

### **MUNICIPAL CORPORATION OF GREATER MUMBAI**

<u>e-TENDER</u> (Turn Key Tender)

Bid No.: 7100209042

Name of work:Invitation of e-Tender on Turn-key basis for Design, Engineering,<br/>Supply, Installations, Testing and Commissioning (SITC)<br/>including Civil works and operation and comprehensive service<br/>Maintenance of proposed Upgradation of 63 Bed ICU at ESIS<br/>Hospital, Kandivali, in R/South Ward" by MCGM.

To be displayed by 12.05.2021 hours on 11.00 AM at the MCGM Portal website http://portal.mcgm.gov.in

Website: portal.mcgm.gov.in/tenders

Office of: Chief Engineer (BM+HIC)

Sd/-S.E. HIC WS Sd/ SE (M&E) HIC Sd/ AE (M&E) HIC

Sd/ E.E.(M&E)Covid19 Sd/ Dy.Ch.E.(H.I.C.)

Sd/

Ch.E.(BM+HIC)

**Ch.E.(B.M+HIC)'s office,** 3 rd floor, Engineering Hub

Building, Dr.E. Moses Road, Worli

Naka, Worli, Mumbai 400 018

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# SECTION - 1

## **E-TENDER NOTICE**

#### **MUNICIPAL CORPORATION OF GREATER MUMBAI**

Chief Engineer (Building Maintenance & HIC) ChE/BM/ 2365 /HIC dtd 10.05.2021

#### e-TENDER NOTICE

Subject: Invitation of e-Tender on Turn-key basis for "Design, Engineering, Supply, Installations, Testing and Commissioning (SITC) including Civil works and operation and comprehensive service Maintenance of proposed Upgradation of 63 Bed ICU at ESIS Hospital, Kandivali, in R/South Ward" by MCGM.

The Municipal Corporation of Greater Mumbai (MCGM) invites e-tender to appoint Contractor for the afore mentioned work from contractors of repute, multidisciplinary engineering organizations on turnkey Basis from eminent Partnership Firms /Joint Venture/ Private Limited Companies / Public Limited Companies / Companies registered under the Indian companies' act 1956 & continuing to be registered under companies act 2013.

Bidding Process will comprise of THREE stages.

The application form can be downloaded from MCGM's portal (http://portal.mcgm.gov.in) on payment of **Rs. 9400/- + 2.5% CGST +2.5% SGST**. 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.

- 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 center, TCS, CUSTOMS, MTNL, GNFC ande-MuddhraCA.

Name and location of work	Contract period	EMD (Bid Security desposit)
Invitation of e-Tender on Turn-key basis for Design, Engineering, Supply, Installations, Testing and Commissioning (SITC) including Civil works and operation and comprehensive service Maintenance of proposed Upgradation of 63 Bed ICU at ESIS Hospital, Kandivali, in R/South Ward" by MCGM.	15 days for construction + 06 months of Operation and Maintenance	Rs.9,05,000.00

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**. 9,05,000/- (Nine Lakh Five Thousand only) (the "EMD"), 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.mcgm.gov.in) as mentioned in the Header Data of the tender.

As per THREE Packet systems, the document for Packet A, B and C is to be uploaded

by the bidder in vendors" document online in Packet A, B and C. Packet A, B& C shall be opened on dates as mentioned in header 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 Tender inviting authority. 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 etender(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.mcgm.gov.in)

The Applicants interested for the above referred works may contact the Dy.

Chief Eng. (HIC) at the following address on any working day during office hours.

Office of: Dy. Chief Engr (H.I.C.), MCGM

Engineering Hub Building,

Dr.E.Moses Road, Worli Naka,

Worli, Mumbai- 400 018,

The applicants may wish to visit the site under reference located at **Proposed Upgradation of 63 Bed ICU at ESIS Hospital, Kandivali, in R/South 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.Ch.Eng(H.I.C.)

#### Tender Document Number 7100209042 Municipal Corporation of Greater Name of Organization Mumbai Subject **Invitation of e-Tender on Turn-key** basis for Design, Engineering, Supply, Installations, Testing and Commissioning (SITC) including Civil works and operation and comprehensive service Maintenance of proposed Upgradation of 63 Bed ICU at ESIS Hospital, Kandivali, in R/South Ward" by MCGM. Cost of Tender Rs. 9400/- + 5% GST (2.5% CGST +2.5% SGST) Cost of E-Tender (Estimated Cost) Turn key tender Bid Security Deposit/Earnest Money Rs. 9,05,000 Deposit Date of issue and sale of tender from 11.00 Hours 12.05.2021 18.05.2021 up to 13:00 Hours Last date & time for sale of tender Submission of Packet A,B & C (Online) & Receipt of Bid Security 18.05.2021 up to 15:00 Hours Deposit Opening of Packet - A 19.05.2021 after 12.00 Hours Opening of Packet – B 19.05.2021 after 12.05 Hours Opening of Packet - C 19.05.2021 after 16:00 Hours Address for communication Office of the:-Chief Engineer (BM), 3rd floor, Engineering Hub Building, Dr.E.MosesRoad, Worli Naka, Worli, Mumbai-018 Venue for opening of bid On line in Ch. Engg. (BM)'s office.

### HEADER DATA

#### 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.

# SECTION 2

## ELIGIBILITY CRITERIA

### Technical Capacity (Project Experience):

- 1. The Municipal Corporation of Greater Mumbai (MCGM) invites e-tender on turnkey basis to appoint Contractor for the afore mentioned work from the contractors of repute, multidisciplinary engineering organization on turnkey Basis from eminent partnership firms/joint venture/pvt ltd companies/public limited companies/ companies registered under indian companies act 1956 and continuing to be registered under companies act 2013. However, the contractor not registered in MCGM will have to register with MCGM within three months from receipt of LOA.
- 2. The bidding party should have experience or submit MoU with agency having experience in complete set up of at least 25 ICU/HDU beds during last 3 years.
- 3. Bidder shall submit MOU with agency having experience of similar nature of work as mentioned in the scope of this work.
- 4. Bidder shall have achieved an average annual financial turnover as certified by 'Chartered Accountant' equal to Rs. 9 Cr in last three (3) financial years immediately preceding the Financial Year in which bids are invited.
- 5. Notwithstanding Point 2 and 3 above, the bidding party should have the prior experience, knowledge and expertise in design and set up and must have successfully completed at least one ICU setup or similar type of structure of hospital in the state of Maharashtra.
- 6. The associated electrical , HVAC & MGPS works shall be carried through license holding agency in the respective field having minimum 3 years' experience. Completion certificate to that effect shall be submitted.

#### Equipments Capabilities as required for this work

The successful bidder will 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. The successful bidder will ensure commitment in this respect on an undertaking on to be submitted along with the Bid in Packet B. However, this condition in no way shall dilute the respective condition in Registration Rules of MCGM.

## 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 Corporationof 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 readsor 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 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 incurredor 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 prequalification 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 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**

#### 1. 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 centers 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's the Municipal Corporation of Greater Mumbai (MCGM), hereafter called the "corporation", 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 have other dept. like education, market, fire brigade dept., Octroi and other such departments where quite a good number of staff members are working.

### SECTION 5

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

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

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 asapplicable

(1) In e-tendering process some of the terms and its definitions are to be read as under whereverit 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 contractors should complete the registration process so as to get User ID for E-tendering links. For this, the contractors 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 his 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 R3system 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 linksent to his mail ID.
- III. Online Self Registration (Temporary registration for applicant not registered withMCGM)
  - a. Vendor fills up Self Registration form via accessing MCGM portal.
  - b. Vendor Transfer cell (same as mentioned above) accesses Supplier Registrationsystem 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 contractors will have to pay online Tender fee. The same an be done by accessing Pay Tender Fees option. By this one will be able to pay Tender fee through Payment Gateway-If transaction successful, Contractors 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. Contractors 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 intender.

9. For commercial details (in Packet C) contractors will fill data in Item Data tab in Service Line Item via details and quotes his "Percentage Variation" (i.e.% quoted) figure.(Ifentered "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 submittingthe 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 Timeand Bid Evaluation process starts.

As per Three Packet system, the document for Packet **A & B** are 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 centers in MCGM Ward Offices.

The e-tender is available on MCGM portal, <u>http://portal.mcgm.gov. in</u>, as

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mentioned in the Hea der 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 Dy.Ch Eng.(H.I.C.)

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.mcgm.gov.in).

Due to any unforeseen circumstances if any of the date mentioned in the header data is declared as public holiday, in that case all the dates\* will get shifted by one day or next working day.

## 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/Joint venture/ Public Limited Companies/Companies registered under the Indian companies" act 2013, the contractors/firms dealing in this business and having experience as per eligibility criteria as mentioned in this document.

To be eligible for pre-qualification and short-listing, an Applicant shall fulfill the following conditions of eligibility:

#### **Technical Capacity(Project Experience)**:

- 1. The Municipal Corporation of Greater Mumbai (MCGM) invites e-tender on turnkey basis to appoint Contractor for the afore mentioned work from the contractors of repute, multidisciplinary engineering organization on turnkey Basis from eminent partnership firms/joint venture/pvt ltd companies/public limited companies/ companies registered under indian companies act 1956 and continuing to be registered under companies act 2013. However, the contractor not registered in MCGM will have to register with MCGM within three months from receipt of LOA.
- 2. The bidding party should have experience or submit MoU with agency having experience in complete set up of at least 25 ICU/HDU beds during last 3 years.
- 3. Bidder shall submit MOU with agency having experience of similar nature of work as mentioned in the scope of this work.
- 4. Bidder shall have achieved an average annual financial turnover as certified by 'Chartered Accountant' equal to Rs. 9 Cr in last three (3) financial years immediately preceding the Financial Year in which bids are invited.
- 5. Notwithstanding Point 2 and 3 above, the bidding party should have the prior experience, knowledge and expertise in design and set up and must have successfully completed at least one ICU setup or similar type of structure of hospital in the state of Maharashtra.
- 6. The associated electrical , HVAC & MGPS works shall be carried through license holding agency in the respective field having minimum 3 years' experience. Completion certificate to

that effect shall be submitted.

Equipments Capabilities as required for this work

The successful bidder will 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. The successful bidder will ensure commitment in this respect on an undertaking on to be submitted along with the Bid in Packet B. However, this condition in no way shall dilute the respective condition in Registration Rules of MCGM.

### > <u>TIME PERIOD OF THE PROJECT:</u>

Entire project should be completed and delivered within **15 days for Upgradation and 06 months of Operation and comprehensive service Maintenance** (which can be extended for further required period with same rates and terms and conditions with approval of competent authority for bidder shall be binding ) from the date of award of contract that includes 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.

