liquidated damages at the same rates shall be withheld if the Contractor fails to achieve the milestones prescribed in the Contract Data. However, in case the Contractor achieves the next milestone, the amount of the liquidated damages already withheld shall be restored to the Contractor by adjustment in the next payment certificate. The Employer and the contractor have agreed that this is a reasonable agreed amount of liquidated damage. The Employer may deduct liquidated damages from payments due to the

Contractor. Payment of liquidated damages shall not affect the Contractor's other liabilities.

#### **41. Cost of Repairs**

Loss or damage to the Works or Materials to be incorporated in the Works between the Start Date and the end of the Defects Correction periods shall be remedied by the Contractor at this cost if the loss or damage arises from the Contractor's acts or omissions.

#### **Finishing the Contract**

##### **42. Completion of Construction and Maintenance**

The Contractor shall request the Engineer to issue a certificate of completion of the construction of the works, and the Engineer will do so upon deciding that the works is completed. This shall be governed as per clause no. 8(g) of Standard General Conditions of Contract.

##### **43. Taking Over**

43.1 The Employer shall take over the works within seven days of the Engineer issuing a certificate of completion of works. The Contractor shall continue to remain responsible for its routine maintenance during the maintenance period if specified in the contract.

##### **44. Final Account**

Final joint measurement along with the representatives of the contractor should be taken recorded and signed by the Contractors. Contractors should submit the final bill within 1 month of physical completion of the work.

If the contractor fails to submit the final bill within 1 month, the MCGM staff will prepare the final bill based on the joint measurement within next 3 months.

Engineer's decision shall be final in respect of claims for defect and pending claims against contractors.

No further claims should be made by the Contractor after submission of the final bill and these shall be deemed to have been waived and extinguished. Payment of those items of the bills in respect of which there is no dispute and of items in dispute, for quantities and rates as

approved by the Commissioner shall be made within a reasonable period as may be necessary for the purpose of verification etc.

After payment of the final bill as aforesaid has been made, the contractor may, if he so desires, reconsider his position in respect of a disputed portion of the final bills and if he fails to do so within 84 days, his disputed claim shall be dealt with as provided in the contract.

A percentage of the retention money, over and above the actual retention money as indicated below shall be held back from payments till the finalization of final bill to be submitted as per above and will be paid within 30 days of acceptance of the final bill.

Sr.no.	Amount of Contract Cost	Minimum Payable Amount in final bill
1	Upto Rs.5 Crs.	Rs.10 Lacs or final bill whichever is more
2	Upto Rs.25 Crs.	Rs.1 Crore or final bill amount whichever is more.
3	UptoRs. 50 Crs.	Rs.2 Crores or final bill amount whichever is more

Act contractor has to submit the bill for the work carried out within 15 days from

	Upto Rs.100 Crs.	Rs.4 Crore or final bill amount whichever is more
	More than Rs.100 Crs.	Rs. 7 croree or final bill amount whichever is more

f completion of the work to the respective executing department. If the contractor fails to submit their bills to concerned executing department, penalty or action as shown below will be taken for each delayed bill:-

After 15 days from the date of completion/running bill upto certain date, upto next 15 days i.e. upto 30 Days	Equal to 5% of bill amount
Next 15 days upto 45 days from the date of completion/running bill upto specified date	Equal to 10% of bill amount
If not submitted within 45 days from the date of completion/ R.A. bill	Bill will not be admitted for payment.

#### **45. Operating and Maintenance Manuals**

If "as built" Drawings and/or operating and maintenance manuals are required, the Contractor shall supply them by the dates stated in the Contract Data.

If the Contractor does not supply the Drawings and/or manuals by the dates stated in the Contract Data, or they do not receive the Engineer's approval, the Engineer shall withhold the amount stated in the Contract Data from payments due to the Contractor.

#### **46. Termination**

The Employer or the Contractor may terminate the Contract if the other party causes a fundamental breach of the Contract.

Fundamental breaches of Contract shall include, but shall not be limited to, the following:

- a) The Contractor stops work for 30 days when no stoppage of work is shown on the current Programme and the stoppage has not been authorized by the Engineer;
- b) The Contractor is declared as bankrupt or goes into liquidation other than for approved reconstruction or amalgamation;
- c) The Engineer gives Notice that failure to correct a particular Defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time determined by the Engineer;

- d) The Contractor does not maintain a Security, which is required;
- e) The Contractor has delayed the completion of the Works by the number of days for which the maximum amount of liquidated damages can be paid, as defined in relevant clause.
- f) The Contractor fails to provide insurance cover as required under relevant clause .
- g) If the Contractor, in the judgment of the Employer, has engaged in the corrupt or fraudulent practices as defined in GCC in competing for or in executing the Contract.
- h) If the Contractor fails to set up a field laboratory with the prescribed equipment, within the period specified in the Contract Data; and
- i) Any other fundamental breaches as specified in the Contract Data.
- j) If the Contractor fails to deploy machinery and equipment or personnel as specified in the Contract Data at the appropriate time.

When either party to the contract gives notice of a breach of contract to the Engineer for a cause other than those listed above, the Engineer shall decide whether the breach is fundamental or not.

Notwithstanding the above, the Employer may terminate the Contract for convenience.

If the Contract is terminated, the Contractor shall stop work immediately, make the Site safe and secure, and leave the Site as soon as reasonably possible.

#### **47. Payment upon Termination**

If the Contract is terminated because of a fundamental breach of Contract by the Contractor, the Engineer shall issue a certificate for value of the work done and materials ordered less liquidated damages, if any, less advance payments received up to the date of the issue of the certificate and less the percentage to apply to the value of the work not completed, as indicated in the Contract Data. If the total amount due to the Employer exceeds any payment due to the Contractor, the difference shall be recovered from the security deposit, and performance security. If any amount is still left un-recovered it will be a debt due from the Contractor to the Employer

If the Contract is terminated at the Employer's convenience, the Engineer shall issue a certificate for the value of the work done, the reasonable cost of removal of Equipment,

repatriation of the Contractor's personnel employed solely on the Works, and the Contractor's costs of protecting and securing the Works and less advance payments received up to the date of the certificate, less other recoveries due in terms of the Contract, and less taxes due to be deducted at source as per applicable law.

#### **48. Property**

All Materials on the Site, Plant, Equipment, Temporary Works, and Works shall be deemed to be the property of the Employer for use for completing balance construction work if the Contract is terminated because of the Contractor's default, till the Works is completed after which it will be transferred to the Contractor and credit, if any, given for its use.

#### **49. Release from Performance**

If the Contract is frustrated by the outbreak of war or by any other event entirely outside the control of the Employer or the Contractor, the Engineer shall certify that the Contract has been frustrated. The Contractor shall make the Site safe and stop work as quickly as possible after receiving this certificate and shall be paid for all

work carried out before receiving it and for any work carried out afterwards to which a commitment was made.

#### **A) Other Conditions of Contract**

#### **50. Labour**

The Contractor shall, unless otherwise provided in the Contract, make his own arrangements for the engagement of all staff and labour, local or other, and for their payment, housing, feeding and transport.

The Contractor shall, if required by the Engineer, deliver to the Engineer a return in detail, in such form and at such intervals as the Engineer may prescribe, showing the staff and the number of the several classes of labour from time to time employed by the Contractor on the Site and such other information as the Engineer may require.

#### **51. Compliance with Labour Regulations**

(a) During continuance of the Contract, the Contractor and his sub-Contractors shall abide at all times by all existing labour enactments and rules made there under, regulations, notifications and bye laws of the State or Central Government or local authority and any

other labour law (including rules), regulations, bye laws that may be passed or notification that may be issued under any labour law in future either by the State or the Central Government or the local authority.

(b) Furthermore, the Contractor shall keep the Employer indemnified in case any action is taken against the Employer by the competent authority on account of contravention of any of the provisions of any Act or rules made there under, regulations or notifications including amendments. If the Employer is caused to pay or reimburse, such amounts as may be necessary to cause or observe, or for non-observance of the provisions stipulated in the notifications/bye laws/Acts/Rules/regulations including amendments, if any, on the part of the Contractor, the Engineer/Employer shall have the right to deduct any money due to the Contractor including his amount of performance guarantee. The Employer/Engineer shall also have right to recover from the Contractor any sum

required or estimated to be required for making good the loss or damage suffered by the Employer.

(c) The Contractor shall require his employees to obey all applicable laws, including those concerning safety at work.

(d) The employees of the Contractor and the Sub-Contractor in no case shall be treated as the employees of the Employer at any point of time.

## **52. Drawings and Photographs of the Works**

The Contractor shall do photography/video photography of the site firstly before the start of the work, secondly mid-way in the execution of different stages of work as required by Engineer In-charge and lastly after the completion of the work. No separate payment will be made to the Contractor for this.

The Contractor shall not disclose details of Drawings furnished to him and works on which he is engaged without the prior approval of the Engineer in writing. No photograph of the works or any part thereof or plant employed thereon, except those permitted under above clause, shall be taken or permitted by the Contractor to be taken by any of his employees or any employees of his sub-Contractors without the prior approval of the Engineer in writing. No photographs/ Video photography shall be published or otherwise circulated without the approval of the Engineer in writing.

### **53. The Apprentices Act, 1961**

The Contractor shall duly comply with the provisions of the Apprentices Act 1961 (III of 1961), the rules made there under and the orders that may be issued from time to time under the said Act and the said Rules and on his failure or neglect to do so, he shall be subject to all liabilities and penalties provided by the said Act and said Rules.

### **54 Contract Document**

The documents forming the contract are to be taken as mutually explanatory of one another. Unless otherwise provided in the contract, the priority of the documents forming the contract shall be, as follows:

- 1) Contract Agreement (if completed)
- 2) The letter of Acceptance
- 3) The Bid:
- 4) Addendum to Bid; if any
- 5) Tender Document
- 6) The Bill of Quantities:
- 7) The Specification:
- 8) Detailed Engineering Drawings
- 9) Standard General Conditions of Contracts (GCC)
- 10) All correspondence documents between bidder/contractor and MCGM.

### **55 Conflict of Interest**

The Applicant shall not have a conflict of interest (the “Conflict of Interest”) that affects the Bidding Process. Any Applicant found to have a Conflict of Interest shall be disqualified. An Applicant shall be deemed to have a Conflict of Interest affecting the Bidding Process, if

1. A constituent of such Applicant is also a constituent of another Applicant; or
2. Such Applicant has the same legal representative for purposes of this Application as any other Applicant; or

3. Such Applicant, or any Associate thereof has a relationship with another Applicant, or any Associate thereof, directly or through common third party/ parties, that puts either or both of them in a position to have access to each other's information about, or to influence the Application of either or each other; or
4. The Applicant shall be liable for disqualification if any legal, financial or technical adviser of the Authority in relation to the Project is engaged by the Applicant, its Member or any Associate thereof, as the case may be, in any manner for matters related to or incidental to the Project. For the avoidance of doubt, this disqualification shall not apply where such adviser was engaged by the Applicant, its Member or Associate in the past but its assignment expired or was terminated 6 (six) months prior to the date of issue of this TENDER. Nor will this disqualification apply where such adviser is engaged after a period of 3 (three) years from the date of commercial operation of the Project.

#### **56. Applications and costs thereof**

No Applicant shall submit more than one Application for the Project. An applicant applying individually shall not be entitled to submit another application either individually. The Applicant shall be responsible for all of the costs associated with the preparation of their Applications and their participation in the Bid Process. The Authority will not be responsible or in any way liable for such costs, regardless of the conduct or outcome of the Bidding Process.

#### **57. Acknowledgment by Applicant**

- a. It shall be deemed that by submitting the Application, the applicant has:
  - a. made a complete and careful examination of the tender;
  - b. received all relevant information requested from the Authority;
  - c. accepted the risk of inadequacy, error or mistake in the information provided in the tender or furnished by or on behalf of the Authority relating to any of the matters referred; and
  - d. Agreed to be bound by the undertakings provided by it under and in terms hereof.

“The Authority” shall not be liable for any omission, mistake or error in respect of any of the above or on account of any matter or thing arising out of or concerning or relating to the TENDER or the Bidding Process, including any error or mistake therein or in any information or data given by the Authority.

#### **58. Right to accept or reject any or all Applications/ Bids**

Notwithstanding anything contained in this TENDER, “The Authority” reserves the right to

accept or reject any Application and to annul the Bidding Process and reject all Applications/ Bids, at any time without any liability or any obligation for such acceptance, rejection or annulment, and without assigning any reasons therefore. In the event that the Authority rejects or annuls all the Bids, it may, in its discretion, invite all eligible Bidders to submit fresh Bids hereunder.

“The Authority” reserves the right to reject any Application and/ or Bid if:

- (a) at any time, a material misrepresentation is made or uncovered, or
- (b) the Applicant does not provide, within the time specified by the Authority, the supplemental information sought by the Authority for evaluation of the Application.

In case it is found during the evaluation or at any time before signing of the Agreement or after its execution and during the period of subsistence thereof including the concession thereby granted by “The Authority”, that one or more of the pre- qualification conditions have not been met by the Applicant, or the Applicant has made material misrepresentation or has given any materially incorrect or false information, the Applicant shall be disqualified forthwith if not yet appointed as the Successful Bidder either by issue of the LOA (Letter of Approval) or entering into of the Agreement, and if the Applicant has already been issued the LOA or has entered into the Concession Agreement, as the case may be, the same shall, notwithstanding anything to the contrary contained therein or in this TENDER, be liable to be terminated, by a communication in writing by “The Authority” to the Applicant, without the Authority being liable in any manner whatsoever to the Applicant and without prejudice to any other right or remedy which the Authority may have under this TENDER, the Bidding Documents, the Concession Agreement or under applicable law.

“The Authority” reserves the right to verify all statements, information and documents submitted by the Applicant in response to the TENDER. Any such verification or lack of such verification by the Authority shall not relieve the Applicant of its obligations or liabilities hereunder nor will it affect any rights of the Authority there under.

## **59 The bid shall be rejected if the bidder-**

- a. Stipulates the validity period less than 180 days.
- b. Stipulates own condition/conditions.
- c. Does not fill and (digital) sign undertaking forms, which are incorporated, in the document.

## **60 Clarifications**

Applicants requiring any clarification on the tender may notify “the Authority” in writing or by fax or e-mail. They should send in their queries before the date specified in the header data. “The Authority” shall endeavour to respond to the queries within the period specified therein. The responses will be sent by fax and/or e-mail. The Authority will forward all the queries and its responses thereto, to all purchasers of the TENDER without identifying the source of queries.

“The Authority” shall endeavour to respond to the questions raised or clarifications sought by the Applicants. However, the Authority reserves the right not to respond to any question or provide any clarification, in its sole discretion, and nothing in this Clause shall be taken or read as compelling or requiring the Authority to respond to any question or to provide any clarification, but not later than the date provided in header data. “The Authority” may also on its own motion, if deemed necessary, issue interpretations and clarifications to all Applicants. All clarifications and interpretations issued by the Authority shall be deemed to be part of the tender. Verbal clarifications and information given by Authority or its employees or representatives shall not in any way or manner be binding on the Authority.

## **61 Amendment of tender**

At any time prior to the deadline for submission of Application, the Authority may, for any reason, whether at its own initiative or in response to clarifications requested by an Applicant, modify the tender by the issuance of Addendum.

Any Addendum thus issued will be sent in writing/ Fax/ Email to all those who have purchased the tender.

In order to afford the Applicants a reasonable time for taking an Addendum into account, or for any other reason, the Authority may, in its sole discretion, extend the Application Due Date.

## **Preparation and Submission of Application**

### **62 Language**

The Application and all related correspondence and documents in relation to the Bidding Process shall be in English language. Supporting documents and printed literature furnished by the Applicant with the Application may be in any other language provided that they are accompanied by translations of all the pertinent passages in the English language, duly authenticated and certified by the Applicant. Supporting materials, which are not translated into English, may not be considered. For the purpose of interpretation and evaluation of the Application, the English language translation shall prevail.

### **63 Format and signing of Application**

The Applicant shall provide all the information sought under this TENDER. The Authority will evaluate only those Applications that are received in the required formats and complete in all respects. Incomplete and /or conditional Applications shall be liable to rejection.

The Applicant will upload bid in One Folder in electronic form which shall contain the scanned certified copies of the documents given below and the documents uploaded has to be digitally signed by the bidder. These copies shall be certified by Practicing Notary approved by the Govt. of Maharashtra or Govt. of India with his stamp, clearly stating his name& registration number, except where original documents are demanded

### **64 Marking of Applications**

The Applicant shall submit the Application in the format specified at Appendix-I, together with the documents, upload in folder as “VENDOR” together with their respective enclosures

Applications submitted by fax, telex, telegram shall not be entertained and shall be rejected outright.

### **65 Late Applications**

Applications received by the Authority after the specified time on the Application Due Date shall not be eligible for consideration and shall be summarily rejected.

### **66 Confidentiality**

Information relating to the examination, clarification, evaluation, and recommendation for the short-listed qualified Applicants shall not be disclosed to any person who is not officially concerned with the process or is not a retained professional advisor advising the Authority in relation to or matters arising out of, or concerning the Bidding Process. The Authority will treat all information, submitted as part of Application, in confidence and will require all those who have access to such material to treat the same in confidence. The Authority may not divulge any such information unless it is directed to do so by any statutory entity that has the power under law to require its disclosure or is to enforce or assert any right or privilege of the statutory entity and/ or the Authority or as may be required by law or in connection with any legal process.

## **67 Clarification Of Financial Bids**

To assist in the examination, evaluation and comparison of Bids, the Engineer may, at his discretion, ask any bidder for clarification of his Bid, including breakdown of unit rates. The request for clarification and the response shall be in writing or by post/facsimile/e-mail. No Bidder shall contact the Engineer on any matter relating to his bid from the time of the bid opening to the time the contract is awarded. Any effort

by the Bidder to influence the Engineer in the Engineer's bid evaluation, bid comparison or contract award decisions may result in the rejection of the Bidder's bid.