#### 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 towards 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 installments or in the case of abandonment of the work owning 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 unexecuted 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.
- (d) 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 therefor actually performed by him under this contract unless and until the Executive Engineer shall have certified in writingthe 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 ifcontractor 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 withhis 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 consequencesshall 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) Company Registration Certificate.
- b) Valid Bank Solvency Certificate of Minimum Solvency amount of Rs. 1,50,00,000( Rs One crore fifty lakhs only)
- c) A document in support of Registration under CGST, SGST and IGST Registration Certificate in Maharashtra /India. Those not registered in Maharashtra shall submit an undertaking to the effect that if they are successful tenderer, they shall submit CGST, SGST and IGST Registration Certificate in Maharashtra within 15 days of issue of work order, failing which payment for the work executed will not be released.
- 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) Tenderer should download from tender document- ' Form of tender & Appendix-I' fill in the requisite details, sign whenever necessary, scan the same documents, upload& submit.

The bidders shall categorically provide their Email-ID in packet A.

#### NOTE:

- The bidder shall submit necessary documents / registration certificates as permandatory applicable requirement.
- If the tenderer(s) withdraw tender offer during the tender validity period, his entire E.M.D shall be forfeited.
- If it is found that the tenderer has not submitted required documents in Packet "A" then, the shortfalls will be communicated to the tenderer through e-mail only and compliance required to be made within a time period of **two working hours** 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" of Post qualification successfully completed during the last five 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 five 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.
- c) The bidder shall give undertaking on their letter head that it is his/their sole responsibility to arrange the required machineries either owned/on lease or hire basis, atsite before start of the work.
- d) The bidder shall take due cognizance of guidelines issued u/no.CA/F/P/City/19 dtd 15/09/2017, u/no.CA/F/P/City/24 dtd10/10/2017 and CA/F/P/City/28 dtd.10.11.2017 accordingly shall submit irrevocable undertaking in Annexure-A format on Rs.500/- stamp paper enclosed in Draft Tender.
- e) The successful bidder shall submit valid registration certificate under E.S.I.C., Act 1948, if the tenderer 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 Rs. 200 stamp paper as per circular u/no. CA/FRD/I/65 of 30.03.2013.
- f) The successful bidder shall submit valid registration certificate under E.P.F. & M.P., Act 1952, if tenderer 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 Rs. 200 stamp paper as per circular u/no. CA/FRD/I/44 of 04.01.2013.
- g) Bidder shall upload Annexure A,B &C in tender prescribed format.

e)The bidder shall disclose the litigation history in Packet B under the head Details of litigation history.

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, barring, banning, suspension, deregistration and cheating with MCGM, state Govt, Central Govt. Or any authority under state or Central Govt/ Govt organization 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, barring, banning, suspension, deregistration and cheating with MCGM and MCGM is party in the litigation against the company, firm, directors, partners or authorized signatory for

carrying out any work for MCGM by any authority by MCGM and the orders passed

by the competent authority or by any court where MCGM is a party.

### Note:

If it is found that the tenderer has not submitted required documents in Packet "A" & "B" then, the shortfalls will be communicated to the tenderer through e-mail only and compliance required to be made within a time period of two hours otherwise they will be treated as non-responsive.

### <u>PACKET – C</u>

- a. Online tender filled in Turn key. (There is no separate provision to quote in physical form, this is a part in Header Data of online Tendering). For Packet "C" tenderer(s) will fill data in "Item Data Tab" in Service Line Item via Details and quotes his rates against whole project.(It is mandatory)
- b. Bidder shall submit BOQ with quoted rates for individual item in prescribed format in pdf format in packet C folder. .(It is mandatory)
- c. Bidder shall submit detailed item wise rates. .(It is mandatory)

### 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 favor of the authority mentioned in theBid Data Sheet and shall be valid till the validity of the bid.
- The tenderers shall pay the EMD online instead paying the EMD at any of theCFC 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 after successful completion of work.
- The Bid Security/EMD of all bidders except L1 bidder shall be refunded immediately after opening of financial bid.
- 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;

 The cases wherein if the 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 Ausidence" and if three or more cases in 12 months, are reported, shall

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. Company Registration Certificate
- ii. Valid Bank Solvency
- iii. Sales Tax Registration Certificate (GST)
- iv. Certified Copies of PAN documents and photographs of Individuals, owners, etc v.

Partnership Deed and any other documents

- v. Partnership Deed and any other documents
- vi. Undertakings as mentioned in the tender document.
- ii) Non-curable Defect shall mean non-submission of following documents,
- **a.** In-adequate submission of EMD amount.
- **b.** In-adequacy of technical and financial capacity with respect to Eligibilitycriteria as stipulated in the tender.
- c. 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 request 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 withan 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 ofsuch 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 occurs on at least the defect could have been discovered with reasonable diligence, whichever is earlier.
  - Sr. No.Description of workDefect Liability PeriodInvitation of e-Tender on Turn-key basis<br/>for Design, Engineering, Supply,<br/>Installations, Testing and Commissioning<br/>(SITC) including Civil works and<br/>operation and comprehensive service<br/>Maintenance of proposed Upgradation of<br/>63 Bed ICU at ESIS Hospital, Kandivali, in<br/>R/South Ward" by MCGM.Defect Liability Period

• The DLP shall be as below:

➤ 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 LiabilityPeriod", 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 finishthe 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.

### SECURITY DEPOSIT AND PERFOMANCE GUARANTEE

#### A. <u>Security Deposit</u>

The security deposit shall mean and comprise of

- I) EMD and
- II) Retention Money.
- 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. Refund of Security Deposit

#### I. Refund of Contract Deposit

The Contract Deposit (in this case EMD) shall be released after completion and commissioning of work.

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 DLP.

#### B. Legal + Stationary Charges: (As per applicable circular)

Successful tender shall pay the Legal Charges +Stationary charges as per Circular no

CA/FRG/05dtd 24.04.2020

Contract Value					Legal+ Stationery Charges	
upto	Rs.	3,00,000/-	То	Rs.		Rs. 610/-
from	Rs.	3,00,001/-	То	Rs.	20,00,000/-	Rs. 1020/-
from	Rs.	20,00,001/-	То	Rs.	1,00,00,000/-	Rs. 3930/-
from	Rs.	1,00,00,001/-	То	Rs.	Any amount	Rs. 9790/- (Max)

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.

- i. All legal charges and stationary charges in this respect shall be borne and paid by thesuccessful tenderer.
- ii. 1% labour cess will be deducted from the bill as per the circular u/no FRT/12/dtd.21.06.2012.

#### iii. Tax

As per C.A (F)"s circular no: CA/Finance/Projects/City/28 dtd 10.11.2017 for GST:

"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 & Duties. Also the conditions mentioned under circular no. CA/Cash/City /20 dated 05.10.2018 will be applicable

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".

1% labour cess will be deducted from the bill as per the circular u/no FRT/12/ dtd.21.06.2012.

#### **IMPORTANT DIRECTIONS**

1. All the information uploaded shall be supported by the corroborative documents inabsence 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\tenders for "The Manual of Bid Submission for Percentage Rate/Item Rate Tender Document." The detail guidelines for creationand 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 <u>dyche01hic.pd@mcgm.gov.in</u> The subject shall clearly bear the following identification/

title: "Queries/ Request for Additional Information: "Invitation of e-Tender on Turn-key basis for Design, Engineering, Supply, Installations, Testing and Commissioning (SITC) including Civil works and operation and comprehensive service Maintenance of proposed Upgradation of 63 Bed ICU at ESIS Hospital, Kandivali, in R/South Ward" by MCGM. Any changes in mail ID will be intimated on the portal.

**3.** In case of **Equal quotes** of lowest bidders (L1), the allotment of work shall be done by following process

-Sealed Bids with revised quotes in physical format shall be called from the bidders quoting the same rates i.e. L1 and it will be opened in the presence of Ch.E.(B.M+HIC.) and CA's representative, work will be allotted to the lowest bidder.

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

## SECTION 7

# **SCOPE OF WORK**

### SCOPE OF WORK

### <u>Name of work-</u> Invitation of e-Tender on Turn-key basis for Design,

### Engineering, Supply, Installations, Testing and Commissioning (SITC) including Civil works and operation and comprehensive service Maintenance of proposed Upgradation of 63 Bed ICU at ESIS Hospital, Kandivali, in R/South Ward" by MCGM.

Due to Covid-19 pandemic situation, MCGM has undertaken to set up 63 bedded ICU at ESIS Hospital, Kandivali(E), R/South Ward. The hospital is functioning and running the regular medical facilities. It is now proposed to set up 63 bedded ICU on the 6<sup>th</sup> Floor of the building which has existing 10 nos of 6 bedded wards and 1 nos of 3 bedded Isolation Ward.

The existing set up has 1 no of Oxygen and 1no. Vacuum outlets for each bed. The electrical connection for each bed consist of 5A socket and 15A sockets. The ward is provided with regular ducted Chilled Water Air-Conditioning system. The fire detection/suppression system is also provided with smoke detectors, sprinklers, MCP, Fire extinguishers, Hydrant system etc. Nurse call system for communication between patient and medical staff is also available and functioning properly.

It is now proposed to augment the MGPS system as per ICU requirements with additional 1 no of Oxygen outlet and 1 no of Vacuum outlet. The separate pipeline for the additional outlet shall be connected from the common header of Oxygen manifold system & LMO tank to avoid the issues of pressure drop in the system. The separate Vacuum pipeline shall be installed from the Vacuum plant.

Medical Air(MA4) outlets & pipelines to be installed to fulfill the requirements of ICU. Currently, the Hospital is having facilities of Vacuum plant and Medical Air plant.

The existing Air-conditioning system is conventional type with supply and return air ducting. In order to setup Covid-19 ICU and to bring down the viral load, it is proposed to modify the existing ducting to accommodate UVGI system in the existing ducts.

Accordingly, the scope of work includes:

#### Part A: Civil Works:

- 1. LMO tank fencing work
- 2. Curtains
- 3. Existing damaged False Ceiling works
  - **Electrical Works:**
- 1. Point wiring
- 2. CCTV ,Data & Voice connectivity
- 3. UPS
- 4. Operation & CSMC of all the services provided at ICU (MEP)

### MGPS work:

- 1. Medical Gas Pipe Line Works for Oxygen, Vacuum and Medical Air
- 2. Manifold Work for Liquid Oxygen Dura Cylinders
- 3. Connectivity between 13kL LMO tank to Manifold Room

### Part B:

Medical Equipments: AS per the reference BoQ

### SECTION 8

## SPECIAL DIRECTIONS TO THE BIDDER

#### SPECIAL DIRECTIONS TO THE TENDERER

Following condition are proposed to be incorporated in draft tender under clause special direction to bidder

- Successful bidder to submit Electrical Safety Certificate from the agency having PWD license after erection of the facility and before handing over of the facility to MCGM.
- II. The BOQ framed is indicative for completing the respective part of the work. As such any other works specified other than BOQ but required for successful completion of the work shall be carried out by the successful bidder at no extra cost. As such bidder shall design their own scheme and quote accordingly all the necessary work required.
- III. Once the successful bidder is defined, he should submit his design and scheme for the approval of Ch.E.(BM+HIC) before processing for actual work.
- IV. After approval of design and layouts, the successful bidder shall approach Mumbai Fire brigade deptt for obtaining their remarks on the layouts. If any suggestions are given by MFB on the layouts the same shall be executed by the successful bidder at no extra cost.
- V. After completion of the MGPS and, the successful bidder shall get the entire work certified from a third party agency recognised by PESO. All the fees on this part shall be paid by successful bidder.
- VI. After completion of the work, the successful bidder shall get the entire work certified from CFO and obtain their NOC for the entire Work.
- VII. This being a critical emergency service the successful bidder shall have to deploy expertise manpower in respective field for Operation & comprehensive service, maintenance of the Electrical & MGPS system installed, on round the clock basis. This Operation & CSMC should include manpower/ material/ spares/ consumables/fuel/tools and tackles etc. Record of such Operation & CSMC works shall be maintained, got acknowledged from user dept. and submitted along with monthly bills
- VIII. The material supplied should be of the specification as mentioned in BOQ, 35

failing which the items will not be accepted and returned to contractor at his own cost. The contractor shall replace such material at his own cost as per specifications.

- IX. As and when notified by the MCGM, contractor shall dismantle and remove all material used for the set up and handover peaceful vacant possessions of work site to MCGM at his own cost.
- X. If the facility required to be extended beyond six months , Operation & CSMC as well as rental services will be extended beyond 6 months at the same rates & terms & conditions of this tender for which the successful bidder must be binding.
- XI. Bidder shall submit BOQ with quoted rates for individual items as per the prescribed format in tender in packet C folder.(It is Mandatory)
- XII. As regards mode of payment, the quantities will be measured jointly by contractors & MCGM Engineering staff on actual basis & accounted for payments.

# SECTION 09

# **GENERAL CONDITIONS OF CONTRACT**

# **General Conditions of Contract**

A. General

1. Definitions

Terms which are defined in the Contract Data are not also defined in the Conditions of Contractbut 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.

• <u>In the case of item rate contracts, the cost of the work arrived at after</u> <u>finalisation of the quantities shown in schedule of items / quantities by the item rates</u> <u>quoted by the tenderers for various items and summation of the extended cost of</u> <u>each item.</u>

• 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 LiabilityPeriod 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 in direct 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 competed 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 or 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 anyof 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

2. 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.

3. 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.

4. Delegation

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.

5. 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. 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. 7. 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.

# 8. 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.

9. Employer's and Contractor's Risks

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.

10. Employer's Risks

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.

11. Contractor's Risks

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. 12. 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.

13. Site Investigation Reports

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.

14. Queries about the Contract Data

The Engineer will clarify queries on the Contract Data.

15. 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 maybe specified by notification by the Central Government.

16. The Works and Routine Maintenance to be completed by the Intended Completion Date The Contractor may commence execution of the Works on the Start Date and shall carry outthe Works and Routine Maintenance, if specified in the tender, in accordance with theProgramme submitted by the Contractor, as updated with the approval of the Engineer, and complete them by the Intended Completion Date.

17. 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.

# 18. 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:-

Have adequate safety supervision in place to ensure that safety programs set up by thefirms/agencies are in compliance with prevalent laws and regulations.

Review safety programs developed by each of the trade firms, prepare and submit a comprehensive safety program.

Monitor day to day implementation of safety

procedures.First Aid Facilities: -

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 contractlabour or part thereof ordinarily employed.

The first-aid box shall be distinctly marked with a red cross on white back ground.

Adequate arrangements shall be made for immediate recoupment of the equipment when necessary.

Nothing except the prescribed contents shall be kept in the First-aid box.

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.

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.

19. Discoveries

Anything of historical or other interest or of significant value unexpectedly discovered on theSite 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.

20. Possession of the Site

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.

21. Access to the Site

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.

22. 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.

22.3 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 therebyto 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

# 23. Programme

Within the time stated in the Contract Data, the Contractor shall submit to the Engineerfor 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.

24. 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 soonas 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 draftender.

(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 theessence 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.

#### 25. Delays Ordered by the Engineer

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

26. 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 therecord 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 presesnt

All works under or in course of execution or executed in pursuance of the contract shallat 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, duringthe usual working hours and at all other times at which reasonable notice of the intention of the Eng-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 incharge 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 Eng-In-Charge or his subordinate incharge of the work, and if any work shallbe covered up or placed beyond the reach of measurement, without such notice having beengiven 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, technical establishment.

The Engineer-in-charge will reserve right to inspect at any stage and reject the concrete if he isnot 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 batchmixing 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 contactor 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 workthat 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 equipments 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 preformed 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 shallbe borne by the contractor even if the result of the sample confirm or do not confirm to the relevant BIS code specifications.

All expenditure required to be incurred for taking the samples conveyance, packing shall be borne by the contactor himself.

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 –

Set of Sieves as per I.R.C. /I.S.

Compressive Testing Machine(For new

works)Oven, Electrically Operated

Weighing Balance (20 kg

capacity)3 m straight edge

Sieve shaker

First Aid Box

Measuring Jar (for silt content)

Other Machines/apparatus as may be directed by the

EngineerVernier Caliber

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 shallbe 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.

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 considers 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 shallcarry 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 anupdated 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 takeor 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 theBill of Quantities completed.

(e) The value of work executed shall also include the valuation of Variations and CompensationEvents.

(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 hasor 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 unskillful 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. GST

G.S.T and other state levies/cess which are not subsumed under GST will be applicable. The renderer 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 renderers falls under Reverse Charge Mechanism, the prize 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 madeas per prize variation.

### 39. Currencies

All payments will be made in Indian Rupees. 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 StartDate and the end of the Defects Correction periods shall be remedied by the Contractor at his cost if the loss or damage arises from the Contractor's acts or omissions.

# E. 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

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

The contractor have to submit the bill for the work carried out within 15 days from the date of 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	Equal to 5% of bill amount
completion/running bill upto certain	
date, upto	
next 15 days i.e. upto 30 days	
Next 15 days upto 45 days from the date of	Equal to 10% of bill amount
completion/running bill upto specified date	-
If not submitted witin 45 days from the date of	Bill will not be admitted
completion/ R.A. bill	forpayment.

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 determinedby 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.

### 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 maybe 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.

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

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

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

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 any way liable for such costs, regardless of the conduct or outcome of the Bidding Process.

Acknowledgment by Applicant

It shall be deemed that by submitting the Application, the Applicant

has:made a complete and careful examination of the tender;

received all relevant information requested from the Authority;

accepted the risk of inadequacy, error or mistake in the information provided in the tender orfurnished by or on behalf of the Authority relating to any of the matters referred; and 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 informationor data given by the Authority.

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:at any time, a material misrepresentation is made or

uncovered, or

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 prequalification 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.

. The bid shall be rejected if the bidder-Stipulates the validity period less than 180 days. Stipulates own condition/conditions.

Does not fill and (digital) sign undertaking forms, which are incorporated, in the document.

# 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 Endeavor 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 Endeavor 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 readas 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.

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 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.

# 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

# 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.

# 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.

# 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 divulgeany such information unless it is directed to do so by any statutory entity that has the powerunder 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.

# 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.

Inspection of site and sufficiency of tender:

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 necessaryfor 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.

The Employer may make available to the Contractor data on hydrological and subsurface 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.

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.

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 costings shall be got approved by the competent authority as governed vide rules prevailing with authority.

Office for the Engineer (Works costing upto 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.

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, asclose 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 upkeepof 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 equipments 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. Also, for staff working beyond working hours the contractor has to provide conveyance.

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 fulfill requirements of Environmental Authorities. The location of such office shall be finalized and got approved from the Engineer before erection/commencement work.

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.

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

#### Subsequent Legislation:

If on the day of submission of bids for the contract, there occur changes to any National orState stature, 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 totake decision in respect of addition/reduction of cost in contract.

# 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.

### 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 Eng-in-change 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 maybe 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 partof the Municipal Corporation of Greater Bombay or its Engineer or Officers in making periodical or final payments or in any other respect whatever.

### 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 doso 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. Arbitration and Jurisdiction:

If the Commissioner fails to give notice of the decision as aforesaid within a period of 90 days after being requested as aforesaid, or if the Contractor is dissatisfied with any such decision, then 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.

In case of a contract where the contract price and/or contract value is less than Rs. 5,00,00,000/- (Rs. Five Crore only), any dispute arising out of or in connection with this contract, including any question regarding its existence, validity or termination, shall be referred to a mutually agreed arbitral tribunal in accordance with the arbitration and conciliation act, 1996 (Amended up to date ). The arbitral tribunal shall consist of a

sole arbitrator, as mutually agreed upon by the parties and the said dispute shall be finally resolved by the said arbitral tribunal. The decision of the arbitral tribunal shall be in writing (with reasons) and which will be final and binding upon the parties hereto and the expenses of the arbitration shall be paid as may be determined by the arbitral tribunal. The seat of the arbitration shall be Mumbai. The venue of arbitration shall be within the limits of the Brihan Mumbai. The language of the arbitration shall be English.

If the parties fail to appoint mutually agreed arbitral tribunal, with in the period of 30days from the date of application seeking arbitration in the dispute, the arbitral tribunal shall be appointed by the recognized arbitral institution i.e. Mumbai center for International Arbitration (Approved by Government of Maharashtra under G.R. No. ARB/Case No.1/2017/D-19 dated 28.02.2017) as per the arbitration rules of the Mumbai center for International Arbitration thenin force ("MCIA Rules").

In case of contract where the contract price and/or Contract Value is Rs.5,00,00,000/- (s. Five Crore only) or more, any dispute arising out of or in connection with such a contract, including any question regarding its existence, validity or termination, shall be directly referred to and finally resolved by the recognized arbitral institution i.e. Mumbai center for International Arbitration (Approved by Government of Maharashtra under G.R. No. ARB/Case No.1/2017/D-19 dated 28.02.2017) as per the arbitration rules of the Mumbai center for International Arbitration then in force ("MCIA Rules"). The arbitral tribunal shall consist of a sole arbitrator. The seat of the arbitration shall be Mumbai. The language of the arbitration shall be English.

In either case, the law governing this arbitration agreement and the contract shall be Indian Law.

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 wholeworks.

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 byany 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. 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 Applicationor any information provided along therewith. 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.

Price Variation Clause

The Contractor shall be reimbursed or shall refund to the Corporation as he 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 haveno 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 of 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 cor	nponent:	
VL = (0.88 R)	x 30 x	( I – IO)
	100	IO
b) Formula for Material co	omponent :	
VM =(0.88 R	8 x 70 - C)	x (W – WO)
	100	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 dateof 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 excessin respect of item upto 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 separatelyand reimbursement will be made to (when the result is plus) and refund will 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.