## **68 Inspection of site and sufficiency of tender:**

1. The Contractor shall inspect and examine the site and its surrounding and shall satisfy himself before submitting his tender as to the nature of the ground and subsoil (so far as is practicable), the form and nature of the site, the quantities and nature of the work and materials necessary for the completion of the works and means of access to the site, the accommodation he may require and in general shall himself obtain all necessary information as to risk, contingencies and other circumstances which may influence or affect his tender. He shall also take into consideration the hydrological and climatic conditions.
2. The Employer may make available to the Contractor data on hydrological and sub- surface conditions as obtained by or on his behalf from investigations relevant to the works but the Contractor shall be responsible for his own interpretation thereof. The contractor shall engage his investigating agency with prior approval of the Engineer from the approved list of such agencies by MCGM or Govt at his cost initially before commencing actual work and which shall be reimbursed immediately subject to satisfaction of the Engineer for faithful compliance and submission of required data regarding such investigation within specified time.
3. The Contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender for the works and of the rates and prices quoted in the

schedule of works / items / quantities, or in Bill of Quantities, which rates and prices shall, except as otherwise provided cover all his obligations under the Contract and all matters and things necessary for proper completion and maintenance of the works. No extra charges consequent on any misunderstanding.

4. **Not Foreseeable Physical Obstructions or Conditions:** If, however, during the execution of the Works the Contractor encounters physical obstructions or physical conditions, other than climatic conditions on the Site, which obstructions or conditions were, in his opinion, not foreseeable by an experienced contractor, the Contractor shall forthwith give notice thereof to the Engineer. On receipt of such notice, the Engineer shall, if in his opinion such obstructions or conditions could not have been reasonably foreseen by an experienced contractor, after due consultation with the Contractor, determine:

- any extension of time to which the Contractor is entitled and
- The amount of any costs which may have been incurred by the Contractor by reason of such obstructions or conditions having been encountered, which shall be added to the Contract Price and shall notify the Contractor accordingly. Such determination shall take account of any instruction which the Engineer may issue to the Contractor in connection therewith, and any proper and reasonable measures acceptable to the Engineer which the Contractor may take in the absence of specific instructions from the Engineer. However such costing shall be got approved by the competent authority as governed vide rules prevailing with authority.

5. **Office for the Engineer (Works costing up to Rs.50 Lakhs)**

The Contractor shall at his own cost and to satisfaction of the Engineer provide a small temporary office, at the work-site which will include tables, chairs and lockers for keeping the records. He shall also make necessary arrangements for drinking water, telephone with a pre-requisite of e-governance and electronic communication. These offices are not to be allowed on public roads without the written instruction of the Engineer. These offices should be preferably located within 50 to 500 m of the worksite. In case the office is more than 500m away from the worksite, the contractor is to provide conveyance for Municipal Staff.

6. **Office for the Engineer (Works costing above Rs.50 lakhs)**

The Contractor shall at his own cost and to satisfaction of the Engineer provide a temporary office at the work-site which will include tables, chairs and lockers for keeping the records. He shall also

make necessary arrangements for drinking water, latrines, with doors, windows, locks, bolts and fastenings sufficient for security for the Engineer, and his subordinates, as close to the works from time to time in progress as can be conveniently arranged, and shall at his own cost furnish the office with such chairs, tables, lockers, locks and fastenings as may be required by the Engineer, and no expense of any kind in connection with the erection or upkeep of the offices or fittings shall be borne by the Corporation, but all such work shall be carried out by the Contractor and the expenses thereof defrayed by him. The Contractor shall also make water connections and fit up stand pipe with a bib tap at each office. The latrines and the water connections shall be subject to all the conditions herein elsewhere laid down for temporary water connection and latrines generally with all requisite equipment's for e-governance and electronic and digital communication. These offices are not to be allowed on public roads without the written instruction of the Engineer. These offices should be preferably located within 50 to 500 m of the worksite. In case the office is more than 500m away from the worksite, the contractor is to provide conveyance for Municipal Staff.

7. Permission for provision and removal of office on completion of work: The tenderer shall obtain permission for provision of site office, cement go-down, store, etc. on payment of necessary cost implication. The cement go-down, Watchman cabins, etc. shall be provided as directed and shall be removed by the Tenderers on completion of the work at their cost. It is binding on the Tenderer to fulfil requirements of Environmental Authorities. The location of such office shall be finalized and got approved from the Engineer before erection/commencement work.

8. **Contractor's office near works:** The Contractor shall have an office near the works at which notice from the Commissioner or the Engineer may be served and shall, between the hours of sunrise and sunset on all working days, have a clerk or some other authorized person always present at such office upon whom such notices may be served and service of any notices left with such clerk or other authorized person or at such office shall be deemed good service upon the Contractor and such offices shall have pre-requisite facilities for e-governance.

## **69 Official Secrecy:**

The Contractor shall of all the persons employed in any works in connection with the contract that the India Official Secrets Act 1923 (XIX of 1923) applies to them and will continue to apply even after execution of the said works and they will not disclose any information regarding this contract to any third party. The contractor shall also bring into notice that, any information found to be leaked out or disclosed the concern person as well as the Contractor

will be liable for penal action; further the Corporation will be at liberty to terminate the contract without notice.

#### **70 Subsequent Legislation:**

If on the day of submission of bids for the contract, there occur changes to any National or State statute, Ordinance, decree or other law or any regulation or By-laws or any local or other duly constituted authority or the introduction of any such National or State Statute, Ordinance, decree or by which causes additional or reduced cost to the Contractor, such additional or reduced cost shall, after due consultation with the Contractor, be determined by the concerned Engineering Department of MCGM and shall be added to or deducted from the Contract Price with prior approval of competent authority and the concerned Engineering Department shall notify the Contractor accordingly with a copy to the Employer. MCGM reserve the right to take decision in respect of addition/reduction of costing contract.

#### **71 Patent, Right and Royalties:**

The contractor shall save harmless and indemnify the Corporation from and against all claims and proceedings for or on account of infringement of any Patent rights, design trademark or name of other protected rights in respect of any constructional plant, machine work, or material used for or in connection with the Works or any of them and from and against all claims, proceedings, damages, costs, charges and expenses whatsoever in respect thereof or in relation thereto. Except where otherwise specified, the contractor shall pay all tonnage and other royalties, rent and other payments or compensation, if any, for getting stone, sand, gravel, clay or other materials required for the works or any of them.

#### **72 Payments, Tax and Claims:**

##### **The limit for unforeseen claims**

Under no circumstances whatever the contractor shall be entitled to any compensation from MCGM on any account unless the contractor shall have submitted a claim in writing to the Engg-in-charge within 1 month of the case of such claim occurring.

##### **No interest for delayed payments due to disputes, etc:**

It is agreed that the Municipal Corporation of Greater Mumbai or its Engineer or Officer shall not be liable to pay any interest or damage with respect of any moneys or balance which may be in its or its Engineer's or officer's hands owing to any dispute or difference or claim or misunderstanding between the Municipal Corporation of Greater Bombay or its Engineer or Officer on the one hand and the contractor on the other, or with respect to any delay on the part of the Municipal Corporation of Greater Bombay or its Engineer or Officers in making

periodical or final payments or in any other respect whatever.

### **73 Settlement of Disputes:**

#### **Termination of contract for death**

If the Contractor is an individual or a proprietary concern and the individual or the proprietor dies and if the Contractor is a partnership concern and one of the legal representative of the individual Contractor or the proprietor of the proprietary concern and in case of partnership, the surviving partners, are capable of carrying out and completing the contract, the Commissioner shall be entitled to cancel the contract as to its uncompleted part without the Corporation being in any way liable to payment of any compensation to the estate of the deceased Contractor and or to the surviving partners of the Contractor's firm on account of the cancellation of the contract. The decision of the Commissioner that the

Legal representative of the deceased Contractor or surviving partners of the Contractor's firm cannot carry out and complete the contract shall be final and binding on the parties. In the event of such cancellation the Commissioner shall not hold estate of the deceased

Contractor and or surviving partners of the Contractor's firm liable in damages for not completing the contract.

#### **Settlement of Disputes:**

If any dispute or differences of any kind whatsoever other than those in respect of which, the decision of any person is, by the Contract, expressed to be final and binding) shall arise between the Employer and the Contractor or the Engineer and the Contractor in connection with or arising out of the Contract or carrying out of the Works (Whether during the progress of the Works or after their completion and whether before or after the termination, abandonment or breach of the Contract) it, the aggrieved party may refer such dispute within a period of 7 days to the concerned Addl. Municipal Commissioner who shall constitute a committee comprising of three officers i.e. concerned Deputy Municipal Commissioner or Director (ES&P), Chief Engineer other than the Engineer of the Contract and concerned Chief Accountant. The Committee shall give decision in writing within 60 days. Appeal on the Order of the Committee may be referred to the Municipal Commissioner within 7 days. Thereafter the Municipal Commissioner shall constitute a Committee comprising of three Addl. Municipal Commissioners including Addl. Municipal Commissioner in charge of Finance Department. The Municipal Commissioner within a period of 90 days after being requested to do so shall

give written notice of committee's decision to the Contractor. Save as herein provided such decision in respect of every matter so referred shall be final and binding upon both parties until the completion of the works, and shall forthwith be given effect to by the Contractor who shall proceed with the works with due diligence, whether he requires arbitration as hereinafter provided or not. If the Commissioner has given written notice of the decision to the Contractor and no Claim to arbitration has been communicated within a period of 90 days from receipt of such notice the said decision shall remain final and binding upon the Contractor.

#### **74 Arbitration and Jurisdiction:**

If the Commissioner shall fail to give notice of the decision as aforesaid within a period of 90 days after being requested as aforesaid, or if the Contractor be dissatisfied with any such decision, then and in any such case the Contractor may within 90 days after receiving notice of such decision or within 90 days after the expirations of the first named period of 90 days (as the case may be) require that the matter or matters in dispute be referred to arbitration as

Hereinafter provided. All disputes or differences in respect of which the decision (if any) of the Commissioner has not become final and binding as aforesaid shall be finally settled by Arbitration as follows:

Arbitration shall be effected by a single arbitrator agreed upon the parties. The arbitration shall be conducted in accordance with the provisions of the Arbitration Act, 1996 or any statutory modifications thereof, and shall be held at such place and time within the limits of Brihan-Mumbai as the arbitrator may determine. The decision of the arbitrator shall be final and binding upon the parties hereto and the expense of the arbitration shall be paid as may be determined by the arbitrator. Performance under the Contract shall, if reasonably be possible, continued during the arbitration proceedings and payment due to the Contractor by the Employer shall not be withheld unless they are the subject matter of arbitration proceedings. The said arbitrator shall have full power to open up, review and revise any decision, opinion, direction, certification or valuation of the Commissioner and neither party shall be limited in the proceedings before such arbitrator to the evidence or arguments put before the Commissioner for the purpose of obtaining his said decision. No decision given by the Commissioner in accordance with the foregoing provisions shall disqualify him from being called as a witness and giving evidence before the arbitrator on any matters whatsoever relevant to the disputes or difference referred to the arbitrator as aforesaid. All awards shall be in writing and for claims equivalent to 5, 00,000 or more such awards shall state reasons for amounts awarded. The expenditure of arbitration shall be paid as may be determined by arbitrator.

In case of any claim, dispute or difference arising in respect of a contract, the cause of action thereof shall be deemed to have arisen in Mumbai and all legal proceedings in respect of any claim, dispute or difference shall be instituted in a competent court in the City of Mumbai only.

#### **75 Copyright:**

The copyright of all drawings and other documents provided by the Contractor under the contract shall remain vested in the Contractor or his sub-contractors as the case may be the employer shall have a license to use such drawings and other documents in connection with the design, construction, operation, maintenance of the works. At any time the Employer shall have further license without additional payment to the Contractor to use any such drawings or documents for the purpose of making any improvement of the works or enlargement or duplication of any part thereof, provided that such improvement, enlargement, or duplication by itself or in conjunction with any other improvements, enlargements or duplications already made in accordance with the further license does not result in the duplication of the whole works.

#### **76. Receipts to be signed in firm's name by any one of the partners:**

Every receipt for money which may become payable or for any security which may become transferable to the Contractor under these present shall, if signed in the partnership name by any one of the partners, be a good and sufficient discharge to the Commissioner and Municipal Corporation in respect of the money or security purporting to be acknowledged thereby, and in the event of death of any of the partners during the pendency of this contract, it is hereby expressly agreed that every receipt by any one of the surviving partners shall, if so signed as aforesaid, be good and sufficient discharge as aforesaid provided that nothing in this clause contained shall be deemed to prejudice or effect any claim which the Commissioner or the Corporation may hereafter have against the legal representatives of any partners so dying or in respect of any breach of any of the conditions thereof, provided also that nothing in this clause contained shall be deemed prejudicial or affect the respective rights or obligations of the Contractors and of the legal representatives of any deceased Contractors interest.

#### **77 Proprietary data**

All documents and other information supplied by the Authority or submitted by an Applicant to the Authority shall remain or become the property of the Authority. Applicants are to treat all information as strictly confidential and shall not use it for any purpose other than for preparation and submission of their Application. The Authority will not return any Application or any information provided along therewith

## 78 Correspondence with the Applicant

Save and except as provided in this TENDER, the Authority shall not entertain any correspondence with any Applicant in relation to the acceptance or rejection of any Application.

## 79 Price Variation Clause

The Contractor shall be reimbursed or shall refund to the Corporation as the case may be the variation in the value of the work carried out from time to time, depending on whether the prices of material and labour as a whole rise or fall, and the method adopted for such computations shall be as given below, it being clearly understood that the contractor shall have no claim for being reimbursed on the ground that the price of a particular material or group of materials have risen beyond the limits of the presumptions made in the following paras, however, no price variations shall be made applicable for contracts upto 12 months:

- A) Controlled materials: Price variations shall be permitted in respect of these materials the price level of which is controlled by the Government or its agency. The rate ruling on the date of submission of the tender shall be considered as the basic price of such material for adjustment. Any variation in this rate shall be considered for reimbursement to the contractor or refund to be claimed from the contractor as the case may be. The contractor shall, for the purpose of adjustment submit in original the relevant documents from the suppliers.
- B) Labour and other materials: For the purpose of this contract and for allowing reimbursement or refund on account of variation of prices of (i) labour, and (ii) materials other than materials mentioned in A above, computation will be based on the formula enunciated below which is based on the presumptions that :
- i) The general price level of labour, rises or falls in proportion to the rise or fall of consumer price index number 9 (general) for working class in Mumbai.
  - ii) The general price level of materials rises or falls in proportion to rise or fall of whole-sale price index as published by „Economic Adviser to Govt. of India“.
  - iii) And that the component of labour is to the extent of 30 percent of 88 percent and the component of materials is to the extent of 70 percent of 88 percent of the value of the work carried out. The remaining 12 percent being the presumptive profit of the contractor.

a) Formula for Labour component:

$$VL = \frac{(0.88 R) \times 30}{100} \times \frac{(I - IO)}{IO}$$

b) Formula for Material component :

$$VM = \frac{(0.88 R}{x} \times \frac{70 - C}{100} \times \frac{(W - WO)}{WO}$$

where –

VL = Amount of price variation to be reimbursed or claimed as refund on account of general rise or fall of index referred to above.

I = Consumer Price Index number of working class for Mumbai (declared by the Commissioner of Labour and Director of Employment, Mumbai) applicable to the period under reference (base year ending 2004-05 as 100 i.e. new series of indices).

IO = Consumer price index number for working class for Mumbai (declared by the Commissioner of labour and Director of Employment, Mumbai) prevailing, on the day of 28 days prior to the date of submission of the tender.

VM = The amount of price variation to be reimbursed or claimed as refund on account of general rise or fall of wholesale price index for period under reference.

W = Average wholesale price index as published by Economic Adviser to Govt. of India applicable to the period under reference.

WO = Wholesale price index as stated above prevailing on the day of 28 days prior to the date of submission of the tender.

R = Total value of the work done during the period under reference as recorded in the Measurement Book excluding water charges and sewerage charges but including cost

of excess in respect of item up-to 50 percent

C = Total value of Controlled materials used for the works as recorded in Measurement Book and paid for at original basic rate plus the value of materials used .

- i) The quantity of the Controlled material adopted in working out the value of „C“ shall be inclusive of permitted wastages as / if mentioned in specifications.
- ii) The basic rate for the supply of controlled material shall be inclusive of all the components of cost of materials excluding transport charges incurred for bringing the material from place of delivery to the site.

Computations based on the above formula will be made for the period of each bill separately and reimbursement will be made to (when the result is plus) and refund will be claimed from (when the result is minus) the contractor's next bill. The above formulae will be replaced by the formulae in Annexure-I as and when mentioned in special conditions of contract

The operative period of the contract for application of price variation shall mean the period commencing from the date of commencement of work mentioned in the work order and ending on the date when time allowed for the work order and ending on the date when time allowed for the work specified in the contract for work expires, taking into consideration, the extension of time, if any, for completion of the work granted by Engineer under the relevant clause of the conditions of contract in cases other than those where such extension is necessitated on account of default of the contractor.