The decision of the Engineer as regards the operative period of the contract shall be final and binding on the contractors.

iii) Where there is no supply of controlled items to contractor the component 'C' shall be taken as zero.

C) 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 favorable 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 Clause10 (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

Above12 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 inabove.

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

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 clause8(l)(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(l)(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(l)(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 payableas 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 :

Interim bills shall be submitted by the Contractor from time to time (but at an interval of notless than one month) for the works executed. The Engineer shall arrange to have the bill sverified by taking or causing to be taken, where necessary, the requisite measurement of work. Payment on account for amount admissible shall be made on the Engineer certifying the sum towhich the Contractor is considered entitled by way of interim payment for all the workexecuted, after deducting there from the amount already paid, the security deposit / retentionmoney and such other amounts as may be deductible or recoverable in terms of the contract.

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.

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 thenetwork and shall be released only on attainment of the said milestone.

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- Joint Venture is Allowed for this work.

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 thereof.

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 create 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.

*c.* 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.), atleast 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 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 valueof all deviations ordered:

• Completion period for projects (originally stipulated or as extended) not exceeding 6months :to the extent of maximum 1 percent per week.

• Completion period for projects (originally stipulated or as extended) exceeding 6months and not exceeding 2 years: to the extent of maximum <sup>1</sup>/<sub>2</sub> percent per week.

Completion period for projects (originally stipulated or as extended) exceeding 2 years

:to the extent of maximum <sup>1</sup>/<sub>4</sub> 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: 10percent.

ii) Completion period (as originally stipulated or as extended) exceeding 6 months and notexceeding 2 years :7½ percent.

iii) Completion period (as originally stipulated or as extended) exceeding 2
years : 5

percent.

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

85. ActionAnd 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-incharge, 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 unskillful 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 orhe 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 befinal and binding on the contractor.

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

The above clause is summarized to make it easy to understand as follows:

The Engineer-in-charge shall issue notice to the contractor for rectifying the defects or redoing of the work if necessary, within specific time to achieve the desired quality and quantity of the work and this should be governed by clause 8.f and 9.b of Standard General Conditions of Contract.

If the contractor fails to comply the same, only then, the contractor shall be liable to pay compensation at the same rate as under clause 8.e of the Standard General Condition of Contract (for Compensation for delay) for this default.

If the penalization amount exceeds the maximum limit, then the contractor will be liable forbeing banned/ deregistered from business dealings with MCGM and this shall be governed by relative provision in Registration Rules of MCGM and Standard General Conditions of Contract.

This penalization shall be levied only on account of delay in work, unsound, imperfect or unskillful 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 quality inferior to that contracted for or otherwise not in accordance with the contract.

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, ifhe 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 and stores 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 partas 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 befinal 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 continuousperiod 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 giving10 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 deem 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 paymentof 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 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 fromnon 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 anymoney due to the contractor underthe 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 bepaid 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 inall cases when destroying cut or dug up trees brushwood, grass, etc., by fire, the contractorshall 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. Chief 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 Incharge.

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 suchexpenses 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 equipments so provided by the contractor and the contractor shall take adequate steps to ensure the proper use of equipments by those concerned.

(iv) When the work is carried on in proximity to any place where there is risk or drawing all necessary equipments 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 mosquitogenic 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.

96. INTERVAL GRIEVANCE REDRESSAL MECHANISM

M.C.G,M. has formed a Internal Grievance Redressal Mechanism for redressal of bidder's grievances. Any Bidder or prospective Bidder aggrieved by any decision, action or omission of the procuring entity being contrary to the provisions of the tender or any rules or guidelines issued therein, in Packet 'A', 'B' & 'C' can make an application for review of decision of responsiveness in Packet 'A', 'B' & 'C' within a period of 7 days or any such other period, asmay be specified in the Bid document.

While making such an application to procuring entity for review, aggrieved bidders or prospective bidders shall clearly specify the ground or grounds In respect of which he feels aggrieved.

Provided that after declaration of a bidder as a successful in Packet 'A' (General Requirements), an application for review may be filed only by a bidder who has participated in procurement proceedings and after declaration of successful bidder in Packet 'B' (Technical Bid), an application for review may be filed only by successful bidders of Packet 'A'. Provided further that, an application for review of the financial bid can be submitted, by the bidder whose technical bid is found to be acceptable / responsive.

Upon receipt of such application for review, M.C.G.M. may decide whether the bid process is required to be suspended pending disposal of such review. The M.C.G.M. after examining the application and the documents available to him, give such reliefs, as may be considered appropriate and communicate its decision to the Applicant and it required to other bidders or prospective bidders, as the case may be.

M.C.G.M. shall deal and dispose off such application as expeditiously as possible and in any case within 10 days from the date of receipt of such application or such other period as may be specified in pre-qualification document, bidder registration document or bid documents, as the case may be.

Where M.C.G.M. fails to dispose off the application within the specified period or if the bidder or prospective bidder feels aggrieved by the decision of the procuring entity, such

bidder or prospective bidder may file an application for redressal before the 'Internal Procurement Redressal Committee' within 7 days of the expiry of the allowed time or of the date of receipt of the decision, as the case may be. Every such application for internal redressal before Redressal Committee shall be accompanied by fee of Rs.25,000/- and fee shall be paid in theform of D.D. in favour of M.C.G.M.

1st Appeal by the bidder against the decision of C.E./HoD/Dean can be made to concerned

D.M.C /Director who should decide appeal in 7 days.

If not satisfied, 2nd Appeal by the bidder can be made to concerned A.M.C for decision.

Grievance Redressal Committee (GRC) is headed by concerned D.M.C / Director of particular department for the first appeal / grievances by the bidder against the decision for responsiveness / non-responsiveness in Packet 'A', Packet 'B' or Packet 'C', and If not satisfied, concerned A.M.C. will take decision as per second appeal made by the bidder,

This Grievance Redressal Committee (GRC) will be operated through DMC(CPD) office where appeals of aggrieved bidder will be received with fee of Rs. 25,000/- from aggrieved bidder. The necessary correspondence in respect of said applications to the aggrieved bidder & concerned department, issuing notices, arranging of Grievance Redressal Committee (GRC) with D.M.C and further proceeding will be carried out through registrar appointed by MCGM.

No application shall be maintainable before the redressal Committee in regard of any decision of the M.C.G.M. relating to following issues:

Determination of need of procurement The decision of whether or not to enter into negotiations. Cancellation of a procurement process for certain reasons.

On receipt of recommendation of the Committee, It will be communicated his decision thereon to the Applicant within 10 days or such further time not exceeding 20 days, as may be considered necessary from the date of receipt of the recommendation and in case of non-acceptance of any recommendation, the reason of such non-acceptance shall also be ...

Additional Municipal Commissioner and/or Grievance Redressal Committee, if found, come to the conclusion that any such complaint or review Is of vexatious, frivolous or malicious nature and submitted with the Intention of delaying or defeating any procurement or causing loss to the procuring entity or any other bidder, then such complainant shall be punished with fine, which may extend to Five Lac rupees or two percent of the value of the procurement, whichever Is higher.

# SECTION 10

# **SPECIFICATIONS & SELECTION OF**

# MATERIAL

#### SPECIFICATIONS & SELECTION OF MATERIAL

The tender is prepared on the basis of BOQ submitted by Consultants and Standard General Conditions of Contract for construction Works 2016. The Amendments in MCGM's Tender Conditions, Standard Bid Document (SBD) and Standard General Conditions for Contract (Circular No.MDD/7878dt 27/09/2016) is available on MCGM portal <u>http://portal.mcgm.gov.in</u> under link The <u>Circular of Tender Reforms</u>. 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 whenever the type or source of any material changes.
- 3. The contractor shall check each fresh consignment of materials as it isbrought 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.

Note: Particularly in this project, the items included in BOQ are Non-SORitems.

Note: Under any circumstances the system shall not go under breakdown during CSMC & operation period. If it goes under breakdown for more than 30 minutes a penalty of Rs.10,000/- per hour will be im-posed upon which will be deducted from the monthly CSMC bill.

# 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 hereinafterrespectively 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 relavant 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 person"s participation or action in the Bidding Process;
- D. "undesirable practice" means (i) establishing contact with any person connected withor 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) havinga 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 animproper 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 Financer's inspection and audit rightsprovided.

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

## 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.

S.B.I and its subsidiary Banks
State Bank Of India.
State Bank Of Bikaner & Jaipur.
State Bank Of Hyderabad.
State Bank Of Mysore.
State Bank OfPatiyala.
State Bank Of Saurashtra.
State Bank OfTravankore.
Nationalized Banks
Allahabad Bank.
Andhra Bank.
Bank Of Baroda.
Bank Of India.
Bank Of Maharashtra.
Central Bank Of India.

#### List of approved Banks: -

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

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

65	Mahanagar Co-op Bank Ltd.
66	Citizen Bank Ltd.
67	Yes Bank Ltd.
Е	Foreign Banks
68	ABM AMRO (N.Y.) Bank.
69	American Express Bank Ltd.
70	ANZ Grindlays Bank Ltd.
71	Bank Of America N.T. & S.A.
72	Bank Of Tokyo Ltd.
73	Bankindosuez.
74	BanqueNationale de Paris.
75	Barclays bank.
76	City Bank N.A.
77	Hongkong& Shanghai banking Corporation.
78	Mitsui Taiyokbe Bank Ltd.
79	Standard Chartered Bank.
80	Cho Hung Bank.

**Note:** For detailed approved list of banks refer circular u/no. CA/FBK/291 Dated 27/11/2019

# SECTION -13

# APPENDIX

#### FORM OF TENDER

To,

The Municipal Commissioner for Greater MumbaiSir,

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

	lotice inviting tender. ii. Directions
	lerers (General and special)
111.	General condition of contract for Electrical 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/W	e
	(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
1D I	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 byme/ us" (strike out the portions which are not applicable).
	/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."
i i	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.
	/We have deposited the amount through online payment gateways with the C.E. of heCorporation 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 before the date of communication to me/us of such notice of non/acceptance, which date shall be notlater 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 pal Corporation Act, not to accept this tender. (Subject to condition 5 below 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 when called upon to do so.
- c. I/we do not commence the work on or before the date specified by the Engineer 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 BombayIron and Steel Labour Board" and fulfill all the obligatory provisions of Maharashtra Mathadi, 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 objectionor 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 corporation,"

Address

Yours faithfully,

...... Digital Signature of the Tenderer or the Firm

1.....

2	
3	
4	
5	
	me and private residential ofall the partners constituting n A/c No.
1.	Name of Bank
2.	
3	Name of Branch
4.	
5	VenderNo.

#### **AGREEMENT FORM**

AGAL	
Tender / Quotation	dated20
Standing Committee/Education Comm	ittee Resolution No.
CONTRACT FOR THE WORKS	
This agreement made this day of	
Two	
thousand	
Between	
inhabitants of Mumbai, carrying on bu	siness at
 in Bombay under the style and name of	f Messrs
(Hereinafter called "the contractor	of the one part and Shri
are included unless the inclusion thereof, his successor or successors (E,S.& P)of the second part and the (hereinafter called "the Corporation has tendered for the construction	
respectively assigned to them in t	pressions shall have the same meanings as are he General Conditions of Contract for works wing documents shall be deemed to form and be s 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 styleof

Full Name Address

2.