- C) The decision of the Engineer as regards the operative period of the contract shall be final Adjustment after completion: If the Contractor fails to complete the works within the time for completion adjustment of prices thereafter until the date of completion of the works shall be made using either the indices or prices relating to the prescribed time for completion, or the current indices or prices whichever is more favourable to the employer, provided that if an extension of time is granted, the above provision shall apply only to adjustments made after the expiry of such extension of time.
- D) Price variation will be calculated similarly and separately for extra items and / or excess quantities and provisional sums calculated under Sub Clause 10 (b)A (i)&(ii) and Sub Clause 10 (b) B(ii) based on the above formula/formulae in Annexure-I as and when mentioned in Special conditions of contract; IO and WO being the indices applicable to the

date on which the rates under Sub Clause 10 (a)A (i)&(ii) and Sub Clause 10 (a) B(iii) are fixed. No price variation shall be admissible for FAIR items created during execution.

80. Maximum Price Variation shall be as follows:

Time Period of Project	Maximum limit of Price Variation
Up to 12 months	No variation allowed
Above 12 months to 24 months	5%
Above 24 months	10%

\*Approval of AMC/MC shall be obtained before invitation of tender in case of any changes in above.

Note: 1) The extension in time period for the projects originally estimated including monsoon results in change of price variation slabs as mentioned above i.e. from first slab to second slab or from second slab to third slab, then the maximum limit of original slab will prevail.

2) Operative period shall mean original or extended time period of contract. For example:

Extension of Time period	Maximum Price Variation
If original period of 11 months including monsoon extends to 16. The operative period will be 11+5 months.	No variation allowed
If original period of 11 months excluding monsoon extends to 16. The operative period will be 11+5 months.	Maximum 5% variation allowed

Price Variation during Extended Period of Contract:

(i) Extension Due To Modification & Extension for delay due to MCGM :

The price variation for the period of extension granted shall be limited to the amount payable as per the Indices. In case the indices increases or decreases, above/below the indices applicable, to the last month of the original or extended period vide clause 8(1)(a)(i) and (ii) of standard GCC

(ii) Extension Of Time For Delay Due To Contractor :

(a) The price variation for the period of extension granted shall be limited to the amount payable as per the Indices in case the indices increase, above the indices applicable, to the last month of the original completion period or the extended period vide above clause 8(1) (a)(i) and (ii) of standard GCC.

(b) The price variation shall be limited to the amount payable as per the indices, in case the indices decrease or fall below the indices applicable, to the last month of original / extended period of completion period vide above clause 8(1)(b) of standard GCC, then lower indices shall be adopted.

(iii) Extension of Time for Delay due to reasons not attributable to MCGM and Contractor (Reference Cl. 8(d) of Standard GCC):

The price variation for the period of extension granted shall be limited to the amount payable as per the Indices in case the indices increases or decreases, above/below the indices applicable, to the last month of the original period.

## **81. Payment:**

### **Interim Payment:**

i) Interim bills shall be submitted by the Contractor from time to time (but at an interval of not less than one month) for the works executed. The Engineer shall arrange to have the bill s verified by taking or causing to be taken, where necessary, the requisite measurement of work.

ii) Payment on account for amount admissible shall be made on the Engineer certifying the sum to which the Contractor is considered entitled by way of interim payment for all the work executed, after deducting there from the amount already paid, the security deposit / retention money and such other amounts as may be deductible or recoverable in terms of the contract.

iii) On request, the contractor will be paid upto 75 percent of the value of the work carried out as an adhoc payment in the first week of next month after deducting there from recoveries on account of advances, interest, retention money, income tax etc. The balance payment due will be paid thereafter.

iv) No interim payment will be admitted until such time the Contractor have fully complied with the requirement of the Condition no.8 (g) and 8 (h) concerning submission and approval of Network Schedule for the works, as detailed in Condition 8 (h). A fixed

sum shall be held in abeyance at the time of next interim payment for non-attainment of each milestone in the network and shall be released only on attainment of the said milestone.

v) An interim certificate given relating to work done or material delivered may be modified or corrected by a subsequent interim certificate or by the final certificate. No certificate of the Engineer supporting an interim payment shall of itself be conclusive evidence that any work or materials to which it relates is / are in accordance with the contract.

## **82 Banning/De-Registration of Agencies of Construction works in MCGM**

- The regulations regarding Demotion/ Suspension Banning for specific period or permanently / De-Registration shall be governed as per the respective condition in Contractor Registration Rules of MCGM.**

## **83. JOINT VENTURE**

**In case if Joint Venture is allowed for the Project, the guidelines for JV as follows shall be incorporated in the Tender Document:**

- a) Joint Venture should be allowed only when the number of identifiable different works is more than one and/or the estimated cost of tender is more than Rs.100 Crores. JV shall also be allowed for complex technical work below Rs.100 Crores with the approval of concerned AMC
- b) Separate identity/name shall be given to the Joint Venture firm.
- c) Number of members in a JV firm shall not be more than three in normal circumstances, if the work involves only one discipline (say Civil or Electrical). If number of members in JV is required to be more than three, then approval of concerned AMC needs to be sought.
- d) A member of JV firm shall not be permitted to participate either in individual capacity or as a member of another JV firm in the same tender.
- e) The tender form shall be purchased and submitted in the 'name of the JV firm or any constituent member of the JV.
- f) Normally EMD shall be submitted only in the name of the JV and not in the name of constituent member. However, EMD in the name of lead partner can be accepted subject to submission of specific request letter from lead partner stating the reasons for not submitting the EMD in the name of JV and giving written confirmation from the JV partners to the effect that the EMD submitted by the lead partner may be deemed as EMD submitted by JV firm.
- g) One of the members of the JV firm shall be the lead member of the JV firm who shall have a majority (at least 51%) share of interest in the JV firm. The other members shall have a share of not less than 20% each in case of JV firms with up to three members and not less than 10% each in case of JV firms with more than three members. In case of JV firm with foreign member(s), the lead member has to be an Indian firm with a minimum share of 51%.

- h) A copy of Letter of Intent or Memorandum of Understanding (MoU) executed by the JV members shall be submitted by the JV firm along with the tender. The complete details of the members of the JV firm, their share and responsibility in the JV firm etc. particularly with reference to financial technical and other obligation shall be furnished in the agreement.
- i) Once the tender is submitted, the agreement shall not be modified/altered/terminated during the validity of the tender. In case the tenderer fails to observe/comply with this stipulation, the full Earnest Money Deposit (EMD) shall be forfeited. In case of successful tenderer, the validity of this agreement shall be extended till the currency of the contract expires.
- j) Approval for change of constitution of JV firm shall be at the sole discretion of the MCGM. The constitution of the JV firm shall not be allowed to be modified after submission of the tender bid by the JV firm except when modification becomes inevitable due to succession laws etc. and in any case the minimum eligibility criteria should not get vitiated. In any case the Lead Member should continue to be the Lead Member of the JV firm. Failure to observe this requirement would render the offer invalid.
- k) Similarly, after the contract is awarded, the constitution of JV firm shall not be allowed to be altered during the currency of contract except when modification become inevitable due to succession laws etc. and in any case the minimum eligibility criteria should not get vitiated. Failure to observe this stipulation shall be deemed to be breach of contract with all consequential penal action as per contract condition.
- l) On award of contract to a JV firm, a single Performance Guarantee shall be required to be submitted by the JV firm as per tender conditions. All the Guarantees like Performance Guarantee, Bank Guarantee for Mobilization advance, machinery Advance etc. shall be accepted only in the name of the JV firm and no splitting of guarantees amongst the members of the JV firm shall be permitted.
- m) On issue of LOA, an agreement among the members of the JV firm (to whom the work has been awarded) has to be executed and got registered before the Registrar of the Companies under Companies Act or before the Registrar / Sub-Registrar under the Registration Act, 1908. This agreement shall be submitted by the JV firm to the MCGM before signing the contract agreement for the work. (This agreement format should invariably be part of the tender condition). In case the tenderer fails to observe/comply with this stipulation, the full Earnest Money Deposit (EMD) shall be forfeited and other penal actions due shall be taken against partners of the JV and the JV. This joint venture agreement shall have, inter-alia, following clauses:-
- i. **Joint and several liability** - The members of the JV firm to which the contract is awarded, shall be jointly and severally liable to the Employer (MCGM) for execution of the project in accordance with General and Special conditions of the contract. The JV members shall also be liable jointly and severally for the loss, damages caused to the MCGM during the course of execution of the contract or due to no execution of the contract or part there-of.
  - ii. **Duration of the Joint Venture Agreement** -It shall be valid during the entire period of the contract including the period of extension if any and the maintenance period after the work is completed.
  - iii. **Governing Laws** - The Joint Venture Agreement shall in all respect be governed by and interpreted in accordance with Indian Laws.

- iv. Authorized Member** -Joint Venture members shall authorize one of the members on behalf of the Joint Venture firm to deal with the tender, sign the agreement or enter into contract in respect of the said tender, to receive payment, to witness joint measurement of work done, to sign measurement books and similar such action in respect of the said tender/contract. All notices/correspondences with respect to the contract would be sent only to this authorized member of the JV firm.

No member of the Joint Venture firm shall have the right to assign or transfer the interest right or liability in the contract without the written consent of the other members and that of the employer in respect of the said tender/contract.

**n. Documents to be enclosed by the JV firm along with the tender:**

- i.** In case one or more of the members of the JV firm is/are partnership firm(s), following documents shall be submitted:
- a.** Notary certified copy of the Partnership Deed,
  - b.** Consent of all the partners to enter into the Joint Venture Agreement on a stamp paper of appropriate value (in original).
  - c.** Power of Attorney (duly registered as per prevailing law) in favor of one of the partners to sign the MOU and JV Agreement on behalf of the partners and are-ate liability against the firm.
- ii.** In case one or more members is/are Proprietary Firm or HUF, the following documents shall be enclosed:
- a.** Affidavit on Stamp Paper of appropriate value declaring that his Concern is a Proprietary Concern and he is sole proprietor of the Concern OR he is in position of "KARTA" of Hindu Undivided Family and he has the authority, power and consent given by other partners to act on behalf of HUF.
- iii.** In case one or more members is/are limited companies, the following documents shall be submitted:
- a.** Notary certified copy of resolutions of the Directors of the Company, permitting the company to enter into a JV agreement, authorizing MD or one of the Directors or Managers of the Company to sign MOU, JV Agreement, such other documents required to be signed on behalf of the Company and enter into liability against the company and/or do any other act on behalf of the company.
  - b.** Copy of Memorandum and articles of Association of the Company.Power of Attorney (duly registered as per prevailing law) by the Company authorizing the person to do/act mentioned in the para (a) above.
- o.** All the members of the JV shall certify that they have not been black listed or debarred by MCGM from participation in tenders/contract in the past either in their individual capacity or the JV firm or partnership firm in which they were members / partners.

- p. Credentials & Qualifying criteria: Technical and financial eligibility of the JV firm shall be adjudged based on satisfactory fulfilment of the following criteria:

**Technical eligibility criteria:** In case of Work involving single discipline, the Lead member of the JV firm shall meet at least 35% requirement of technical capacity as stipulated in tender document.

OR

In case of composite works (e.g. works involving more than one distinct component such as Civil Engineering works, M&E works, Electrical works, etc. and in the case of major bridges, substructure and superstructure etc.), at least one member should have satisfactorily completed 35% of the value of any one component of the project work so as to cover all the components of project work or any member having satisfactorily completed 35% of the value of work of each component during last seven financial years.

**In such cases, what constitutes a component in a composite work shall be clearly defined as part of the tender condition without any ambiguity.**

**Financial eligibility criteria:** The contractual payments received by the JV firm or the arithmetic sum of contractual payments received by all the members of JV firm in any one of the previous three financial years and shall be at least **100% of the estimated value** of the work as mentioned in the tender.

#### **84. Compensation for delay:**

If the Contractor fails to complete the works and clear the site on or before the Contract or extended date(s) / period(s) of completion, he shall, without prejudice to any other right or remedy of Municipal Corporation on account of such breach, pay as agreed compensation, amount calculated as stipulated below (or such smaller amount as may be fixed by the Engineer) on the contract value of the whole work or on the contract value of the time or group of items of work for which separate period of completion are

given in the contract and of which completion is delayed for every week that the whole of the work of item or group of items of work concerned remains uncompleted, even though the contract as a whole be completed by the contract or the extended date of completion. For this purpose the term „Contract Value“ shall be the value of the work at Contract Rates as ordered including the value of all deviations ordered:

- Completion period for projects (originally stipulated or as extended) not exceeding 6 months: **to the extent of maximum 1 percent per week.**
- Completion period for projects (originally stipulated or as extended) exceeding 6 months and not exceeding 2 years: **to the extent of maximum ½ percent per week.**
- Completion period for projects (originally stipulated or as extended) exceeding 2 years: **to the extent of maximum ¼ percent per week.**

When the delay is not a full week or in multiple of a week but involves a fraction of a week the compensation payable for that fraction shall be proportional to the number of days involved.

Provided always that the total amount of compensation for delay to be paid this condition shall not exceed the undernoted percentage of the Contract Value of the item or group of items of work for which a separate period of completion is given.

- i) Completion period (as originally stipulated or as extended) not exceeding 6 months:  
**10 percent.**
- ii) Completion period (as originally stipulated or as extended) exceeding 6 months and not exceeding 2 years: **7½ percent.**
- iii) Completion period (as originally stipulated or as extended) exceeding 2 years:  
**5percent.**

The amount of compensation may be adjusted set off against any sum payable to the contractor under this or any other contract with the Municipal Corporation.

#### **85. Action and Compensation Payable In Case Of Bad Work And Not Done As Per Specifications**

All works under or in course of execution or executed in pursuance of the contract, shall at all times be open and accessible to the inspection and supervision of the Engineer-in-charge, his authorized subordinates in charge of the work and all the superior officers, officer of the Vigilance Department of the MCGM or any organization engaged by the MCGM for Quality Assurance and the contractor shall, at all times, during the usual working hours and at all other times at which reasonable notice of the visit of such officers has been given to the contractor, either himself be present to receive orders and instructions or have a responsible agent duly accredited in writing, present for that purpose. Orders given to the Contractor's agent shall be considered to have the same force as if they had been given to the contractor himself.

If it shall appear to the Engineer-in-charge or his authorized subordinates in-charge of the work or to the officer of Vigilance Department, that any work has been executed with unsound, imperfect or unskilful workmanship or with materials of any inferior description, or that any materials or articles provided by him for the execution of the work are unsound or of a quality inferior to that contracted for or otherwise not in accordance with the contract, the contractor shall, on demand in writing which shall be made within twelve months of the completion of the work from the Engineer-in-Charge specifying the work, materials or articles complained of notwithstanding that the same may have been passed, certified and paid for forthwith rectify, or remove and reconstruct the work so specified in whole or in part, as the case may require or as the case may be, remove the materials or articles so specified and provide other proper and suitable materials or articles at his own charge and cost. In the event of the failing to do so within a period specified by the Engineer-in-Charge in his demand aforesaid, then the contractor shall be liable to pay compensation at the same rate as under clause 8.e. of the general condition of contract in section 9 of tender document (for Compensation for delay) for this default. In such case the Engineer-in Charge may not accept the item of work at the rates applicable under the contract but may accept such items at reduced rates as the Engineer in charge may consider reasonable during the preparation of on account bills or final bill if the item is so acceptable without detriment to the safety and utility of the item and the structure or he may reject the work outright without any payment and/or get it and other connected and

incidental items rectified, or removed and re-executed at the risk and cost of the contractor. Decision of the Engineer-in- Charge to be conveyed in writing in respect of the same will be final and binding on the contractor.

If the penalisation amount exceeds maximum limit with respect to Clause 8.e of Standard General Conditions of Contract, then a show cause notice shall necessarily be issued to the contract as to why the contract should not be terminated.

#### **86. Contractors remain liable to pay compensation:**

In any case in which any of the powers conferred upon the Engineer In-charge by the **relevant clauses** in documents that form a part of contract as exercised or is exercisable in the event of any future case of default by the Contractor, he is declared liable to pay compensation amounting to the whole of his security deposit. The liability of the Contractor for past and future compensation shall remain unaffected.

In the event of the Executive Engineer taking action against these **relevant clauses** ,he may, if he so desires, take possession of all or any tools and plant, materials and

stores in or upon the work of site thereof or belonging to the Contractor or procured by him and intended to be used for the execution of the work or any part thereof paying or allowing for the same in account at the contract rates, or in the case of contract rates not being applicable at current market rates to be certified by the Executive Engineer, may after giving notice in writing to the Contractor or his staff of the work or other authorized agent require him to remove such tools and plants, materials or stores from the premises within a time to be specified in such notice and in the event of the Contractor failing to comply with any such requisition, the Executive Engineer may remove them at the contractors expense of sell them by auction or private sell on account of the Contractor at his risk in all respects and certificate of the Executive Engineer as to the expense of any such removal and the amount of the proceeds an expense of any such sell be final and conclusive against the Contractor.

#### **87. No Claim to Any Payment or Compensation Or Alteration In Or Restriction Of Work**

(a) If at any time after the execution of contract documents, the Engineer shall for any reason whatsoever, desires that the whole or any part of the works specified in the Tender should be suspended for any period or that the whole or part of the work should not be carried out, at all, he shall give to the Contractor a Notice in writing of such desire and upon the receipt of such notice, the Contractor shall forthwith suspend or stop the work wholly or in part as required after having due regard to the appropriate stage at which the work should be stopped or suspended so as not to cause any damage or injury the work already done or endanger the safety thereof, provided that the decision of the Engineer as to the stage at which the work or any part of it could be or could have been safely stopped or suspended shall be final and conclusive against the contractor.

The Contractor shall have no claim to any payment or compensation whatsoever by reason of or in pursuance of any notice as aforesaid, on account of any suspension, stoppage or curtailment except to the extent specified hereinafter.

(b) Where the total suspension of Work Order as aforesaid continued for a continuous period exceeding 90 days the contractor shall be at liberty to withdraw from the contractual obligations under the contract so far as it pertains to the unexecuted part of the work by giving 10 days prior notice in writing to the Engineer within 30 days of the expiry of the said period of 90 days, of such intention and requiring the Engineering to record the final measurement of the work already done and to pay final bill. Upon giving such Notice, the Contractor shall be deemed to have been discharged from his obligations to complete the remaining unexecuted work under his contract. On receipt of such notice the Engineer shall proceed to complete the measurement and make such payment as may be finally due to the contractor within a period of 90 days from the receipt of such Notice in respect of the work already done by the contractor. Such payment shall not in any manner prejudice the right of the contractor to any further compensation under the remaining provisions of this clause.

(c) Where the Engineer required to Contractor to suspend the work for a period in excess of 30 days at any time or 60 days in the aggregate, the Contractor shall be entitled to apply to the Engineer within 30 days of the resumption of the work after such suspension for payment of compensation to the extent of pecuniary loss suffered by him in respect of working machinery remained ideal on the site of on the account of his having an to pay the salary of wages and labour engaged by him during the said period of suspension provided always that the contractor shall not be entitled to any claim in respect of any such working machinery, salary or wages for the first 30 days whether consecutive or in the aggregate or such suspension or in respect of any such suspension whatsoever occasion by unsatisfactory work or any other default on his part, the decision of the Engineer in this regard shall be final and conclusive against the contractor.

**88. Contractor to supply plant, ladder, scaffolding, etc. and is liable for damages arising from non-provision of lights, fencing, etc.**

The Contractor shall supply at his own cost all material, plant, tools, appliances, implements, ladders, cordage, tackle scaffolding and temporary works requisite or proper for the proper execution of the work, whether, in the original altered or substituted form and whether included in the specification of other documents forming part of the contract or referred to in these conditions or not and which may be necessary for the purpose of satisfying or complying with the requirements of the Eng-In-Charge as to any matter as to which under these conditions is entitled to be satisfied, or which is entitled to require together with the carriage therefore to and from the work.

The Contractor shall also supply without charge, the requisite number of person with the means and materials necessary for the purpose of setting out works and counting, weighing and assisting in the measurements of examination at any time and from time to time of the work or materials, failing which the same may be provided by the Engineer In-charge at the expense of the contractor and the expenses may be deducted from any money due to the contractor under the contract or from his security deposit or the proceeds of sale thereof, or offers sufficient portion thereof.

The contractor shall provide all necessary fencing and lights required to protect the public from accident and shall also be bound to bear the expenses of defence of every suit, action or other legal proceedings, that may be brought by any person for injury sustained owing to

neglect of the above precautions and to pay any damages and cost which may be awarded in any such suit action or proceedings to any such person or which may with the consent of the contractor be paid for compromising any claim by any such person.

**89. Prevention of Fire :**

The contractor shall not set fire to any standing jungle, trees, brushwood or grass without a written permit from the Engineer In-charge. When such permit is given, and also in all cases when destroying cut or dug up trees brushwood, grass, etc., by fire, the contractor shall take necessary measure to prevent such fire spreading to or otherwise damaging surrounding property. The Contractor shall make his own arrangements for drinking water for the labour employed by him.

**90.** Compensation for all damages done intentionally or unintentionally by contractor's labour whether in or beyond the limits of MCGM property including any damage caused by spreading the fire shall be estimated by the Engineer In-charge or such other officer as he may appoint and the estimate of the Engineer in-charge to the decision of the Dy. Hydraulic Engineer on appeal shall be final and the contractor shall be bound to pay the amount of the assessed compensation on demand failing which the same will be recovered from the Contractor as damages or deducted by the Engineer In-charge from any sums that may be due or become due from MCGM to contractor under this Contract or otherwise. Contractor shall bear the expenses of defending any action or other legal proceedings that may be brought to prevent the spread of fire and he shall pay any damages and costs that may be awarded by the Court in consequence.

**91.** In the case of Tender by partners, any change in the constitution of the firm shall be forthwith, notified by the contractor through the Engineer In-charge for his information.

**92. Action where no specifications :**

In the case of any class of work for which there is no such specifications, such works shall be carried out in accordance with the specifications and in the event of there being no such specifications, then in such case, the work shall be carried out in all respects in accordance with all instructions and requirements of the Engineer In- charge.

**93. Safety and medical help :**

- (i) The Contractor shall be responsible for and shall pay the expenses of providing medical help to any workmen who may suffer a bodily injury as a result of an accident. If such expenses are incurred by MCGM, the same shall be recoverable from the contractor forthwith and be included without prejudice to any other remedy of MCGM from any amount due or that may become due to the Contractor.
- (ii) The contractor shall provide necessary personal safety equipment and first-aid box for the use of persons employed on the site and shall maintain the same in condition suitable for immediate use at any time.
- (iii) The workers shall be required to use the safety equipment's so provided by the contractor and the contractor shall take adequate steps to ensure the proper use of equipment's by those concerned.

(iv) When the work is carried on in proximity to any place where there is risk or drawing all necessary equipment's shall be provided and kept ready for use and all necessary steps shall be taken for the prompt rescue of any person in danger.

**94.** No compensation shall be allowed for any delay caused in the starting of the work on account of acquisition of land or in the case of clearance of works, on account of ant delay in according to sanction of estimates.

**95. Anti-malaria and other health measures:**

Anti-Malaria and other health measures shall be taken as directed by the Executive Health Officer of MCGM. Contractor shall see that mosquito genic conditions are created so as to keep vector population to minimum level. Contractor shall carry out anti-malaria measures in the area as per the guidelines issued by the Executive Health Officer of MCGM from time to time.

In case of default, in carrying out prescribed anti-malaria measures resulting in increase in malaria incidence, contractor shall be liable to pay MCGM on anti- malaria measures to control the situation in addition to fine.

# **SECTION 10**

## **SPECIFICATIONS & SELECTION OF MATERIAL**

## **SPECIFICATIONS & SELECTION OF MATERIAL**

The tender is prepared on the basis of Unified Schedule of Rates and specifications 2018. The specifications of the items of USOR are available on MCGM portal <http://portal.mcgm.gov.in> under the Tender tab. Hence the deserving contractor shall either download the same from MCGM portal or the same may be collected in the soft copy format at the time of purchasing the tender from this office.

### **SELECTION OF MATERIAL**

1. All materials brought on the site of work and meant to be used in the same, shall be the best of their respective kinds and to the approval of the Engineer. The Engineer or his representative will accept that the materials are really the best of their kinds, when it is proved beyond doubt that no better materials of the particular kind in question are available in the market.
2. The contractor shall obtain the approval of the Engineer of samples of all materials to be used in the works and shall deposit these samples with him before placing an order for the materials with the suppliers. The materials brought on the works shall conform in every respect to their approved samples. Fresh samples shall be deposited with the Engineer when-ever the type or source of any material changes.
3. The contractor shall check each fresh consignment of materials as it is brought to the site of works to see that they conform in all respects to the Specifications of the samples approved by the Engineer, or both.
4. The Engineer will have the option to have any of the materials tested to find out whether they are in accordance with the Specifications and the Contractor will bear all expenses for such testing. All B bills, vouchers and test certificates, which in the opinion of the Engineer or his representative are necessary to convince him as to the quality of the materials or their suitability shall be produced for his inspection when required.
5. Any materials that have not been found to conform to the specifications will be rejected forthwith and shall be removed from the site by the contractor at his own cost within 24 hours.
6. The Engineer shall have power to cause the Contractors to purchase and use such materials from any particular source, as may in his opinion be necessary for the proper execution of the work.
7. Notwithstanding the source, the sand shall be washed using sand washing machine before use.

**SECTION 11**

**FRAUD AND CORRUPT  
PRACTICES**

## **FRAUD AND CORRUPT PRACTICES**

□ The Applicants and their respective officers, employees, agents and advisers shall observe the highest standard of ethics during the Bidding Process. Notwithstanding anything to the contrary contained herein, the Authority may reject an Application without being liable in any manner whatsoever to the Applicant if it determines that the Applicant has, directly or indirectly or through an agent, engaged in corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice in the Bidding Process.

□ Without prejudice to the rights of the Authority under relevant Clause hereinabove, if an Applicant is found by the Authority to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice during the Bidding Process, such Applicant shall not be eligible to participate in any tender or RFQ issued by the Authority during a period of 2 (two) years from the date such Applicant is found by the Authority to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice, as the case may be.

□ For the purposes of this Clause , the following terms shall have the meaning hereinafter respectively assigned to them:

**A. “corrupt practice” means**

the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the actions of any person connected with the Bidding Process (for avoidance of doubt, offering of employment to, or employing, or engaging in any manner whatsoever, directly or indirectly, any official of the Authority who is or has been associated in any manner, directly or indirectly, with the Bidding Process or the LOA or has dealt with matters concerning the Concession Agreement or arising there from, before or after the execution thereof, at any time prior to the expiry of one year from the date such official resigns or retires from or otherwise ceases to be in the service of the

Authority, shall be deemed to constitute influencing the actions of a person connected with the Bidding Process); or

save and except as permitted under the relevant sub clause, engaging in any manner whatsoever, whether during the Bidding Process or after the issue of the LOA or after the execution of the Concession Agreement, as the case may be, any person in

respect of any matter relating to the Project or the LOA or the Concession Agreement, who at any time has been or is a legal, financial or technical adviser of the Authority in relation to any matter concerning the Project;

- B. “fraudulent practice”** means a misrepresentation or omission of facts or suppression of facts or disclosure of incomplete facts, in order to influence the Bidding Process ;
- C. “coercive practice”** means impairing or harming or threatening to impair or harm, directly or indirectly, any person or property to influence any persons participation or action in the Bidding Process;
- D. “undesirable practice”** means (i) establishing contact with any person connected with or employed or engaged by the Authority with the objective of canvassing, lobbying or in any manner influencing or attempting to influence the Bidding Process; or (ii) having a Conflict of Interest; and
- E. “Restrictive practice”** means forming a cartel or arriving at any understanding or arrangement among Applicants with the objective of restricting or manipulating a full and fair competition in the Bidding Process.
- F.** If the Employer/Financier determines that the Contractor has engaged in corrupt, fraudulent, collusive, coercive or obstructive practices, in competing for or in executing the Contract, then the Employer may, after giving 14 days” notice to the Contractor, terminate the Contractor’s employment under the Contract and expel him from the Site, and the provisions of relevant Clause shall apply as if such expulsion had been made.
- G.** Should any employee of the Contractor be determined to have engaged in corrupt, fraudulent, collusive, coercive, or obstructive practice during the execution of the Works, then that employee shall be removed in accordance with relevant Clause.

For the purposes of this Sub-Clause:

- i. “corrupt practice” is the offering, giving, receiving to soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;
- ii. “another party” refers to a public official acting in relation to the procurement process or contract execution. In this context, “public official” includes Financer staff and employees of other organizations taking or reviewing procurement decisions.

- iii. “fraudulent practice” is any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;
- iv. “collusive practice” is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;
- v. “coercive practice” is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;
- vi. “obstructive practice” is deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede the Financier investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or
- vii. Acts intended to materially impede the exercise of the Financier’s inspection and audit rights provided .
- viii. “party” refers to a public official; the terms “benefit” and “obligation” relate to the procurement process or contract execution; and the “act or omission” is intended to influence the procurement process or contract execution.
- ix. ”parties” refers to participants in the procurement process (including public officials) attempting to establish bid prices at artificial, noncompetitive levels.
- x. a “party” refers to a participant in the procurement process or contract execution.

**SECTION 12**

**PRE BID MEETING**

## **PREBID MEETING**

Pre-bid meeting of the interested parties shall be convened at the designated date, time and place. A maximum of three representatives of each Applicant shall be allowed to participate on production of authority letter from the Applicant.

During the course of Pre-bid meeting, the Applicants will be free to seek clarifications and make suggestions for consideration of the Authority. The Authority shall Endeavour to provide clarifications and such further information as it may, in its sole discretion, consider appropriate for facilitating a fair, transparent and competitive Bidding Process.

### **Clarification of e-Tendering Documents**

Pre-bid meeting (If proposed as per e-Tender notice)

- a) The tenderer or his authorized representative is allowed to attend a pre-bid meeting as per the date, time and venue mentioned in the tender notice/header data.
- b) The purpose of the pre-bid meeting will be to clarify issues and to answer questions on any matter that may be raised prior to the pre-bid meeting.
- c) Any tenderer requiring any clarification of the tender document and/or the works may submit his questions on A.E.W.W.(M).City's e-mail i.e. arane64@gmail.com. Please note that all emails which will reach the inbox on or before 26.06.2020 till 17.00 hrs will be considered for pre-bid meeting

# **SECTION –13**

## **LIST OF APPROVED BANKS**

## **LIST OF APPROVED BANKS**

1. The following Banks with their branches in Greater Mumbai and in suburbs and extended suburbs up to Virar and Kalyan have been approved only for the purpose of accepting Banker's guarantee from 1997-98 onwards until further instructions.
2. The Bankers Guarantee issued by branches of approved Banks beyond Kalyan and Virar can be accepted only if the said Banker's Guarantee is countersigned by the Manager of a branch of the same Bank, within the Mumbai Limit categorically endorsing thereon that said bankers Guarantee is binding on the endorsing Branch of the bank within Mumbai limits and is liable to be on forced against the said branch of the Bank in case of default by the contractor/supplier furnishing the bankers Guarantee.

### **List of approved Banks:-**

<b>A</b>	<b>S.B.I and its subsidiary Banks</b>
1	State Bank of India.
2	<del>State Bank of Bikaner &amp; Jaipur.</del>
3	<del>State Bank of Hyderabad</del>
4	<del>State Bank of Mysore.</del>
5	<del>State Bank of Patiyala.</del>
6	<del>State Bank of Saurashtra.</del>
7	<del>State Bank of Travankore.</del>
<b>B</b>	<b>Nationalized Banks</b>
8	Allahabad Bank.
9	Andhra Bank.
10	Bank Of Baroda.
11	Bank Of India.
12	Bank Of Maharashtra.
13	Central Bank Of India.

14	Dena Bank.
15	Indian Bank.
16	Indian Overseas Bank.
17	Oriental Bank Of Commerce
18	Punjab National Bank.
19	Punjab & Sindh Bank.
20	Syndicate Bank.
21	Bank Of India.
22	United Bank Of India.
23	UCO Bank.
24	Vijaya Bank.
24A	Corporation Bank.
<b>C</b>	<b>Scheduled Commercial Banks</b>
25	Bank Of Madura Ltd.
26	Bank Of Rajasthan Ltd.
27	Banaras State Bank Ltd.
28	Bharat Overseas Bank Ltd
29	Catholic Syrian Bank Ltd.
30	City Union Bank Ltd.
31	Development Credit Bank.
32	Dhanalakshmi Bank Ltd.
33	Federal Bank Ltd.
34	IndusInd Bank Ltd.
35	I.C.I.C.I Banking Corporation Ltd.
36	Global Trust Bank Ltd.
37	Jammu & Kashmir Bank Ltd.
38	Karnataka Bank Ltd.
39	KarurVysya Bank Ltd.

40	Laxmi Vilas Bank Ltd.
41	Nedugundi Bank Ltd.
42	Ratnakar Bank Ltd.
43	Sangli Bank Ltd.
44	South Indian Bank Ltd.
45	S.B.I Corporation &Int Bank Ltd.
46	Tamilnadu Mercantile Bank Ltd.
47	United Western Bank Ltd.
48	Vysya Bank Ltd.
<b>D</b>	<b>Schedule Urban Co-op Banks</b>
49	Abhyudaya Co-op Bank Ltd.
50	Bassein Catholic Co-op Bank Ltd.
51	Bharat Co-op Bank Ltd.
52	Bombay Mercantile Co-op Bank Ltd.
53	Cosmos Co-op Bank Ltd.
54	Greater Mumbai Co-op Bank Ltd.
55	JanataSahakari Bank Ltd.
56	Mumbai District Central Co-op Bank Ltd.
57	Maharashtra State Co-op Bank Ltd.
58	New India Co-op Bank Ltd.
59	North Canara G.S.B. Co-op Bank Ltd.
60	Rupee Co-op Bank Ltd.
61	Sangli Urban Co-op Bank Ltd.
62	Saraswat Co-op Bank Ltd.
63	ShamraoVithal Co-op Bank Ltd.
64	Mahanagar Co-op Bank Ltd.
65	Citizen Bank Ltd.
66	Yes Bank Ltd.

<b>E</b>	<b>Foreign Banks</b>
67	ABM AMRO (N.Y.) Bank.
68	American Express Bank Ltd.
69	ANZ Grindlays Bank Ltd.
70	Bank Of America N.T. & S.A.
71	Bank Of Tokyo Ltd.
72	Bankindosuez.
73	BanqueNationale de Paris.
74	Barclays bank.
75	City Bank N.A.
76	Hongkong& Shanghai banking Corporation.
77	Mitsui Taiyokbe Bank Ltd.
78	Standard Chartered Bank.
79	Cho Hung Bank.

# **SECTION -14**

## **APPENDIX**

**FORM OF TENDER**

To,

The Municipal Commissioner for Greater  
Mumbai Sir,

I/ We have read and examined the following documents relating to the construction  
of \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- i. Notice inviting tender.
- ii. Directions to tenderers (General and special)
- iii. General condition of contract for Civil Works of the Municipal Corporation of Greater Mumbai as amended up to date.
- iv. Relevant drawings
- v. Specifications.
- vi. Special directions
- vii. Annexure A and B.
- viii. Bill of Quantities and Rates.

1A. I/We \_\_\_\_\_

(full name in capital letters, starting with surname), the Proprietor/ Managing  
Partner/ Managing Director/ Holder of the Business, for the establishment / firm /  
registered company, named herein below, do hereby offer to

.....  
.....

.....  
.....

.....

.....  
.....

.....