Contractors

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

Ex.....City/ WS/ ES

1. 1.

And in the presence of the Municipal Secretary

Municipal Secretary

2.

#### ANNEXURE " A "

Name of work: Invitation of e-Tender on Turn-key basis for Design, Engineering, Supply, Installations, Testing and Commissioning (SITC) including Civil works and including Civil works and operation and comprehensive service Maintenance of proposed Upgradation of 63 Bed ICU at ESIS Hospital, Kandivali, in R/South Ward" by MCGM.

- 1. The Engineer for this work: Che.Eng. (BM & HIC) / Dy.Ch.Eng.(H.I.C.)
- 2. Estimated cost of Tender: : Turnkey Project

Sr No Description of work Total Amount

- 1 Civil Work = NA
- 2 Electrical Work = NA
- 3 HVAC Work = NA
- 4 MGPS Work = NA
- 5 Medical Equipments = NA
- **3.** Earnest Money = Rs.9,05,000.00
- **4.** Time Period
  - 1 Contract as a whole Period completion 15 **Days for completion and 6 months operation and maintenance.**
  - 2 Part or Groups of items i) i) ii) ii) iii) iii)
- 5 Percentage to be charged as supervision charges for the work got executed through other means 10% 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 program 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.
- 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.
- 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

For the purposes of this Clause 9, the following terms shall have the meaning herein after respectively assigned to them:

1. "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 ;

1. "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;

2. "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

3. "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 undertake

as 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 nochange 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 penalaction such as banning(for specific time or permanent)/de-registration or any other actionunder the law by any Government and/or Semi Government and/or Governmentundertaking.

3. I declare that I have perused and examined the tender document including addendum, condition of contract, specifications, drawings, bill of quantity etc. formingpart of tender and accordingly, I submit my offer to execute the work as per tenderdocuments 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

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## Format for Submitting BOQ with rates in Folder "C"

## Table 1- For individual items.

Sr. No	Description of Item	Quantity	Unit	Rate	Amount
1					
<u>2</u>					
<u>3</u>					
			<u>Total A</u>	<u>nount</u>	

Note: Please refer reference BoQ. To be uploaded in Folder "C"

### Table 2- for Summary

**Sub:** Invitation of e-Tender on Turn-key basis for Design, Engineering, Supply, Installations, Testing and Commissioning (SITC) including Civil works and operation and comprehensive service Maintenance of proposed Upgradation of 63 Bed ICU at ESIS Hospital, Kandivali, in R/South Ward" by MCGM

sr.	Item description	Qty	Unit	Cost in Rs
no				
1.	<b>Part A:</b> Design, Engineering, Supply, Installations, Testing and Commissioning (SITC)- Civil, Electrical, HVAC, MGPS	1	Job	
2.	Operation & CSMC	6	Per Month	
3.	Part B: Medical Equipment	1	Job	

# SECTION 14 BILL OF QUANTITIES

## Turn key Item details

**Sub:** Invitation of e-Tender on Turn-key basis for Design, Engineering, Supply, Installations, Testing and Commissioning (SITC) including Civil works and operation and comprehensive service Maintenance of proposed Upgradation of 63 Bed ICU at ESIS Hospital, Kandivali, in R/South Ward" by MCGM

sr. no	Item description	Qty	Unit	Cost in Rs
1.	<b>Part A:</b> Design, Engineering, Supply, Installations, Testing and Commissioning (SITC)- Civil, Electrical, HVAC, MGPS	1	No	
2.	Operation & CSMC	6	Per Month	
3.	Part B: Medical Equipment	1	No	

# SECTION -15

Schedule of Payment

### Part A & CSMC

Stages	Work	% of payment on cost quoted by successful bidder for procurement items.
Stage 1	On Completion of Civil Work, Electrical Work, MGPS Work, HVAC Work	80 %
Stage 2	After successful commissioning trial of MEP services	10%
Stage 3	After obtaining NOC from CFO & third party certification from PESO authorized agency & handing over of the work	10%
	After completion of CSMC for each month after handing over	Monthly Amount quoted

### Part B:

Stages	Work	% of payment on cost quoted by successful bidder for procurement items.
Stage 1	SITC of medical equipment	80%
Stage 2	After Commissioning and handing over of the work	20%

Note: As regards mode of payment, the quantities will be measured jointly by contractors & MCGM Engineering staff on actual basis & accounted for payments.

# **REFERENCE BOQ**

# <u>Part A:</u> <u>Civil, Electrical, HVAC, MGPS</u>

## <u>Civil</u>

Sr					
N 0.	DESCRIPTION	QUAN TITY	Ra te	Per	Amo unt
1	Providing and laying in position ready mixed design mix M-20 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying and the cost of centering, shuttering, finishing and excluding reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. The Mix design as per particular specfications shall be got approved by Engineer-in-Charge before execution of the item. The rate shall include cost of all specified materials and operations at all levels and heights, including the cost of centering, shuttering and and excluding reinforcement which shall be paid under relevant item. (Note :- Cement content considered in this item is @ 300 kg/cum as per IS 456 table showing minimum cement content. No extra will be paid nor any amount will recovered on account of variation of cement in mix design as per specifications for controlled concrete).R.C.C Foundations, footings, bases of columns, rafts, pilecap.	4.00		CU M.	

2	Supplying,fabricating,transportationtosite andFixingGalvanized Chain Link Fencing of 10gauge G.I.Mesh, sizes 50x50mm diamond pattern, fixed 75mm below finished ground level/ coping, includingprovidingand erecting ISA 50x50x6 angle posts @ 2.5m C/C with cross support at every 8th pole & at corners and 2 nos 6mm dia MS bars at top and bottom with necessary U hooks, nuts and bolts, washers, total height of fencing @ 2.0m aboveground including embedding the angle postin concrete block of 0.45m x 0.45m x 0.6m of cement concrete M15 grade including necessary excavation, and cleaning, preparing the surface, applying one coat of redoxidezinc chromateprimerand twocoats of Synthetic Enamel paint of approved manufacture, brand, colour, shade etc. complete as directed by Engineer In Charge. (first coat of synthetic enamel paint after fabrication and second coat after erection including touching up the primer coat)	60.00		SQ M.	
3	Providing Ready mix Micro Concrete jacketing to walls or beams of thickness upto 75 mm using Polymer modified cement premixed quartz sand aggregate packed in bags of standard manufacture, for high early strength of 40 N / mm sq.cm of approved brand. The dry product is to be mixed with 12.5% water by weight, along with washed and poured into rigid form work moulds & tamped properly, & cured for 3 days. [Payment is to be made by weight premixed of micro concrete product consumed as per site register records. No extra payment shall be made for shuttering or any other material.	500.00	J	KG.	

4	Supplying and erecting ABC powder type fire extinguisher as per IS : 13849 / 15683 of 6 kg capacity with necessary clamp for erection on Wall.	3.00	NO
5	Providing Round bottom FIRE Bucket of 9 Litres capacity as per IS : 2546 made out of 24 gauge G.I. sheet with extra handle at bottom duly painted white inside and red outside with FIRE Mark, on provided stand/ wall hook.	3.00	NO
6	Supplying and erecting Wall hook 225mm projection for keeping fire buckets made out of 15 mm dia. M.S. Rod grouted in wall to a depth of minimum 15cms	3.00	Nos
7	Providing and fixing false ceiling with eco- friendly light weight calcium silicate tiles ofSpintone/cosmossurfacetextured"Aerolite " make or equivalent of size 595 x 595mm having 15 mm thick densified microlook edge and 100% humidity resistence, incombustibleasperBS476PartIVandthermalcond uctivity0.043 w/m°KCandNRC0.50placedintruehorizontalleve lsuspended gridofsize600x600mmmadefromhotdippedGIstee lsectionson Sillhoutte profile, rotary stitched double webbed white with 6mm revealprofile(white/black),whereinmainTrunner ofsize24mmx 38mmand0.33mmthick@1200mmcentertocenteran dcrossT ofsize24mmX28mmand0.33mmthick,1200mmlon gspaced betweenmainteeat600mmcentretocentreandsecon darycross TofSize24mmX28mmx0.33thickoflength600mmto beinter lockedatmiddleofthefirstcrossTineachpaneltofor mgridsof 600mmx600mmandrestingonperipherywallprofil ewallsection 24 mm x 24mm x 0.40 thickness and laying false ceiling for services like diffusers grills including cutting, making opening for	90.00	SQ M.

	lightfitting,fixtures,smokedetectorsetc.whereverr equired,main teerunnertobesuspendedformceilingusingG.I.soff itcleatsof size 25 x 35 x 1.6 mm of required length fixed to the ceiling with12.5mm dia and 50 mm long dash fastener, 4 mm dia G.1 adjustablerodswithgoodqualityG.Ileveladjustmen tclipsof85X 30X0.8mmspacedat1200mmcentertocenteralongm ainteeall completeatallheightsasperspecifications,drawings andasper direction of Engineer - in - Charge.			
8	Providing and fixing in position Curtain rod of aluminium colour anodized circular tubular section including the fixing sockets on both sides.	15.00	RM T.	
9	Stitching of Curtains for windows and doors and fixing the same with approved fabric and buttons, accessories, etc complete.	800.00	SQ M.	
10	Coolie/Mazdoor / Chowkidar/ Helper (Unskilled Male abour)	100.00	Da y	
11	ALUMINIUM COMPOSITE PANELS SYSTEM/ FRAMEWORK - IN CURVED SEGMENTED FAÇADE Designing, providing, custom fabricating and installing Providing Alstrong / Durabuild / AluKbond / Alubond - USA or equivalent exterior grade 4mm thick PVDF coated ACP sheets or as approved by Façade Consultant. ACP sheets to comprise of 3mm virgin LDPE sandwiched with 0.5mm thick Aluminium sheets. Finish and Technical specifications as per manufacturer including aluminium framework as per the given	4.00	SQ M.	

	elevational drawings and at all levels and floors/heights In Curved Segmented Facade			
12	Providing and applying 12 mm thick internal sand faced plaster in cement mortar 1:3 at all heights and locations in one coat for masonry (except stone masonry) and concrete surfaces including racking out joints, hacking of concrete surface, watering, finishing, curing, scaffolding etc. complete.	25.00	SQ M.	
13	P&F in position Gypsum board false ceiling with 12.5mm th. Gypsum boards, screwed/ fixed to the under struct of suspended G.I. Grid const & suspended from the main ceiling of ceiling sectn at max c to c distance of 450 mm perimeter channel and intermediate channels at max c to c distance 1200 mm galvanised grid should be fixed to RF CC slab.The gypsum board should be fixed to galvanised iron grid with necessary screws.The boards should be taped and filled from underside to give smooth, seamless ceiling.The rate should include necessary additional ceiling sections and intermediate channels to be provided at openings for light fixtures, asbestos cement ducts, vertical drops, offsets etc. Additional intermediate channels should be fixed to strap hangers for additional support to prevent strapping at every 1200 mm item to be	10.00	SQ M.	

comp in all respect.(G.I. perimeter channel size- 27mmx0.5mm thk.,flange-20mm &30mm,intermediate channel. size- 45mm & 0.9mm thk., hanger size-25mmx0.5mm thk.)complete.			
	Tota	al	

## **Electrical**

Sr.	Item Description	Unit	Rate	Qty	Amount
No.					
1	250A TPN MCCB	Nos.		4	
2	125A TPN MCCB	Nos		4	
3	63A TPN MCB	Nos.		4	
4	200/250 A TPN with tinned copper bars of	Mtr.		2	
	size 40 x 5 mm.				
5	3 Noss. single core Cu PVC insulated flexible	Mtr.		5	
	cable of 95 Sq.mm. for phases & 1 single core				
	Cu PVC insulated flexible cable for neutral of				
	50 Sq.mm for 200 Amp TPNSS switch.				
6	300 Amp. 415V FP Changeover Switch with	Nos		1	
	CRCA sheet steel powder coated enclosure				
7	Supply and fixing 12 mm thick Marine Ply	Sqmtr		15	
	Plank				
8	ENCLOSURE FOR MCCB from 80 a to	No		6	
	315amps				
	1.1 kV grade stranded Cu conductor, XLPE				
	insulated, extruded PVC inner and FRLS				
	outer sheathed, galvanised steel round or				
	strip armoured cables				
9	4C x 16 Sq.mm	Mtr.		500	
10	2C x 4 Sq.mm	Mtr.		100	
11	3.5C x 50 Sq.mm	Mtr		150	
12	3.5C x 95 Sq.mm	Mtr		180	
	Cable End Termination				
13	4C x 16 Sq.mm	Set		30	
14	2C x 4 Sq.mm	Set		4	
15	3.5C x 50 Sq.mm	set		10	
16	3.5C x 95 Sq.mm	set		12	
	Circuit				
17	2 X 4 sq. mm + 1 X 4 sq. mm earth wire in 25	Mtr.		300	
	x 12 mm ( 3/4") (FR Wire in casing caping)				
	Distribution Box				

18	IP 42 Wall/column Mounted distribution	Nos	15	
	board with one Nos of 63A 4P MCB and 3			
	Noss 16A TP MCB / 12 Noss. 16A SP MCB as			
	outgoing (4 way TPN DB)			
19	IP 42 Wall/column Mounted distribution	Nos.	3	
	board with one Nos of 125A 4P MCCB and 6			
	Noss 32A TP MCB as outgoing (8 way TPN			
	MCCB DB)			
20	IP 42 Wall/column Mounted distribution	Nos.	1	
	board with one Nos of DP 16/32A MCB as			
	incomer and 6 Noss 6A/10A SP MCB as			
	outgoing (12 way SPN DB)			
	ELCBs In 16 SWG CRCA sheet steel			
	enclosure, powder coated, wall/column			
	mounted with provision for support			
	arrangement, 2 earthing terminal, Incoming			
	& outgoing cable terminal etc. Colour shade			
	shall be RAL 7032 Smoke gray as per IS 5.			
21	63Amp. 4Pole with 30mA Sensitivity	Nos.	12	
22	40Amp. 2Pole with 30mA Sensitivity	Nos.	2	
23	Switch BOX point for computers through	Nos	6	
	Casing-Capping Description of			
	Item8Modular SURFACE BOX - 1			
	No.8Modular PLATE - 1 No.INDICATOR			
	LAMP - 1 No.15A SWITCH - 1 No.6A 5 PIN			
	SOCKET - 3 Nos.2Modular SURFACE BOX -			
	1 Nos.2M PLATE - 1Nos.RJ11 SOCKET - 1			
	Nos.RJ45 SOCKET - 1Nos.			
	Point wiring by using FRLSH insulated			
	copper conductors (alongwith same size of			
	FRLSH insulated copper conductor for			
	earthing & 3 plate ceiling rose) : Casing &			
	Caping with modular switches & FRLSH			
	wires.			
24	Light /Fan / Ex. fan Points with Modular	Each Pt.	50	
	switches & FRLSH wires			
25	3/5 Pin Independent Plug (IP) with Modular	Each Pt.	126	
	switches & FRLSH wires			

26	15 / 5 A / 6 A Combined Power Plug Socket	Each Pt.	190
	Point with Fuse and Indicating Lamp, One 15		
	Amp SP		
	Switch		
27	5A/6A - 3/5 Half Plug with Modular	Each Pt.	63
	switches &		
	FRLSH wires		
	Fixtures		
28	Fluorescent emergency light fitting with 2	Nos	15
	Nos. 2 feet 20 W (60cms.) double tubes with		
	M.F.SLA rechargable battery with 3 hrs of		
	back up		
29	SITC of LED Square Recessed Downlighter	Nos	10
	36W (600X600)		
30	Tubelight fixtures LED 1X 18W	Nos	5
31	Pedestal fan of 450mm sweep, 230 Volts,AC	Nos	15
	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.		
32	Storage type Horizontal / vertical water	Nos	1
	heater 25 Liters capacity on wall / loft as per		
	specification		
	Readymade 2500mm standard length,		
	prefabricated, perforated cable tray from		
	MS sheet and then hot dip galvanised, of		
	following sizes and associated accessories		
	such as coupler plates, tees, elbow etc.		
	Galvanisation thickness shall be minimum		
	86 Micron.		
33	75 x 25mm (W x H) - (16 SWG - 1.6mm) with	Rmtr	200
	cover		
	Earthing		

34	600 X 600 X 3.15 mm Copper Plate, 3000mm	Nos	6	
	dip with suitable size cu strip earth pit as per	1105	0	
	IS 3043. The earth pit shall be provided with			
	watering pipe (Class B) with wire messed			
	funnel, 25X3 cu strip / 2X8SWG Cu.wire up			
	to 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, back filling, removal of			
	excess soil is included in the scope			
35	Nominal Capacity 3.0 TR Mega Split AC (1	Nos	1	
00	indoor unit of 3 TR each & 1 outdoor unit of 3	1105		
	TR.) including MS stand and Bracket for			
	indoor and utdoor unit			
	Supply & installation of Earth conductor of			
	the following sizes to be cleated on wall/			
	columns with nuts & bolts or laid in cable			
	tray / buried in ground including cutting,			
	drilling, tapping, jointing by welding,			
	connecting to equipments, painting to			
	welded portion by black bitumen paint and			
	with all necesary GI hardware & accessories			
	to complete the work			
36	25 x 3mm Tinned copper	Mtr.	100	
37	Bare Copper Conductor size 8 SWG	Mtr.	750	
	CCTV			
38	Supply, Installation, Testing &	Nos	31	
	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.			
	1			
39	Design, Supply, testing, installation and	Nos	1	
	commissioning of modular 32 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, VGA/HDMI			
	compatible, 2nos front USB 2.0 & 1 no at rear			
	USB 2.0 compatible & 12 TB hard disc and as			
	per storage configuration contractor shall			
	consider the separate hard discs.			
40	Supply, Installation, Testing &	Nos	2	
	commissioning of 42inches LED monitor, Full			
	HD Resolution, Backlight LED, Brightness :			
	400 NITS min., Contrast : 1200 : 1 or better.,			
	Power supply : 230 ±10%, 50 Hz.			
41	SITC of 24 ports 10/100/1000 with 2 combo	Nos	2	
	ports PoE switch with installation			
42	3 Feet Patch Chord	Nos	100	
43	SITC of 9 U Rack	Nos	2	
44	SITC of 6TB Storage (HDD)	Nos	3	
45	Cat 6 Gigabyte	Mtr	2000	
46	25 mm Only PVC Conduits	Rmt	2000	
47	24 Port Manageable Switch	Nos	3	
48	24 Port patch Panel	Nos	3	

49	PVC box & cover plate with RJ-45 for LAN	Nos	70	
	access only			
50	Supplying and erecting ABC powder type	Nos	10	
	fire extinguisher as per IS : 13849 / 15683 of 6			
	kg capacity with necessary clamp for erection			
	on Wall.			
51	Supply, installation, testing & commissioning	Nos	6	
	of Fire Extinguisher -25 kg. Trolley Mounted			
52	Providing Round bottom FIRE Bucket of 9	Nos	10	
	Litres capacity as per IS : 2546 made out of 24			
	gauge G.I. sheet with extra handle at bottom			
	duly painted white inside and red outside			
	with FIRE Mark, on provided stand/ wall			
	hook.			
53	Supplying and erecting Wall hook 225mm	Nos	10	
	projection for keeping fire buckets made out			
	of 15 mm dia. M.S. Rod grouted in wall to a			
	depth of minimum 15cms			
54	SITC of Auto glow signage for Emergency	No.	10	
	Fire Exit			
55	16/32 Amp. DP MCB	Nos.	2	
56	SITC of EPABX 4 x16 P&T	Nos	1	
57	PVC Telephone Cable -2 pair	Mtr	200	
58	PVC box & cover plate with RJ-11 for	Nos	10	
	Telephone			
	access only			
59	10 pair M.S. Junction Box for EPABX	Nos	2	
60	SITC of Push button telephone instrument	Nos	4	
	desk top/ wall mount unit			
	UPS			
61	SITC of 2 nos of 75KVA (to be connected in	Nos	1	
	parallel) or 1 nos of 150KVA True Online			
	UPS System Three Phase Input and Three			
	phase output with 12V Sealed Maintenance			
	Free Battery for 30Min backup with inbuilt			
	Isolation transformer . with suit to site			
	condition battery rack.			