Referred to in the specifications and schedule to the accompanying form of contract of the rates entered in the schedule of rates sent herewith and signed by me/us” (strike out the portions which are not applicable).

1B. I/We do hereby state and declare that I/We, whose names are given herein below in details with the addresses, have not filled in this tender under any other name or under the name of any other establishment /firm or otherwise, nor are we in any way related or concerned with the establishment /firm or any other person, who have filled in the tender for the aforesaid work.”

2. I/We hereby tender for the execution of the works referred to in the aforesaid documents, upon the terms and conditions, contained or referred to therein and in accordance with the specifications designs, drawings and other relevant details in all respects.

\* At the rates entered in the aforesaid Bill of Quantities and Rates.

3. According to your requirements for payment of Earnest Money amounting to Rs. \_\_\_\_\_ /-(Rs.

\_\_\_\_\_)

I/We have deposited the amount through online payment gateways with the C.E. of the Corporation not to bear interest

4. I/We hereby request you not to enter into a contract with any other person/s for the execution of the works until notice of non/acceptance of this tender has first been communicated to me/us, and in consideration of yours agreeing to refrain from so doing I/we agree not to withdraw the offer constituted by this tender be-fore the date of communication to me/us of such notice of non/acceptance, which date shall be not later than ten days from the date of the decision of the Standing Committee or Education Committee of the Corporation, as maybe required under the Mumbai Municipal Corporation Act, not to accept this tender.(Subject to condition 5 below).

5. I/We also agree to keep this tender open for acceptance for a period of 180 days from the date fixed for opening the same and not to make any modifications in its terms and conditions which are not acceptable to the Corporation.

6. I/We agree that the Corporation shall, without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely, if.

a. I/We fail to keep the tender open as aforesaid.

b. I/We fail to execute the formal contract or make the contract deposit whencalledupon to do so.

c. I/we do not commence the work on or before the date specified by the En-gineer in his work order.

---

7. I/We hereby further agree to pay all the charges of whatsoever nature in connection with the preparation, stamping and execution of the said contract.
8. I/We further agree that, I/we shall register ourselves as „Employer“ with the Bom-bay Iron and Steel Labour Board“ and fulfill all the obligatory provisions of Ma-harashtraMathadi, Hamal and other Manual workers (Regulation of Employment and Welfare) Act 1969 and the Bombay Iron and Steel unprotected workers Scheme 1970.
9. “I/We .....have failed in the accompanying tender with full knowledge of liabilities and, therefore, we will not raise any objection or dispute in any manner relating to any action, including forfeiture of deposit and blacklisting, for giving any information, which is found to be incorrect and against the instructions and directions given in this tender.
10. “I/We further agree and undertake that in the event it is revealed subsequently after the allotment of work/contract to me/us, that any information given by me/us in this tender is false or incorrect, I/We shall compensate the Municipal Corporation of Greater Mumbai for any such losses or inconvenience caused to the Corporation in any manner and will not resist any claim for such compensation on any ground whatsoever. I/we agree and undertake that I/we shall not claim in such case any amount by way of damages or compensation for cancellation of the contract given to me/us or any work assigned to me/us or is with-

drawn by the Corporation,”

Address

Yours faithfully,

.....

.....

Digital Signature of the Tenderer or the Firm

1.....

2.....

3.....

4.....

5.....

Full Name and private residential address of all the partners constituting the Firm

A/c No.

.....

1. ....

Name of Bank

2. ....

.....

3. ....

Name of Branch

4. .

.....

5. ....

Vender

No

.

.

.....



the Director(E.S.&P.) (hereinafter called “the commissioner” in which expression are included unless the inclusion is inconsistent with the context, or meaning thereof, his successor or successors for the time being holding the office of Director (E,S.& P)of the second part and the Municipal Corporation of Greater Mumbai (hereinafter called “the Corporation”) of the third part, WHEREAS the contractor has tendered for the construction, completion and maintenance of the works described above and his tender has been accepted by the Commissioner (with the approval of the Standing Committee/Education Committee of the Corporation NOW THIS

THIS AGREEMENT WITNESSETH as follows:-

1) In this agreement words and expressions shall have the same meanings as are respectively assigned to them in the General Conditions of Contract for works hereinafter referred to:-

2) The following documents shall be deemed to form and be read and constructed as a part of this agreement viz.

- a) The letter of Acceptance
- b) The Bid:
- c) Addendum to Bid; if any
- d) Tender Document
- e) The Bill of Quantities:
- f) The Specification:
- g) Detailed Engineering Drawings
- h) Standard General Conditions of Contracts (GCC)
- i) All correspondence documents between bidder and MCGM

3) In consideration of the payments to be made by the Commissioner to the contractor as hereinafter mentioned the contractor hereby covenants with the Commissioner to construct, complete and maintain the works in conformity in all

respects with the provision of the contract.

4) The Commissioner hereby covenants to pay to the Contractor in consideration of the construction, completion and maintenance of the works the contract sum, at times and in the manner prescribed by the contract.

IN WITNESS WHERE OF the parties hereto have caused their respective common seals to be herein to affixed (or have hereunto set their respective hands and seals) the day and year above written.

Signed, Sealed and delivered by the contractors

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

In the presence of

Trading under the name and style of

---

---

Full Name

Address

Contractors

Signed by the Director (ES&P) in the presence of

Ex..... City/ WS/ ES

---

---

Director (ES&P)

The Common seal of the Municipal Corporation  
of Greater Mumbai was hereunto affixed on the  
..... 20 in the presence of two mem-  
bers of the Standing Committee.

1.

1.

2.

2.

And in the presence of the Municipal Secretary

Municipal Secretary

## ANNEXURE " A "

**Name of work:** Structural Repairs and up-gradation of Municipal Properties Babula Tank Control Office and Municipal Headquarters Situated at 'B'Ward Compound, Ramchandra Bhatt Marg, Mumbai - 400 009.

1. The Engineer for this work: Dy. Hydraulic .Eng.(Shri. M.S.Vibhute)  
Ex.Eng.( Shri. F. K. Kshirsagar )

**Estimated cost of Tender:** **Rs. 1,43,44,265.47**

**Earnest Money (1% of the Estimated cost) :** **Rs. 1,43,443.00/-**

4. Time Period of Contract as a whole Period completion **8 months (Excluding monsoon)**
5. Percentage to be charged as supervision charges for the work got executed through other means .....percent. The “Actual cost of the work” shall mean in the case of percentage rate contracts the actual cost of the work executed at the rates as mentioned in the Contract Schedule adjusted by the Contractor's percentage rate and cost of extra and excess, but excluding the cost on account of Water Charges and Sewerage Charges if any, payable by the contractor and also excluding cost on account of price variation claims as provided in price variation clause as amended up to date.
6. In case of item rate contracts the actual cost calculated for the work executed at the rates mentioned in the contract schedule for different items including cost of excess and extra items of the work excluding the cost of water charges and sewerage charges if any, payable by the contractor and excluding cost on account of price variation claims as provided in extra excess conditions as amended up to date.
7. In case of lump sum contract the cost of the work actually carried out as per break up and programme of the work and the schedule of payment included in the contract including cost of any excess and/or extra items, of the work, excluding the cost on account of water charges and sewerage charges and also excluding cost on account of price variation claims as provided in extra excess conditions as amended up to date.

## **ANNEXURE- B**

### **PRE-CONTRACT INTEGRITY PACT**

The Bidder commits himself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of his bid or during any pre-contract or post-contract stage in order to secure the contract or in furtherance to secure it and in particular commits himself to the following:-

1. The Bidder will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the MCGM, connected directly or indirectly with the bidding process, or to any person, organization or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the Contract.
2. The Bidder further undertakes that he has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the MCGM or otherwise in procuring the Contract or forbearing to do or having done any act in relation to the obtaining or execution of the Contract or any other Contract with the Government for showing or forbearing to show favour or disfavour to any person in relation to the Contract or any other Contract with the Government.
3. The Bidder will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract.
4. The Bidder will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.
5. The Bidder, either while presenting the bid or during pre-contract negotiations or before signing the contract, shall disclose any payments he has made, is committed to or intends to make to officials of the MCGM or their family members, agents, brokers or any other intermediaries in connection with the contract and the details of services agreed upon for such payments.
6. The Bidder shall not use improperly, for purposes of competition or personal gain, or pass on to others, any information provided by the MCGM as part of the business relationship, regarding plans, technical proposals and business details, including

information contained in any electronic data carrier. The Bidder also undertakes to exercise due and adequate care lest any such information is divulged.

7. The Bidder commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.
8. The Bidder shall not instigate or cause to instigate any third person to commit any of the actions mentioned above.
9. The Bidder and their respective officers, employees, agents and advisers shall observe the highest standard of ethics during the Bidding Process. Notwithstanding anything to the contrary contained herein, the Authority may reject an Application without being liable in any manner whatsoever to the Applicant if it determines that the Applicant has, directly or indirectly or through an agent, engaged in corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice in the Bidding Process the purposes of this Clause 9, the following terms shall have the meaning herein after respectively assigned to them: “fraudulent practice” means a misrepresentation or omission of facts or suppression of facts or disclosure of incomplete facts, in order to influence the Bidding Process ; “coercive practice” means impairing or harming or threatening to impair or harm, directly or indirectly, any person or property to influence any persons participation or action in the Bidding Process; “undesirable practice” means (i) establishing contact with any person connected with or employed or engaged by the Authority with the objective of canvassing, lobbying or in any manner influencing or attempting to influence the Bidding Process; or (ii) having a Conflict of Interest; and “restrictive practice” means forming a cartel or arriving at any understanding or arrangement among Applicants with the objective of restricting or manipulating a full and fair competition in the Bidding Process.

Signature of  
Tenderer/Bidder

## ANNEXURE- C

(On Rs. 500/- Stamp Paper)

### DECLARATION CUM INDEMNITY BOND

I, \_\_\_\_\_ of \_\_\_\_\_, do hereby declared and undertakeas under.

1. I declare that I have submitted certificates as required to Executive engineer

(Monitoring) at the time of registration of my firm/company \_\_\_\_\_ and there is no change in the contents of the certificates that are submitted at the time of registration.

2. I declare that I \_\_\_\_\_ in capacity as Manager/Director/Partners/Proprietors of \_\_\_\_\_ has not been charged with any prohibitory and /or penal action such as banning(for specific time or permanent)/de-registration or any other action under the law by any Government and/or Semi Government and/or Government undertaking.

3. I declare that I have perused and examined the tender document including addendum, condition of contract, specifications, drawings, bill of quantity etc. forming part of tender and accordingly, I submit my offer to execute the work as per tender documents at the rates quoted by me in capacity as \_\_\_\_\_ of \_\_\_\_\_.

4. I further declare that if I am allotted the work and I failed to carry out the allotted work in accordance with the terms and conditions and within the time prescribed and specified, MCGM is entitled to carry out the work allotted to me by any other means at my risk and cost, at any stage of the contract.

5. I also declare that I will not claim any charge/damages/compensation for non availability of site for the contract work at any time.

6. I declare that I will positively make the arrangements of the required equipment on the day of commencement or with respect to the progress of the work in phases, as per the instructions of site in charge.

Signature of  
Tenderer/Bidder

## **BANKERS GURANTEE IN LIEU OF CONTRACT DEPOSIT**

THIS INDENTURE made this \_\_\_\_\_ day of \_\_\_\_\_ BETWEEN

THE \_\_\_\_\_ BANK incorporated under the English/Indian Companies Acts and carrying on business in Mumbai (hereinafter referred to as 'the bank' which expression shall be deemed to include its successors and assigns) of the first part

\_\_\_\_\_

inhabitants carrying on business at \_\_\_\_\_ in Mumbai under the style and name of Messer"s \_\_\_\_\_ (hereinafter referred to as 'the consultant') of the second part Shri. \_\_\_\_\_

THE MUNICIPAL COMMISSIONER FOR GREATER MUMBAI (hereinafter referred to as 'the commissioner' which expression shall be deemed, also to include his successor or successors for the time being in the said office of Municipal Commissioner ) of the third part and THE MUNICIPAL CORPORATION OF GREATER MUMBAI (hereinafter referred to as 'the Corporation') of the fourth part WHEREAS the consultants have submitted to the Commissioner tender for the execution of the work of " \_\_\_\_\_ and the terms of such tender /contract require that the consultants shall deposit with the Commissioner as/contract deposit/ earnest money and /or the security a sum of Rs. \_\_\_\_\_ (Rupees

\_\_\_\_\_ ) AND WHEREAS if and when any such tender is accepted by the Commissioner, the contract to be entered into in furtherance thereof by the consultants will provide that such deposit shall remain with and be appropriated by the Commissioner towards the Security - deposit to be taken under the contract and be redeemable by the consultants, if they shall duly and faithfully carry out the terms and provisions of such contract and shall duly satisfy all claims properly chargeable against them there under AND WHEREAS the consultants are constituents of the Bank and in order to facilitate the keeping of the accounts of the consultants, the Bank with the consent and concurrence of the consultants has requested the Commissioner to accept the undertaking of the Bank hereinafter contained, in place of the contractors depositing with the Commissioner the said sum as earnest money and /or security as aforesaid AND WHEREAS accordingly the Commissioner has agreed to accept such undertaking NOW THIS AGREEMENT WITNESSES that in consideration of the premises, the Bank at the request of the consultants ( hereby testified ) UNDERTAKES WITH the commissioner to pay to the commissioner upon demand in writing , whenever required by him , from time to time , so to do , a sum not exceeding in the whole

Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) under the terms of the said tender and /or the contract .The B.G. Is valid upto \_\_\_\_\_”Notwithstanding anything what has been stated above, our liability under the above guarantee is restricted to Rs. \_\_\_\_\_ only and

guarantee shall remain in force upto \_\_\_\_\_ unless the demand or claim under this guarantee is made on us in writing on or before \_\_\_\_\_ all your right under the above guarantee shall be forfeited and we shall be released from all liabilities under the guarantee thereafter”

IN WITNESS WHEREOF

WITNESS(1) \_\_\_\_\_

Name and \_\_\_\_\_

address \_\_\_\_\_

WITNESS(2) \_\_\_\_\_

Name and \_\_\_\_\_ the duly constituted Attorney Manager

address \_\_\_\_\_

the Bank and the said Messer’s \_\_\_\_\_

\_\_\_\_\_ (Name of the Bank)

WITNESS(1) \_\_\_\_\_

Name and \_\_\_\_\_

address \_\_\_\_\_

WITNESS(2) \_\_\_\_\_

Name and \_\_\_\_\_

For Messer’s \_\_\_\_\_

address \_\_\_\_\_

have here into set their respective hands the day and year first above written.

**The amount shall be inserted by the Guarantor, representing the Contract Deposit in Indian Rupees.**

Annexure- D

Rate Analysis

Sr.No.	Description of rate analysis Parameters	Unit	Quantity	Rate	Amount
1	Basic Material (Rate should be inclusive of all taxes)				
2	Machinery Hire Charges				
3	Labour Type		(labour components)		
4	Total of all components				
5	Overhead & Proffit 15% on 4				
6	Total Rate (4+5)				
7	Per unit rate				

Sign & Seal of the  
Tenderer

**PROFORMAS:**

**PROFORMA- I**

The list of similar works as stated in para „A“ of Post qualification during last Seven years:

Sr. No.	Name of the Project	Name of the employer	Stipulated date of completion	Actual date of completion	Actual Cost of work done
1	2	3	4	5	6

**NOTE:**

Scanned Attested copies of completion/performance certificates from the Engineer-in-Charge for each work should be annexed in the support of information furnished in the above proforma.

Works shall be grouped financial year-wise.

**PROFORMA- II**

Yearly turnover of Civil Engineering Construction Works during the last Five years.

Sr. No.	Financial year	Annual Turnover of Civil Engineering Works	Updated value to current year	Average of last 5 years	Page No.
1					
2					
3					
4					
5					
Total					

**NOTE:** The above figures shall tally with the audited balance sheets uploaded by the tenderers duly certified by Chartered Accountant.

**PROFORMA- III**

Atleast similar work, as stated in para „A“ of Post qualification,.

Name of project	Name of employer	Cost of the Project	Date of issue of work Order	Stipulated Date of Completion	Actual Date of Completion	Actual cost of work done	Remarks explaining reasons delay, if any
1	2	3	4	5	6	7	8

**Note:** Scanned Attested copies of completion/performance certificates from the Engineer-in-charge for each work should be annexed in support of information furnished in the above proforma.

**PERSONNEL:**

<b>PROFORMA-IV</b>					
Sr. No.	Post	Name	Qualification	Work Experience	
		Prime Candidate/ Alternate		No of Years	No of Projects

**NOTE:** Scanned Attested copies of qualification certificates and details of work experience shall be submitted /uploaded.

**MACHINERY: (for special work only)**

<b>PROFORMA- V/A</b>			
Sr. No.	Equipment	Number	Owned/ Leased/ Assured access
1	2	3	4

<b>PROFORMA- V/B</b>			
Sr. No.	Equipment	Number	Owned
1	2	3	4

**Note:** The tenderer(s) shall furnish/ upload the requisite Scanned Attested documents of ownership/ leased of machineries.

The undertaking from the suppliers will not be accepted.

**PROFORMA - VI / A**

Details of Existing Commitments and ongoing works:

<b>PROFORMA - VI / A</b>							
Description of work	Place	Contract No.& Date	Name & Addresses of employer	Value of Contract in Rs.	Scheduled date of completion	Value of work remaining to be completed	Anticipated of complet
1	2	3	4	5	6	7	8

**Note:** Scanned Attested copies of completion/performance certificates from the Engineer in-Charge for each work should be annexed in the support of information furnished in the above proforma.

**PROFORMA - VI / B**

Details of works for which bids are already uploaded

<b>PROFORMA - VI / A</b>							
Description of work	Place	Contract No.& Date	Name & Addresses of employer	Value of Contract in Rs.	Scheduled date of completion	Value of work remaining to be completed	Anticipated of complet
1	2	3	4	5	6	7	8

Note:- Scanned Attested copies of certificates from the Engineer-in-charge for each work shall be annexed.

**SECTION 15**

**SPECIAL CONDITIONS**

**OF TENDER**

**AND SPECIAL**

**DIRECTIONS TO THE**

**BIDDERS**

## **SPECIAL CONDITIONS OF THE TENDER**

1. Refer circular no. Dy. Ch. Eng/SWM/3957/OD dt. 28.09.2018 for implementation of the construction and Demolition waste management Rules, 2016
2. The surplus excavated material shall be disposed of by contractor from the premises completely as per debris management plan to be obtained by the contractor from AE (Env.) of concern ward and no claim for payment will be entertained on accounts of lead, lift, transportation etc what so ever. Also, payment to appropriate authority will be the responsibility of the contractor.
3. The contractor should provide barricading for protection of work site at his own cost to the work site in conformity with the circular U/No.MGC/F/6342 dtd 05.05.2018 as directed by Engineer for which no payment will be made.
4. The Bidder should submit indemnity bond on stamp paper of Rs.500/- indemnifying M.C.G.M.and its officers against any mishaps, causalities and loss of human life during the progress of work as well as during the defect liability period.
5. Contractor must quote the rate with respective of detailed study & scrutiny of BOQ items & quantities. Contractor will not be considered for any kind of additional payment in the latest stage of project for any missing items or extra items or excess items which are necessary for satisfactory completion of work.
6. All the requisite permissions/statutory permissions from state Govt., Central govt., Collector, Electrical supply authorities, Environmental, Local surroundings, Ward office etc. required to commence, execute, commissioned and hand over the project under reference smoothly, shall be obtained by bidder. Bidder shall note the same & quote accordingly. Nothing extra will be paid to contractor for above purpose. Only letters will be issued from M.C.G.M. to various authorities/departments for obtaining various permissions required to execute the work under reference smoothly and in time.
7. In case of any discrepancy in various conditions specifications in the bid document and GCC stringent conditions/stipulations shall apply.
8. The EMD of the Bidders will be forfeited if bidders submit misleading information and non- workable rate analysis.

## **SPECIAL DIRECTIONS TO THE BIDDER**

1. Tenderers are requested to visit the site and verify the site conditions, nature and quantum of work before submitting the tenders.
2. The tender may be considered incomplete, irregular and invalid unless
  - i) It is signed by the proprietor, named managing partner or all partners or by the party or parties stating specifically their position and status at the following three places;
    - a) The printed undertaking addressed to the Municipal Commissioner is

given.

b) The schedule of quantities and rates and specifications.

c) The authority letter from the manufacturer / agent / traders submitted by the tenderer.

ii) The names and address of all the partners are given in the space provided therefore.

iii) As certified copy of Sales Tax registration certificate is produced along with the tender.

3. The amount quoted shall include for provision of all necessary labour, plant, equipment, scaffolding and centering, propping wherever required etc.

4. The rates quoted shall be firm and no variation will be allowed on any account.

5. It is mandatory for the contractors to open a Bank Account in any of the banks approved by MCGM for easy and quick payments. All payments under the contract will be made only on this Bank Account through Electronic Clearing System/ RTGS/ NEFT/ CBS

6. Insurance: Before commencing execution of work, contractor should ensure at his cost against any damage, loss or injury that may occur to any property including any of their personal and employee of Municipal Corporation arising out of contract.

All insurances to be effected by the successful tenderer shall be taken up with the Director of Insurance, Maharashtra State only.

7. Security Deposit: Successful Tenderer shall have to pay a security deposit as per G.C.C. w.e.f. 27.09.2016 as amended up to date.

8. Addition / alteration :

Any addition / alteration / omission required for any work shall be carried out only after obtaining prior approval of the Engineer in writing.

9. The tenderer / contractor will have to make good, without any extra payment any damage or loss to the Municipal property while executing the work.

10. Maximum care should be taken to the satisfaction of the Engineer to provide and maintain adequate protection to all electrical and mechanical installations. No extra payment will be made on this account under any circumstances.

11. Contractor will have to make their own arrangement for getting the electric supply on site for fabrication and allied works at their own cost.

12. The contractor shall intimate the concerned authorities before starting the work and execute the work priority fixed by the Engineer-in-charge. The inventory of serviceable and unserviceable material must be taken jointly with Site-in-charge (Sub-Engineer) before starting of work.

13. Wherever necessary as directed by Engineer-in-charge, the unserviceable materials will have to be removed from the site within the time period as directed. The serviceable material should be handed over to concerned Assistant Commissioner of the Ward.

14. The Corporation will not be responsible for any delay that may be caused due to unforeseen circumstances and no compensation on this account will be paid.
15. Materials brought on the site or debris will not be allowed to be stacked on road & footpath.
16. After completion of the waterproofing work, the leakage test shall be carried out after impounding the water and plugging the openings at least for ten days, without any extra cost.
17. Plumbing and sanitary works will have to be carried out through licensed plumber. All plumbing lines will be provided 2" away from wall with spaces as directed. The horizontal and vertical lines should be in line & level.
18. Notwithstanding the source, the sand shall be washed using electrically operated sand washing machine, before use.
19. The contractor shall take photographs of the work site before commencing, during execution and after completion of work, as directed.
20. The contractor shall take photographs with date & time of all hidden items of the work, before commencing, during execution and after completion of work & maintain the photographic record of all the items executed to justify execution of the work at the risk & cost of the contractor. The register should be duly signed by site-in-charge and Tenderer(s) fortnightly. Failure to abide this condition of Rs. 1000/- per photograph copy will be recovered from the contractor's bill.
21. After completion of the proposed work, the tenderer/ contractor will have to hand over the site in neat and clean condition for which no extra payment will be made.
22. The contractor have to provide for site office as per requirement either on his/ her owned place or rented/ leased place. Cost for this may be charged to MCGM by incorporating in the offer. No separate payment may be made for providing the chowky and ancillary items. No permission and space for site chowky will be given / provided on Municipal road/ footpath. The contractor have to make their own arrangement on hire/ lease for site office. A penalty of Rs.1000/- per day will be imposed for Chowky with above facilities, if not provided on site.
23. The noise level shall be maintained within the permissible limit in Silence Zone area during the construction activities by the Contractors as per the notification dated 14-02-2000 issued by the Ministry of Environment and Forests. Municipal Corporation of Greater Mumbai do not have site available for disposal of Debris / Demolition material / excavated earth. The Contractor shall dispose these materials properly at his own risk & cost as directed by MCGM. The contractor shall quote the tender keeping these in mind. No separate payment shall be made for disposal of these Debris / Demolition material / excavated earth. The bidder shall note that M.C.G.M may appoint consultant for quality audit during execution period. The successful bidder will extend full cooperation and all the necessary help in carrying out any survey; test etc. as directed and adverse decision thereof including rectification.

24. If due to small quantity of concrete (Less than 10 Cu.m.) or if concrete is not to be used as structural concrete nominal mix of equivalent strength may be made on site by the permission of Engineer, not below the Executive Engineer. However, rebate of Rs. 100/- per Cu. M. shall be taken for non-using the mix design.
25. The site shall be cleared by removing all surplus material/silt/earth/debris on or before 31st May of every year
26. The contractors shall display the boards giving information of name of the work, date of starting completion, Name of the department and contact telephone numbers. Non-compliance of this condition, a penalty of Rs. 1000/- per day per site shall be imposed on contractor.
27. Successful Bidder has to carry out pull out test of anchor for at least 1% or more of total quantity as per the instructions of Engineer-In Charge for Fair item no. 3 at his own cost.

## **28. PENALTY CLAUSES**

- a. The Engineer not below the rank of Assistant Engineer is entitled to impose a penalty of Rs.2500/- per day for each defective work/lapse, disobedience of orders of the officer not below the rank of Site Engineer. Penalty amount will be recovered from contractors running bill.

This penalty is over and above Penalty mentioned under G.C.C. clause No. 100

- b. If it is observed that, the Tenderer(s) carrying out the work fails to comply with the instructions given by the authorities at the A.M.C./M.C.'s level during execution of work twice, the work will be terminated and will be carried out at the risk and cost of the Tenderer(s) and penal action will be taken against them. This decision will not be arbitrable at all.
- c. The stacked surplus excavated materials shall be removed immediately, failing which a penalty of Rs.5000/- per day per spot will be imposed.
- d. Tenderer(s) are requested to take cognizance of the child labour act and to take precaution not to deploy child labourers on the work. If child labourers are found deployed on the work, a penalty of Rs. 5,000/- on the spot will be imposed on the defaulting contractor and further action as deemed fit will be taken.
- e. If the site office with the necessary requirements is not provided within 15 days from the receipt of work order, penalty of Rs.2000/- per day will be imposed.
- f. The contractors shall provide proper safety gears to their staff, labours. Failure to provide safety gears as per above clause a penalty of Rs.1000/- per labour per day shall be imposed. The contractor will be fully responsible towards the safety of staff and labour for the entire Contract period.
- g. Any recommendation / alteration in the work as per decision of Competent Authority of M.C.G.M. shall have to be executed under the same tender conditions.
- h. If concrete surface Finish of work is not as per specified class of finish (i.e

F1, F2, etc.) and honeycombing is observed in the surface, penalty of Rs. 5000/- per Sq.m. will be imposed.

- i. The Tenderer(s) shall implement anti-malarial measures for each site during execution of works in case of failure to implement above measures a penalty of Rs.5000/- per day per personnel shall be imposed.
- 29.The contractors will have to obtain permission from the traffic police department well in advance either for closing down the road stretch or for diversion of traffic for execution of the work by displaying appropriate boards. The work may be required to be executed in phases as per traffic police permission. The contractors should therefore take this factor into account while quoting.
- 30.The tenderer(s) should note that the work shall be carried out preferably during day time i.e. from 09.00 am to 06.00 pm only If required to be executed during night hours, holidays & weekly offs, the specific sanction of the competent authority to be obtained.
- 31.Even though the Tenderer(s) takes all the precautionary measures and by chance any workman is injured or dies due to negligence or otherwise, the Tenderer(s) will be responsible for the claims of damages by the workman or his legal heirs.
- 32.The Tenderer(s) has to check health of all the labourers employed by him at every fortnight and take precautionary measures and treatment as per the advice of Medical Officer. If record is not maintained by the Contractor, penalty of Rs. 1000/- per labour will be imposed.
- 33.Web Connectivity: The Tenderer(s) shall provide web connectivity to all above monitoring system. Web connectivity shall have minimum 1 MBPS Internet speed & 100% availability. Software should be intelligent. In case of connectivity failure it should maintain the pending files and send them as soon as it is connected. The Tenderer(s) shall make sure that the entire software and hardware solution is virus free.
- 34.Quantities of all items provided in the B.O.Q. may not be required to be executed depending upon site conditions. M.C.G.M. reserves right to make any changes in scope of work / reduction of part or whole work. The tenderer shall not be entitled to claim any damages/compensation etc. for less quantity executed or cancellation of whole work or part thereof.
- 35.All the necessary precautions, safety measures etc. for the contractors staff at the work site shall be the responsibility of the successful tenderer(s). The successful tenderer(s) shall also be liable for any injury to the life & damage to private, municipal or government properties if any caused by them during the operations connected with this work. In this if any legal issues arise in any term the contractors will be solely responsible for such kind of legal issues/disputes and M.C.G.M. will not be a party in this matter.
- 36.Work Records: - All specified up to date site record should be maintained by the contractors. If the Tenderer(s) fails to comply with this condition, the penalty of Rs.1000/- per day per record will be imposed on the contractors.

List of Registers	
Sr. No.	Name of Register
1	Inventory Register
2	Correspondence file

3	External & internal utility remarks file
4	File containing drawings
5	Daily Progress Register
6	Instruction Register
7	Level Book
8	Mix design file
9	Materials Testing Result file
10	Photograph file
11	Excavation Register (Asphalt , rock, soil etc)
<del>12</del>	<del>Filling/Embankment Register</del>
<del>13</del>	<del>Granular Sub-base / K.T.R.Register</del>
<del>14</del>	<del>Wet mix Macadam ./ Water Bound Macadam .Register</del>
<del>15</del>	<del>Sand Metal Filling Register</del>
16	Misc work register
17	M 15 CC Register
18	M 20 CC Register
19	<del>M 40 CC Register</del>
20	M15,M20, M35/M40 Cube & Beam registers
21	Ready Mix Concrete Challan file
22	Cement Variation Register
23	Cement Register
24	<del>Asphalt macadam (mixes) register</del>
25	<del>Dense Bituminous Macadam Register</del>
26	<del>Asphalt concrete /Seal coat Register</del>
27	<del>Asphalt challan file</del>
28	Penalty Register.
29	Steel register
30	<del>Visual/ video recordings in form of CD's</del>
31	Form work shuttering register
32	<del>Precast register</del>

33	Any other register as per directions of Engineer in Charge.
NOTE	From above list the registers applicable for the specified work shall be maintained

The bidder shall note that M.C.G.M may appoint consultant for quality audit during execution period. The successful bidder will extend full cooperation and all the necessary help in carrying out any survey; test etc. as directed and adverse decision thereof including rectification.

**SECTION –16**  
**G. S. T.**  
**(Goods and Service Tax)**

## **GST CONDITION**

“Chapter XXI- Miscellaneous, section 171(1) of GST Act, 2017 governs the „Anti Profiteering Measure“ (APM).

As per the provision of this section,“ Any reduction in rate of tax on any supply of goods or services or the benefit of input tax credit shall be passed on to the recipient by way of commensurate reduction in prices“

Accordingly, the contractor should pass on the complete benefit accruing to him on account of reduced tax rate or additional input tax credit, to MCGM.

Further, all the provisions of GST Act will be applicable to the tender.”

G.S.T. and other state levies/cess which are not subsumed under GST will be applicable. The tenderer shall quote inclusive of all taxes. It is clearly understood that MCGM will not bear any additional liability towards payment of any Taxes and Duties.

Wherever the services to be provided by the tenderers falls under Reverse Charge Mechanism, the price quoted shall be exclusive of GST, but inclusive of Taxes/Duties/Cess other than GST, if any.

Rates accepted by MCGM shall hold good till completion of work and no additional individual claim shall be admissible on account of fluctuations in market rates; increase in taxes / any other levies / tolls etc. except that payment / recovery for overall market situation shall be made as per price Variation.

## ANNEXURE-A (FOR G.S.T.)

### Irrevocable Undertaking

(On Rs. 500/- Stamp Paper)

I Shri/Smt ..... aged ..... years, Indian inhabitant. Proprietor / Partner / Director of M/s. .... resident at ..... do hereby give Irrevocable undertaking as under;

- 1) I say and undertake that as specified in section 171 of CGST Act, 2017, any reduction in rate of tax on supply of goods or services or the benefit of input tax credit shall be mandatorily passed on to MCGM by way of commensurate reduction in prices.
- 2) I further say and undertake that I understand that in case the same is not passed on and is discovered at any later stage, MCGM shall be at liberty to initiate legal action against me for its recovery including, but not limited to, appeal to the screening Committee of the GST Counsel.
- 3) I say that above said Irrevocable undertaking is binding upon me / my partners / company / other directors of the company and also upon my / our legal heirs, assignee, Executor, administrator, etc.
- 4) If I fail to compliance with the provisions of the GST Act, I shall be liable for penalty / punishment or both as per the provisions of GST Act.

Whatever has been stated here in above is true and correct to my / our own knowledge and belief.

Solemnly affirmed at

DEPONANT

This day of

BEFORE ME

Interpreted Explained and Identified by me.

**UNDERTAKING FOR BEST PRICE  
(ON RS 500 STAMP PAPER)**

The Municipal Commissioner,  
Municipal Corporation of Greater Mumbai, Mumbai.

Sir,

Bid No: \_\_\_\_\_

I/We .....

( full name in capital letters , starting with surname ) , the Proprietor / Managing Partner / Managing Director / Holder of the Business/Manufacturer/Authorized Dealer, for the establishment /firm/registered company, named herein below, do hereby state and declare that I/We..... whose names are given herein below in details with the addresses have not filled in this tender under any other name of any other establishment/ Firm or otherwise, nor are we in any way related or concerned with any establishment/ firm or any other person, who have filled in the tender for the above said work.

“I/We .....

( full name in capital letters , starting with surname ) , the Proprietor / Managing Partner / Managing Director / Holder of the Business/Manufacturer/Authorized Dealer, for the establishment /firm/registered company, named herein below, do hereby undertake that we have offered the best prices for the subject Supply work as per the present market rates. **Further we do hereby undertake and commit that we have not offered/supplied the subject product/similar product/system or sub systems in past one year in Maharashtra state for Quality variation Upto -50% or +10% at a price lower than that offered in the present bid to any other outside agencies including Govt./semi Govt. agencies and within the MCGM also.** Further, we have filled in the accompanying tender with full knowledge of the above liabilities and therefore we will not raise any objection or dispute in any manner relating to any action, including forfeiture of deposit and blacklisting, for giving any information which is found to be incorrect and against the instructions and directions given in this behalf in this tender.

I/We further agree and undertake that in the event it is revealed subsequently after the allotment of work / contract to me / us, that any information given by me / us in this tender is false or incorrect, I / We shall compensate the Municipal Corporation of Greater Mumbai for any such losses or

inconvenience caused to the Corporation in any manner and will not resist any claim for such compensation on any ground whatsoever. I / We agree and undertake that I / We shall not claim in such case any amount, by way of damages or compensation for cancellation of the contract given to me / us or any work assigned to me / us or as withdrawn by the Corporation.”