62	Any other item not mentioned in above list	Lumpsu		
	but required for successful commissioning of	m		
	system			
63	Wifi-Internet system (Rental)	Per	6	
		month		
			Total	

## <u>HVAC</u>

Sr. No.	Item Description	Unit	Rate	Qty	Amount
1	The UV light shall be suitable for 415V±10V, 50 Hz 1 phase A.C. supply,1 ended 4 pin type with high output of 800 mA. provided with special inter ior coating. The energy consumption on 441mm length shall not exceed 40W. UV light shall be HO type, T5 dia. Produces UVC at 254 or 253.7 nm. UV lamp has output of 800 u/cm <sup>2</sup> . The SITC of UVGI system comprises of Aluminum reflector, System control panel, Electronic ballast and aluminum extruded frame. The reflector shall be of sufficient reflectance. The system control panel has 240V, 6A circuit breaker, run hour meter, pilot lamp, field wiring terminal block & 54mp MCB for ON/OFF function. It is IP - 45 standard. The specification of electronic ballast input voltage 230V±10%, 50-60 Hz, Power factor > 0.9, Ballast type - Instant start, sound rating – 'A', THD <35%, class –'P', EMI / RFI Compliance – FCC part 18-A, Voltage (For supply and return air Duct)	Nos		8	

3	The UV light shall be suitable for 415V±10V, 50 Hz 1 phase A.C. supply,1 ended 4 pin type with high output of 800 mA. provided with special interior coating. The energy consumption on 441mm length shall not exceed 40W. UV light shall be HO type, T5 dia. Produces UVC at 254 or 253.7 nm. UV lamp has output of 800 u/cm <sup>2</sup> . The SITC of UVGI system comprises of Aluminum reflector, System control panel, Electronic ballast and aluminum extruded frame. The reflector shall be of sufficient reflectance. The system control panel has 240V, 6A circuit breaker, run hour meter, pilot lamp, field wiring terminal block & 54mp MCB for ON/OFF function. It is IP - 45 standard. The specification of electronic ballast input voltage 230V±10%, 50-60 Hz, Power factor > 0.9, Ballast type - Instant start, sound rating - 'A', THD < 35%, class -'P', EMI / RFI Compliance - FCC part 18-A, Voltage transients ANSI C82.11 - 1993, Input / protection - Fuse (for Fresh Air Duct) GSSDucting:-Supplying fabrication installation testing and commissioning of GI.Sheet metal ducting. Zinccoated. Complete with all Standard Accessories, G.IHardware, Self Adhesive elastomeric foam gasket, support etc as per SMACNA specification	Nos	4	
4	20 SWG	sqm	80	
5	Providing thermal insulation to supply air ducting with 19mm.thickness nitrile rubber	Sqm	70	
6	Providing thermal insulation to return air ducting with 12mm.thickness nitrile rubber	sqm	 10	
			Total	

### MGPS

Sr.No	Itemwise Description	Unit	Qty	Unit Rate (In Rs)	Total Amount (In Rs)
1	SITC of Degreased Copper Pipes of 54mm OD x 1.2mm thk with fittings, saddles, brazing and painting	Mtrs	800		
2	SITC of Degreased Copper Pipes of 35mm OD x 1.2mm thk with fittings, saddles, brazing and painting	Mtrs	1600		
3	SITC of Degreased Copper Pipes of 22mm OD x 0.9mm thk with fittings, saddles, brazing and painting	Mtrs	2300		
4	SITC of ISO VALVE - SINGLE PORT/LOCKING 3/4"> 22mm Ball Valve with Pipe line assembly (pre piped) : It should comply with NFPA 99 standards. Pre Piped Degreased Ball Valve with pipe extension. It should be full-port design.It should be blow- out proof stem. It should be lockable valve. The Valve shall be 3 piece ball-type design with a bronze body and chrome plated brass ball for sizes 1/2" to 4". Seats shall be Teflon (TFE) and seals Viton for 1/2" - 4" valves. A blow-out proof stem shall be used and the valve shall have a maximum pressure rating of 600 psi [4,137 kPa]. Valves shall be operated by a lever-type handle requiring only a quarter turn from a fully open position to a fully closed position. Valves shall be designed in such a manner that it can be "swung-out" during installation so as to prevent damage due to heat transfer during the brazing operation. Each valve assembly shall be washed and degreased for medical gas service. The valve shall be supplied in a sealed plastic bag to prevent contamination prior to installation. It should comply with NFPA-99, CSA Z7396.1 and CSA Z305.1.	Nos	8		

5	SITC of ISO VALVE - SINGLE PORT/LOCKING 1-1/4"> 35mm Ball Valve with Pipe line assembly (pre piped) : It should comply with NFPA 99 standards. Pre Piped Degreased Ball Valve with pipe extension. It should be full-port design. It should be blow- out proof stem. It should be lockable valve. The Valve shall be 3 piece ball-type design with a bronze body and chrome plated brass ball for sizes 1/2" to 4". Seats shall be Teflon (TFE) and seals Viton for 1/2" - 4" valves. A blow-out proof stem shall be used and the valve shall have a maximum pressure rating of 600 psi [4,137 kPa]. Valves shall be operated by a lever-type handle requiring only a quarter turn from a fully open position to a fully closed position. Valves shall be designed in such a manner that it can be "swung-out" during installation so as to prevent damage due to heat transfer during the brazing operation. Each valve assembly shall be washed and degreased for medical gas service. The valve shall be supplied in a sealed plastic bag to prevent contamination prior to installation. It should comply with NFPA-99, CSA Z7396.1 and CSA Z305.1.	Nos	10	
6	SITC of ISO VALVE - SINGLE PORT/LOCKING 2"> 54mm Ball Valve with Pipe line assembly (pre piped) : It should comply with NFPA 99 standards. Pre Piped Degreased Ball Valve with pipe extension. It should be full-port design. It should be blow- out proof stem. It should be lockable valve. The Valve shall be 3 piece ball-type design with a bronze body and chrome plated brass ball for sizes 1/2" to 4". Seats shall be Teflon (TFE) and seals Viton for 1/2" - 4" valves. A blow-out proof stem shall be used and the valve shall have a maximum pressure rating of 600 psi [4,137 kPa]. Valves shall be operated by a lever-type handle requiring only a quarter turn from a fully open position to a fully closed position. Valves shall be designed in such a manner that it can be "swung-out" during installation so as to prevent damage due to heat transfer during the brazing	Nos	10	

	operation. Each valve assembly shall be washed and degreased for medical gas service. The valve shall be supplied in a sealed plastic bag to prevent contamination prior to installation. It should comply with NFPA-99, CSA Z7396.1 and CSA Z305.1.			
7	SITC of Digital Area Alarm (3 Services : Oxygen, MA4 Air and Vacuum) with pressure sensor : It should fully comply and meet with NFPA-99 and It must be UL Listed with UL certificate must be submitted. Area alarm should provide with an LED digital read-out comprising of 0-250 psi [0-1,724 kPa] for pressure and 0-30 inHg [-100-0 HgkPa] for vacuum. The digital read-out shall provide a constant indication of each service being measured. It will indicate a green "NORMAL" and a red "HIGH" or "LOW" alarm condition. If an alarm occurs, the "RED" alarm light shall flash and the audible alarm will sound. Pushing the "ALARM MUTE" button will cancel the audible alarm, but the unit will remain in the alarm condition until the problem is rectified. It should be digital LED read-out with red "alarm", normal green trend indicator for each service. Illuminated LED display readable even in poor lighting conditions. It should have Psi, kPa or BAR read-out (switch selected) display. It should have high/low alarm set-points are field adjustable for each gas service. It should have repeat alarm, adjustable 1 to 60 minutes or off. It should have gas specific sensor with DISS nut and nipple. It should have display module with an error message for incorrect sensor to	Nos	3	

	display connection. It should have alarm buzzer in excess of 90 decibels. It should have individual microprocessor for each display and sensor module. It should have all alarm modules mounted on a hinged frame for easy accessibility. It should have dry contacts are used between master module and source equipment for remote monitoring of high and low alarms. It should have sensors housed in a solid, tamper-proof enclosure to act as a barrier against any interference. It should have gas specific sensor with DISS nut and nipple. The box shall be fabricated from 18 gauge [1.3 mm] steel with 1/4" [6.4 mm] I.D. type "K" copper pipe for connection to the service line. The box mounting brackets shall be adjustable to accommodate for different wall thickness. Input power to the 115 VAC to 220 VAC, 50 to 60 HZ. It should comply with NFPA 99 and CSA Z7396.1. The alarm should complies with the following electromagnetic compatibilty standards: FCC Part 15 Class A and ICES-003 Class A.			
8	SITC of Medical Gas Terminal Units (Gas Outlets) for Oxygen : It should fully complies and meets with the requirements of the UK DOH Health Technical Memorandum 02-01 (HTM 02-01) standards only. It shall be duly CE marked to the Medical Device Directive 93/42/EEC under the auspices of notified body no. and under this directive, med gas products are classified as Class IIb Medical Devices. It shall be provided with a copy of the certificate of origin from chamber of commerce. Terminal units shall have gas indexing geometry. Other gas specific indexing geometries are not acceptable. Terminal unit front fascia should be metal and it should be hundred percent metal. Gas specific components comprising the terminal unit second fix shall be manufactured from die-cast zinc alloy or similar hard wearing metal. Plastic components are not acceptable. Terminal units socket castings shall be permanently coated with a low friction fluoropolymer for maximum reliability and	Nos	64	

	service life. The terminal unit socket die- casting shall incorporate a gas indexing pin to overcome the risk of loosening due to rough handling or abuse. The second fix socket shall incorporate a sheer-plane to safeguard the first fix and pipeline in the event of accidental damage or bed jacking. Gas specific components shall incorporate the gas identity marking permanently stamped or cast into the component surface. The first fix shall be all metal construction, with a brass base block and copper stub pipe. The first fix shall incorporate an integral check valve to enable servicing of the second fix and valve seals without isolation of the gas supply. Probe roller pins shall be manufactured from stainless steel. Wall mounted terminal units shall be provided with white ABS mounting box with matching fascia. The mounting box shall have smooth rounded corners to avoid the possibility of injury. A bezel shall be available to cover the plaster edge, provide a neat and easily to clean finish.			
9	SITC of Medical Gas Terminal Units (Gas Outlets) for MA4 Air 4 Bar :It should fully complies and meets with the requirements of the UK DOH Health Technical Memorandum 02-01 (HTM 02-01) standards only. It shall be duly CE marked to the Medical Device Directive 93/42/EEC under the auspices of notified body no. and under this directive, med gas products are classified as Class IIb Medical Devices. It shall be provided with a copy of the certificate of origin from chamber of commerce. Terminal units shall have gas indexing geometry. Other gas specific indexing geometries are not acceptable. Terminal unit front fascia should be metal and it should be hundred percent metal. Gas specific components comprising the terminal unit second fix shall be manufactured from die-cast zinc alloy or similar hard wearing metal. Plastic components are not acceptable. Terminal units socket castings shall be permanently coated with a low friction fluoropolymer for maximum reliability and	Nos	84	