However, in case of price difference, if it is a result of differential tax structures, different Dollar value of Rupee. Differential logistic of transport etc. Considering this aspect, before invoking the penalty, blacklisting, I/We will be given a reasonable opportunity of being heard our case as to why such price variation has been arisen.

In case if the explanation submitted by me/ us is unsatisfactory then action including forfeiture of deposit & blacklisting may be taken against me/us.

Tenderer's Full Name,

Signature and

Address with rubber stamp.

**SECTION 17**

**LATEST BARRICADING**

**CIRCULAR**

# MUNICIPAL CORPORATION OF GREATER MUMBAI

## CIRCULAR

U/No.MGC/F/6342 dated 5.5.2018

Sub.: Revised guidelines regarding barricades being used during the execution of various infrastructure development projects by MCGM in Mumbai.

Various infrastructure development projects are being executed by MCGM for the betterment of citizens of Mumbai. During the course of execution of the projects, it is necessary to provide strong and secured barricading as a safety measure to avoid any mishaps as well as to avoid nuisance to vehicular and pedestrian traffic. Nowadays, the following types of barricades are being used exclusively in MCGM as per the convenience of various departments at different sites.

- a. Water/sand fillable PVC Metro barricades.
- b. RW 7.45 (G.I. sheets of 22 gauge fixed on 3 inch dia. Wooden bullies buried in existing road sufficiently)
2. RW 7.36 (G.I. sheets of 22 gauge fixed on MS Angle post buried in half the depth in drums of 20 litres capacity in 1:3:6 concrete)
  - a. Structural steel barricade for major trenches having depth more than 2.00 meters.

Thus from the above, it can be seen that there is no uniformity in provision of barricades as they are of different size and shape. Further it is also observed that the continuity is not maintained in providing the barricading keeping gaps in between thus endangering the safety of vehicular as well as pedestrian traffic. Also the barricades are not being cleaned, thus further adding to shabbiness. Further Mumbai being the financial capital of India, people from all over the world visit the city daily and to maintain good image of city the following decisions are taken.

3. Only two type of barricades having department wise colour coding are proposed to be used depending upon the nature of work i.e. Minor and Major.

i) Minor works: Barricading made out of 1.5 mm thick MS plate fixed on M.S. angle post/ frame of 65 mm X 65 mm X 6 mm having height of 1.5 m supported on as shown in Annex- I.

ii) Major works: Structural steel barricade made out of 1.50 mm thick M.S. Plate ISMB 250, ISLC 250X50mm and ISA 50mmX50mmX6mm having of size 2.5 m X 2m as shown in Annex-II.

4. The department wise colour coding for the barricading shall be as under:-

5. H.E. & W.S.P. department – Blue

6. Roads, Traffic, Bridges and Coastal Roads department – Yellow

7. S.P. & S.O department – Green

8. S.W.D., Building Maintenance department & for ward works – Red

9. The basic principle behind installing secured and continuous barricading is to ensure the safety of vehicular as well as pedestrian traffic and residents in the nearby vicinity of the project. Due to non-installation of appropriate barricades on sites if any mishap occurs leading to injury or loss of life, then the contractor and contractor's Engineer in-charge will be liable for the consequent action.

10. During the course of execution of project, if it is noticed that the contractor has not provided barricading then a penalty of Rs.1000/- per meter per day will be imposed upon the contractor and will be deducted from the due Bill. This penalty shall be a part of penalty as per tender condition.

11. Details of the work shall be prominently displayed on the central panel of the barricades along-with the Social Slogans as given in Annexure III and the Cycle of the same shall be maintained.

12. The contractor shall provide and install the barricading along with the slogans printed as per the Annexure III, at his own cost and no payment will be made for this, however the contractor shall quote the bid accordingly by considering the cost of barricading.

The condition shall be included in the tender as given below.

“ Barricading shall be provided free of cost as per Circular vide U/No.MGC/F/6342 dated 5.5.2018 and as per Annexure I, II and III of Standard drawings and specifications with slogans and department wise colour codes.” The copy of circular will be attached to the tender as a part of tender document.

This circular will be applicable for the new tenders proposed to be invited from 01.06.2018 and also the corrigendum shall be attached to tenders which are uploaded. However, for the projects wherein the tenders are already invited, the barricading shall be provided strictly as per tender condition. All the details (Annexure I, II & III of Standard drawings and specifications with slogans and department wise colour codes,

sketches and department wise colour coding) are uploaded on MCGM portal.

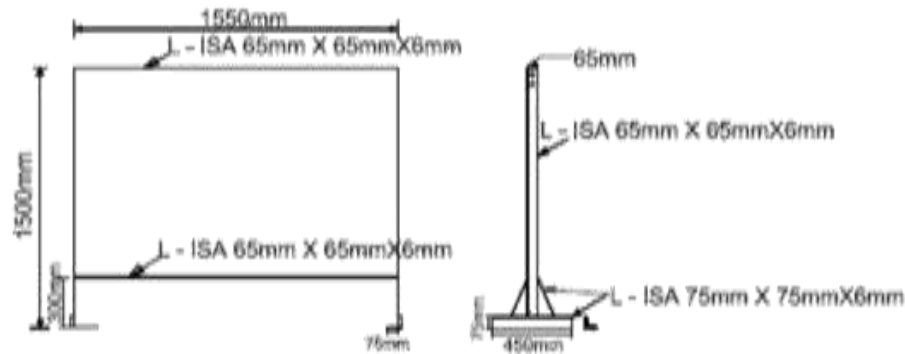
This circular shall come in force with immediate effect.

sd/- 20.4.2018 (Shri V.P . Chithore) <b>Dir.(ES&amp;P)</b>	sd/- 20.4.2018 (Shri R. B. Bambale) <b>D.M.C.(S.E.)</b>
sd/- 21.4.2018 (Shri Vijay Singhal) <b>A.M.C.(E.S.)</b>	sd/- 21.4.2018 (Dr. Shri Sanjay Mukherjee) <b>A.M.C.(P.)</b>
	sd/- 5.5.2018 (Shri Ajoy Mehta) <b>M. C.</b>
sd/- 16.5.2018 (Shri V.P . Chithore) <b>Dir.(ES&amp;P)</b>	sd/- 16.5.2018 (Shri P. R. Kadam) <b>D.M.C.(S.E.)</b>

## ANNEXURE I

### **A) Minor work**

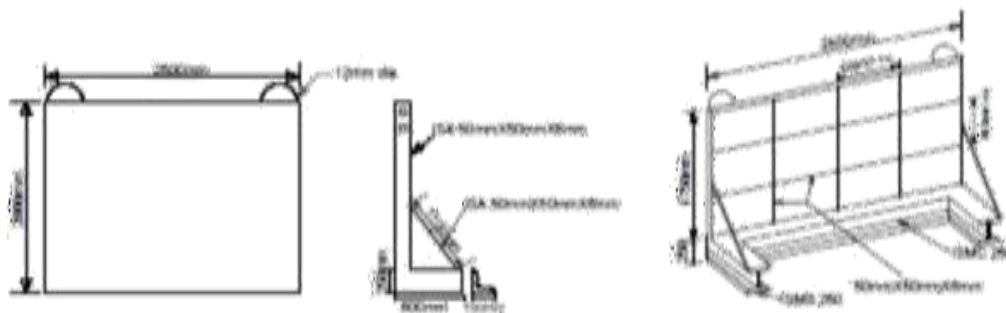
Providing, fabricating and installing the barricading made out of 1.5 m high M.S. Angle post of 65 mm X 65 mm X 6 mm with 1.5 mm thick M.S. Sheet of size 1.55 m X 1.2 m welded to the M.S. angle post/ frames and fixed to 75mm X 75mm X 6 mm angle base as shown in sketch for minor works, displaying of the social slogan as per the Annex - III, daily cleaning of the same to get better appearance and interlocking arrangement to ensure continuity in provision and to avoid gap in between etc complete and as directed by Engineer in-charge.



## ANNEXURE II

### **B) Major works:**

Providing, fabricating and installing the structural steel barricading made out of 1.5 mm thick M.S. plate of size 2500 mm X 2000 mm, ISMC 250 X 30 channels, M.S. Angle ISA 75 X 75 X 6mm and ISMB 250 as per IS 1161 & RHS/SMS rolled angle plates of TATA Steel, Lloyd Steel, SAIL, ESSAR steel approved in straight profile of all sizes, shapes and for all works including stiffeners, bolts and nuts, fillet / butt welding, splicing, machine grinding, of all member, joints wherever required to give neat appearance, and daily cleaning the barricading along with displaying of the Depthwise slogans as given in Annexure -III etc with interlocking arrangement to avoid gap in between and as directed by Engineer in-charge.



## **ANNEXURE III**

### **1) HYDRAULIC ENGINEER'S DEPARTMENT/ WATER SUPPLY PROJECTS**

13. Inconvenience regretted
14. Ensuring Mumbai's water supply
15. Save water Save life

### **2) ROAD, TRAFFIC / BRIDGES DEPARTMENT**

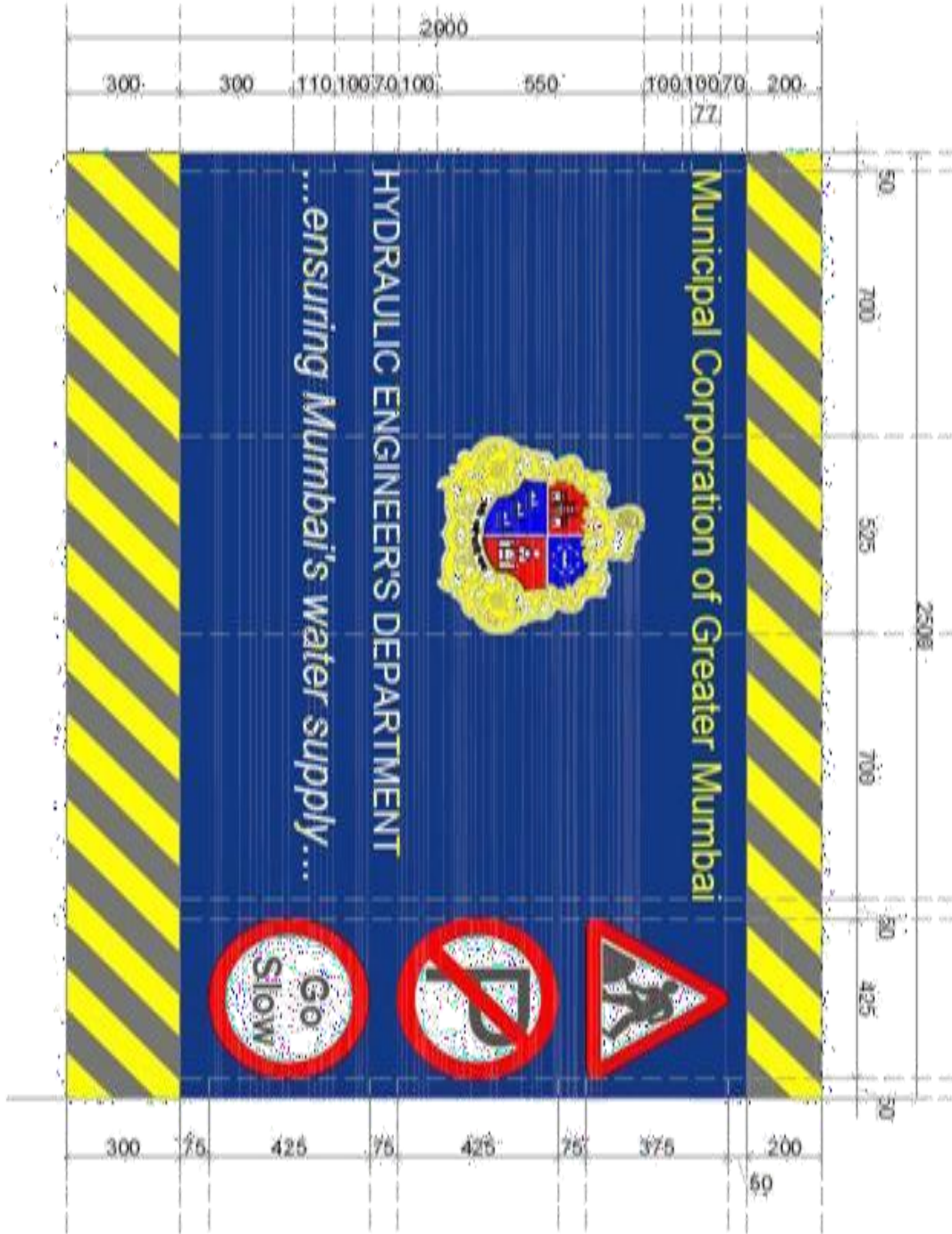
16. Inconvenience regretted
17. Working towards a better tomorrow
18. My Mumbai, Green Mumbai

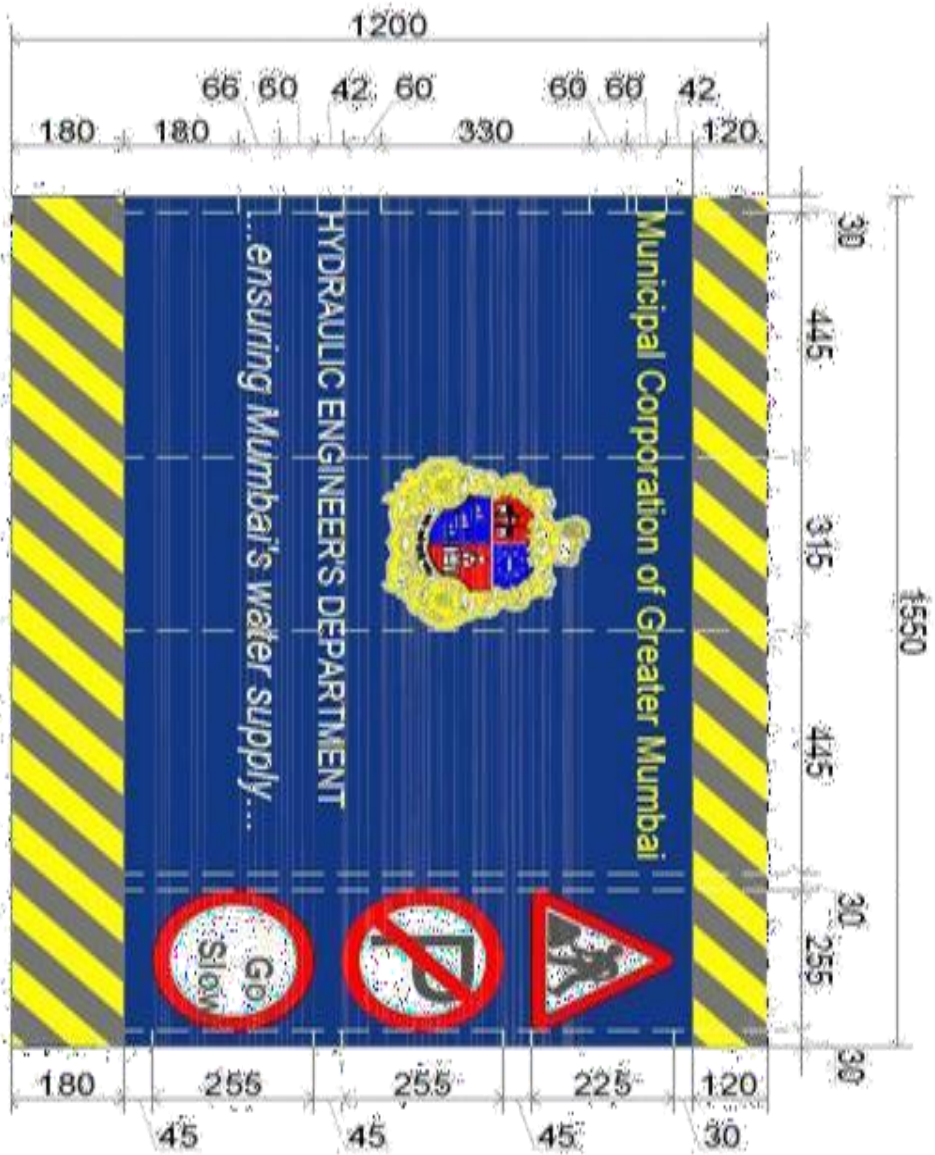
### **19. SEWERAGE PROJECTS DEPARTMENT/ SEWERAGE OPERATIONS DEPARTMENT**

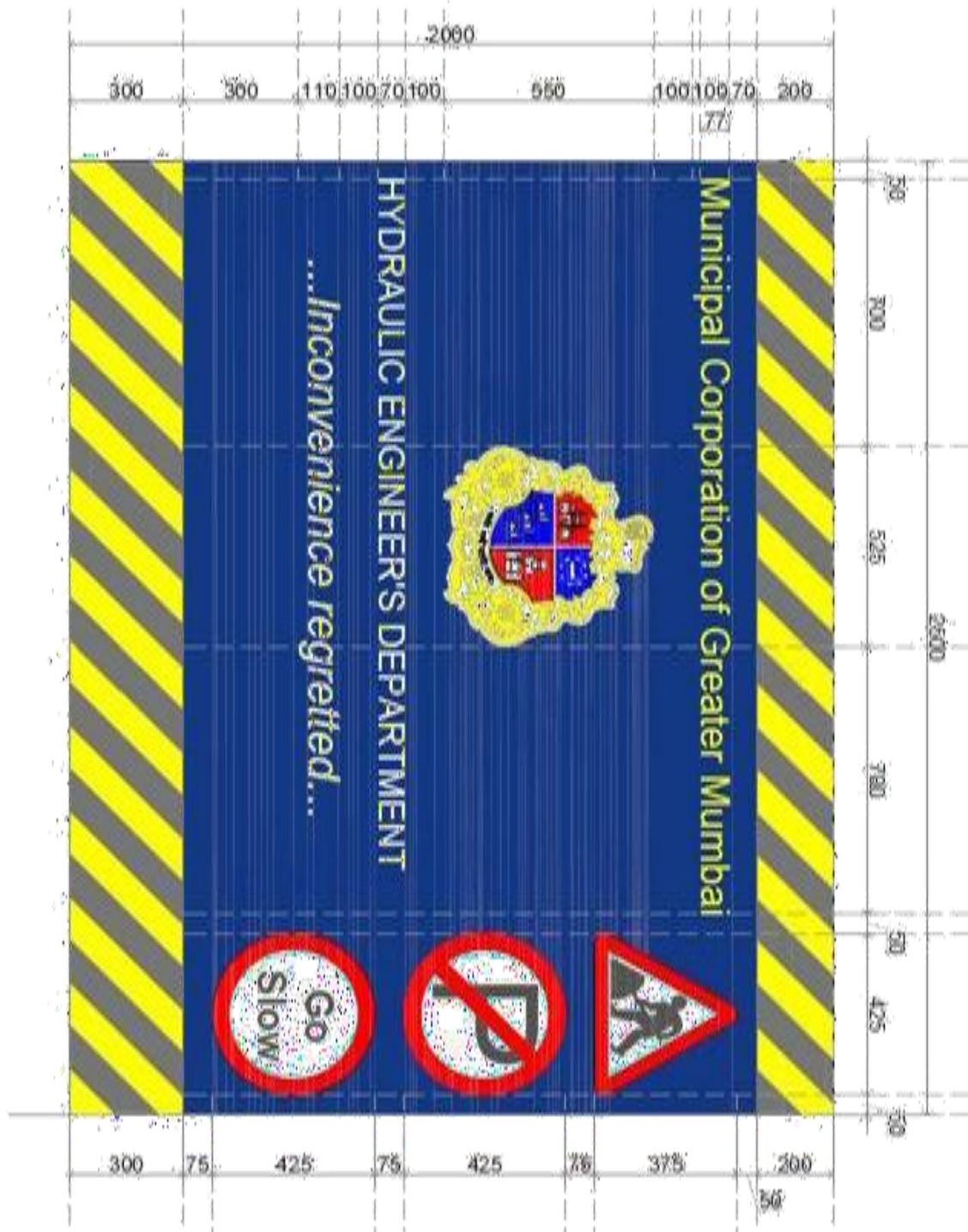
20. Inconvenience regretted
21. Reduce Reuse Recycle
- iv) Clean Mumbai , healthy Mumbai

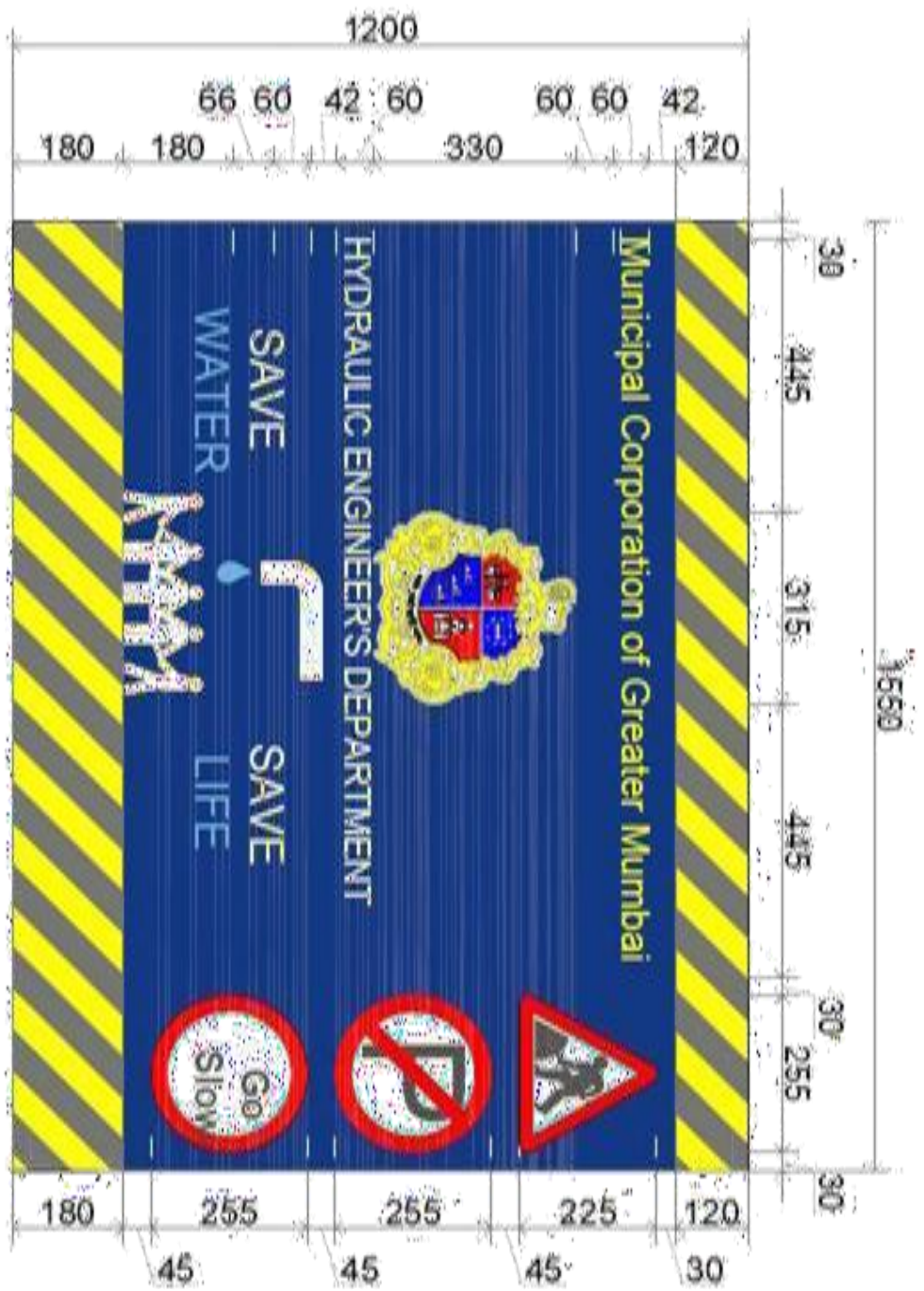
### **4) STORM WATER DRAIN DEPARTMENT/ WARD WORKS**

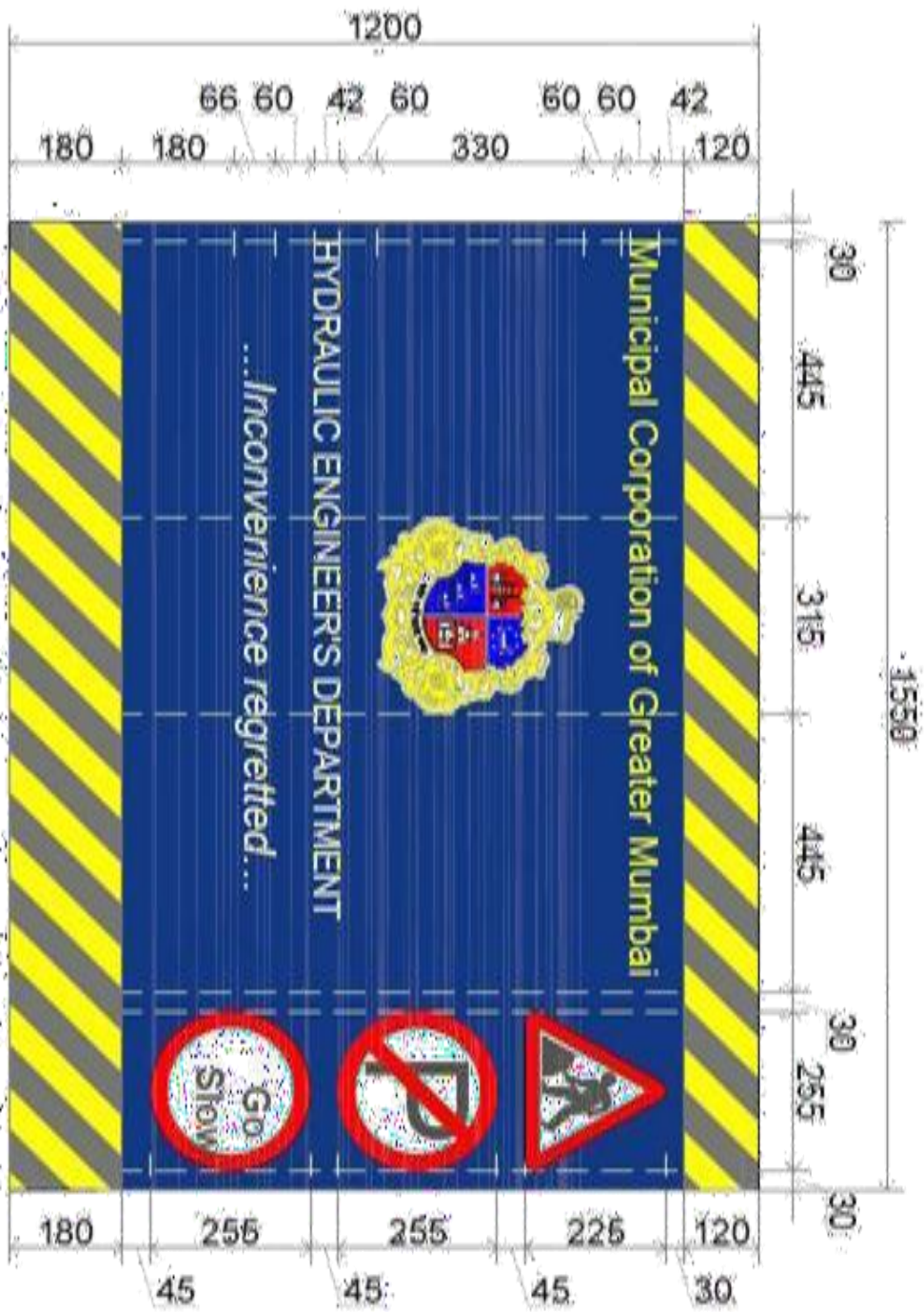
22. Inconvenience regretted
23. Working towards a better tomorrow
24. Swatch Bharat



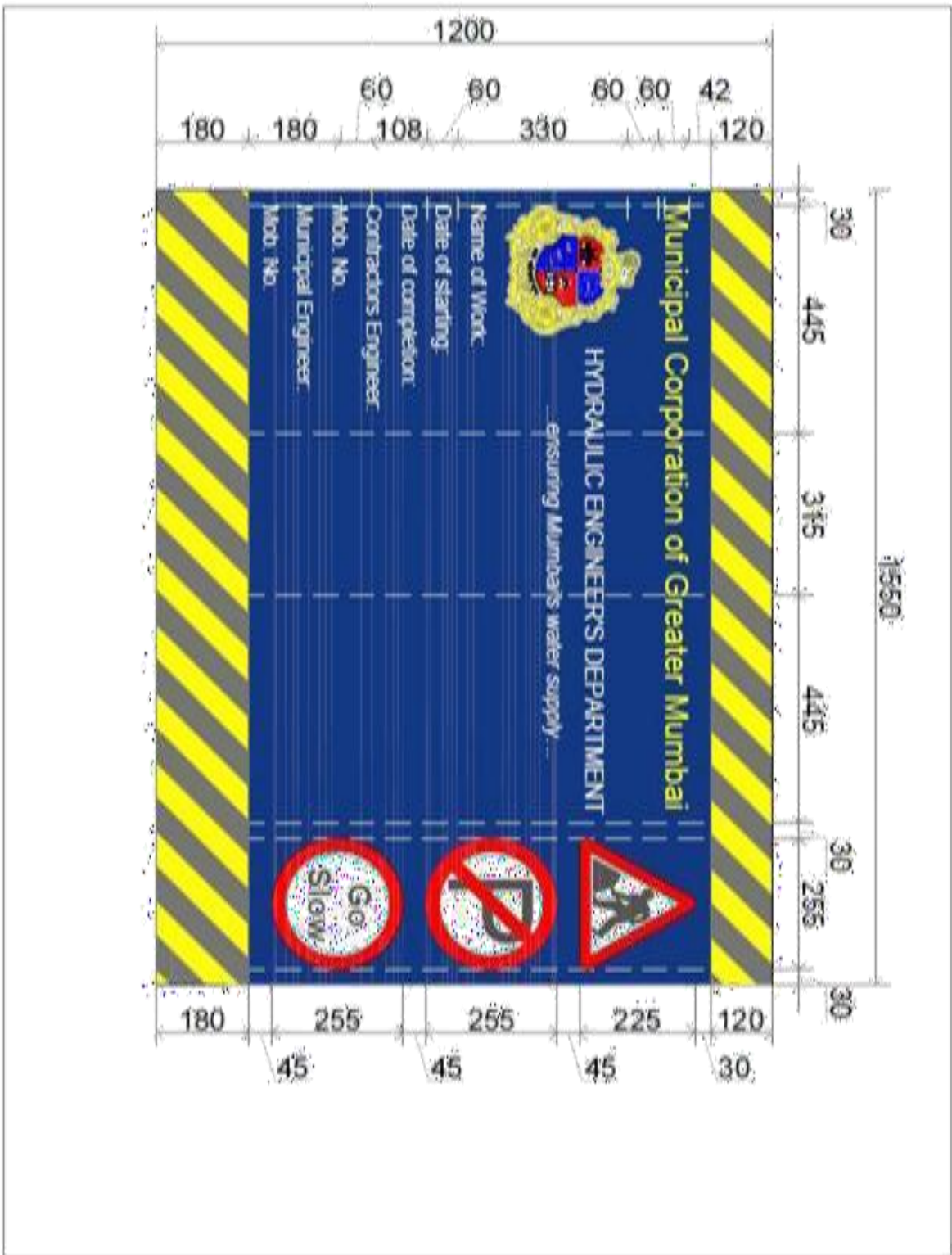












# **SECTION 18**

# **LATEST SWM CIRCULAR**

# Municipal Corporation of Greater Mumbai

No. Dy. Ch. Eng. / S.W.M. / 3957 / Op. dt. 10/9/2018  
28-9-2018

## CIRCULAR

Subject: Implementation of the Construction and Demolition Waste Management Rules, 2016

Reference: i) Hon'ble Supreme Court's order in the Special Leave Petition (civil) No. D 23708/2017, dated 13/03/2018  
ii) Hon'ble M.C. Sir's Approval w/no. MGC/F/7076 dtd. 30.08.2018

The Construction and Demolition Waste Management Rules, 2016 is applicable to 'every waste resulting from construction, re-modelling, repair and demolition of any civil structure of individual or organisation or authority who generates construction and demolition waste such as building materials, debris, rubble'.

Hon'ble Supreme Court vide order dated 13/03/2018, has directed to dispose of construction and demolition waste material by following due procedure in accordance with the provisions of the Construction and Demolition Waste Management Rules, 2016".

In order to put curb on the un-authorisedly dumped waste, it is essential to control it by asking ward Maintenance department or any MCGM department to issue work-permission only after assessing the total estimated quantity of C&D waste likely to be generated out of the repairs / construction / trenching work or any such civil works, and asking them to make payment in advance or in stages of waste generation for the 'Debris on Call' system or transport C&D waste to designated unloading site.

Following standard operating procedure is proposed to be adopted:

- 1) MCGM department like A. E. (Maintenance), A. E. (B&F), H.E., S.O., S.P., M.S.D.P., W.S.P., S.W.D., S.W.M., C.E., B.C., B.M., Roads, Bridges, etc. carrying out civil work / repairs works etc. shall put condition in the tender / quotation / work order to dispose of C&D waste generated either by (i) 'Debris on Call' scheme if generation of C&D waste is less than 300MT for entire project or (ii) contractor shall transport to designated unloading site approved by MCGM S.W.M. department by following due procedure if C&D waste is more than 300MT for entire project.
- 2) The estimated quantity of the C&D waste generated shall be certified by A.E. (Maintenance) Ward or the concerned department.
- 3) If quantity of C&D waste is less than 300MT, A. E. (S.W.M.) Ward will issue Challan for making payment as per 'Debris on call' scheme on approval from Zonal Ex. Eng. (S.W.M.).
- 4) If quantity of C&D waste is more than 300MT, the contractor / agency will submit C&D waste management plan complete with requisite documents to Zonal Ex. Eng. (S.W.M.). On approval, the contractor / citizen / agency carrying out the civil works will be allowed to transport the C&D waste material to the designated unloading site.
- 5) The contractor / citizen / agency carrying out the civil works shall maintain & submit the appropriate record like date, quantity of C&D waste transported, vehicle No., Challan of Receipt of C&D waste from unloading site etc.
- 6) The whole system of issuing NUC for C&D waste transportation and payment will be made ONLINE and for this M/S. Softtech will be asked to develop appropriate software on the basis of existing norms being done for auto-DCR portal.
- 7) The proposals will be processed manually till the complete system fully operational online.
- 8) All the contractors / agencies using designated unloading site must maintain proper record of the C&D waste generated and transported along with date and vehicles through which C&D is transported & the copies of Challans from unloading site for having unloaded the C&D waste and submit the same to A.E. (S.W.M.) ward through concerned department.

Sd/-07/08/2018  
Ch. Eng. (S.W.M.)

Sd/-07/08/2018  
D.M.C. (S.W.M.)

Sd/-10/08/2018  
A.M.C.(E.S.)

Sd/-29/08/2018  
Municipal Commissioner

Forwarded for information and compliance please

  
Dy. Ch. Eng. (S.W.M.) Op.