	service life. The terminal unit socket die- casting shall incorporate a gas indexing pin to overcome the risk of loosening due to rough handling or abuse. The second fix socket shall incorporate a sheer-plane to safeguard the first fix and pipeline in the event of accidental damage or bed jacking. Gas specific components shall incorporate the gas identity marking permanently stamped or cast into the component surface. The first fix shall be all metal construction, with a brass base block and copper stub pipe. The first fix shall incorporate an integral check valve to enable servicing of the second fix and valve seals without isolation of the gas supply. Probe roller pins shall be manufactured from stainless steel. Wall mounted terminal units shall be provided with white ABS mounting box with matching fascia. The mounting box shall have smooth rounded corners to avoid the possibility of injury. A bezel shall be available to cover the plaster edge, provide a neat and easily to clean finish.			
10	SITC of Medical Gas Terminal Units (Gas Outlets) for Vacuum :It should fully complies and meets with the requirements of the UK DOH Health Technical Memorandum 02-01 (HTM 02-01) standards only. It shall be duly CE marked to the Medical Device Directive 93/42/EEC under the auspices of notified body no. and under this directive, med gas products are classified as Class IIb Medical Devices. It shall be provided with a copy of the certificate of origin from chamber of commerce. Terminal units shall have gas indexing geometry. Other gas specific indexing geometries are not acceptable. Terminal unit front fascia should be metal and it should be hundred percent metal. Gas specific components comprising the terminal unit second fix shall be manufactured from die-cast zinc alloy or similar hard wearing metal. Plastic components are not acceptable. Terminal units socket castings shall be permanently coated with a low friction fluoropolymer for maximum reliability and	Nos	64	

	service life. The terminal unit socket die- casting shall incorporate a gas indexing pin to overcome the risk of loosening due to rough handling or abuse. The second fix socket shall incorporate a sheer-plane to safeguard the first fix and pipeline in the event of accidental damage or bed jacking. Gas specific components shall incorporate the gas identity marking permanently stamped or cast into the component surface. The first fix shall be all metal construction, with a brass base block and copper stub pipe. The first fix shall incorporate an integral check valve to enable servicing of the second fix and valve seals without isolation of the gas supply. Probe roller pins shall be manufactured from stainless steel. Wall mounted terminal units shall be provided with white ABS mounting box with matching fascia. The mounting box shall have smooth rounded corners to avoid the possibility of injury. A bezel shall be available to cover the plaster edge, provide a neat and easily to clean finish.			
11	SITC of Stainless Steel Ventilator Probe for Oxygen.	Nos	63	
12	SITC of Stainless Steel Ventilator Probe for Medical Air	Nos	63	
13	SITC of Adaptor for connecting with oxygen flow meter	Nos	63	
14	SITC of for connecting with vacuum regulator	Nos	63	

15	SITC of Oxygen Flow Meter (0-15lpm) :It shall fully comply and meets with active medical device of class IIa and in compliance with the EN ISO 15002: 2008 standard. It should be duly CE marked and comply with 93/42/EEC Medical Devices: General. It shall be CE marked with the notified body number specified. It shall be provided with a copy of the certificate of origin. It should be imported oxygen flow meter. It should have pressure compensated to prevent back pressure build up on flow indicator. It should have cartridge knob, extremely reliable, easy-to-clean and ensuring an optimized adjustment. Perfect tightness of the knob thanks to its polyamide seat. The knob was tested under pressurized working conditions during more than 10,000 cycles without showing any leakage after closing. Expanded scale providing higher reading accuracy. Durable polycarbonate flow tube with cover. Monoblock scale cover made of polyamide for a higher sturdiness and a greater safety. The inopportune unscrewing of the monoblock scale cover is not possible. Body made of nickel-plated brass, very strong. Flowmeter should be MRI compatible. Flow meter should be MRI compatible. Flow meter should be of 0-15 LPM range for oxygen and with inlet pressure 50-60psi. (4.5 bar).	Nos	63		
16	SITC of Humidifier Bottle : Polysulphone 250cc Humidifier bottle should be unbreakable, reusable to disinfectants and complements.	Nos	63		

17	SITC of Vacuum Regulator Unit :It shall fully comply and meets with active medical device of class IIa and in compliance with the EN ISO 10079-3: 2009 standard. It should be duly CE marked and comply with 93/42/EEC Medical Devices: General. It shall be CE marked with the notified body number specified. It should be continuous vacuum regulator, compact, strong and ergonomic device. It should be (imported vacuum regulator with safety jar along with diposable antibacterial filter) complete unit. It should have manual adjustment of the vacuum gauge from - 45degree to +45degree for a better visibility. Vacuum gauge should be protected by a plastic housing. It should have on/off switch- button providing a quick restoration of the pre-adjusted vacuum level. It should have central regulation knob with a free rotation at the end of the course (impossible blocking). It should have quick adjustment :2.5turns are enough to reach the maximum vacuum level. It should have vacuum levels :0-1000m/bar. The vacuum regulator should be 3-in-1 system. It should have a device with a metal outlet tubing nipple integrated in the body of the regulator for a better safety, emergency suctions can even be processed. It should be supplied with a 100ml safety jar equipped with a mechanical anti-over flow safety valve and single use antibacterial plastic filter upfront. The safety jar should be made of polycarbonate, autoclavable up to 134degree C and unbreakable. The safety jar should be fixed by an easy-click rotation. The safety jar should be able to rotate to avoid any pinch of the tubing. It should have a unit serial number laser engraved on the body of each vacuum regulator ensuring its identifications and traceability. It should be light weight 490g and dimensions (height230mm X Width 70mm X Depth 90mm).	Nos	63	
18	SITC of Polysulphone Vacuum Collection Jar 1000ml with lid	Nos	63	

19	SITC of Low Flow Vacuum Regulator Unit :It shall fully comply and meets with active medical device of class IIa and in compliance with the EN ISO 10079-3: 2009 standard. It should be duly CE marked and comply with 93/42/EEC Medical Devices: General. It shall be CE marked with the notified body number specified. It should be continuous vacuum regulator, compact, strong and ergonomic device. It should be (imported vacuum regulator with safety jar along with diposable antibacterial filter) complete unit. It should have manual adjustment of the vacuum gauge from -45degree to +45degree for a better visibility. Vacuum gauge should be protected by a plastic housing. It should have on/off switch-button providing a quick restoration of the pre-adjusted vacuum level. It should have central regulation knob with a free rotation at the end of the course (impossible blocking). It should have quick adjustment :2.5turns are enough to reach the maximum vacuum level. It should have vacuum regulator should be 3-in-1 system. It should have a device with a metal outlet tubing nipple integrated in the body of the regulator for a better safety, emergency suctions can even be processed. It should be supplied with a 100ml safety jar equipped with a mechanical anti-over flow safety valve and single use antibacterial plastic filter upfront. The safety jar should be made of polycarbonate, autoclavable up to 134degree C and unbreakable. The safety jar should be fixed by an easy-click rotation. The safety jar should be fixed by an easy-click rotation. The safety jar should be fixed by an easy-click rotation. The safety jar should be fixed by an easy-click rotation. The safety jar should be fixed by an easy-click rotation. The safety jar should be ploty of each vacuum regulator ensuring its identifications and traceability. It should be light weight 490g and dimensions (height230mm X Width 70mm X Depth 90mm).	Nos	10	
20	SITC of Polysulphone Vacuum Collection Jar 1000ml with lid	Nos	10	

21	SITC of Medical Gas Rubber Tubing color coded throughout their length. All hoses shall incorporate an anti-static inner core for Vacuum - yellow	Nos	150	
22	SITC of Oxygen Digital Fully Automatic Control Panel of 2000lpm : It should fully complies and meets with the requirements of the NFPA-99 standards. It should be UL or ETL Listed. The manifold control panel shall consist of two bank regulators (dome bias) used to reduce the cylinder pressure to the two line regulators which in turn controls the final line pressure. The manifold has an intermediate and line relief valve that is internally connected to a common vent port, terminating into a 1/2" FNPT pipe. It should be fully automatic type and shall switch from "Bank in Use" to "Reserve Bank" without fluctuation in the final line pressure. After the switchover, the "Reserve Bank" shall then become the "Bank in Use" and the "Bank in Use" shall become the "Reserve Bank." (Auto DI Manifold Digital nfpa oxy). The control panel includes a line gauge, two bank gauges and incorporates six LED's: two green for "Bank in Use," two yellow for "Bank Ready" and two red for "Bank Empty" on the front of the cabinet. Input power to the manifolds is 110 to 240 VAC, 50-60 Hz. It should have flow capacity 4,500 SCFH [2,000 L/min]. (Maximum tolearance allowed will be only 10%).	Nos	1	
23	SITC of Manifold, Header Bars, Tail Pipes :Oxygen Manifold Supply System (Cylinder Manifold Unit) of 10+10 size : 10cylinder manifold bank as left side and 10cylinder manifold bank as right side complete with 20nos.pig tail pipes and 20nos. non- return valves, all header racks. (for liquid Dura Cylinders)	Nos	1	

24	SITC of Free standing Modular Mounting Frame made of powder coated Section for providing Strength to manifold. The frame does not require any support from the wall and is free standing. The Frame should have the mounting plate to install the Panel. The frame should be assembled without welding using threaded nut and bolt connection and can be dismantled for relocation. It should have provision for grouting on the floor. Over all Length of Frame will be 3500 mm to provide sufficient space to accomodate 10 cylinders on each side.	Nos	1		
25	Steel Structure for support	Kg	100		
26	Ambient Vaporizer Coil 200Nm3/hr	Nos	2		
27	Liquid Line Regulator	Nos	2		
28	Any other item not mentioned in above list but required for successful commissioning of system	Lumps um			
	Total (In Rs)				

#### **Operation & CSMC**

Sr. no.	Description of work	Qty	Rate	Unit	Amount
1	Operation of Electrical, MGPS Work & CSMC of Electrical, MGPS Work for 24x7. As such cost of CSMC for 6 Months.	6.00		Month	
				Total	

# Part B: Medical Equipments

## **Medical Equipments**

S.N			Quanti		Unit	Total
0.	Department	Name of Equipment	ty	t	Price	Price
1			(0	No		
1	63 bed ICU	Patient Monitor	63	S NL-		
2		CNS Monitor	4	No		
			4	s No		
3		Syringe Pump	189	s		
			107	No		
4		Fluid Warmer	27	s		
				No		
5		video laryngoscope	2	s		
				No		
6		Patient warmer	32	S		
		Ventilator (Adult/paed) with		No		
7		Etco2	13	S		
				No		
8		Transport Monitor	1	S		
				No		
9		HFOC/AirVo	11	S		
10		Distasis and him	F	No		
10		Dialysis machine	5	S No		
11		Mobile Light	1	No s		
11		5 function Motorized Bed	1	No		
12		5 function wotonized bed	48	s		
12			10	No		
13		Over bed table	17	s		
		Stretcher trolley		No		
14		5	1	s		
		Bed Side locker		No		
15			63	S		
		Medicine trolley		No		
16			2	S		
		ABG Machine & electrolyte		No		
17		ayalzer	2	S		
10			2	No		
18	NTerro1-1	Portable suction machine	2	S No		
19	Nurse station ICU -2	Weight machine	2	No		
19	100-2	Weight machine	۷	s No		
20		Height measurement	2	INO S		
20			۷	No		
21		Crash cart	2	s		
<b>41</b>		Clasif Calt	∠	ъ		

		Dressing trolley with bowl		No	
22		and bucket	2	s	
				No	
23		HGT machine	4	s	
				No	
24		laryngoscope set	4	s	
				No	
25		ECG machine Trolley	2	S	
				No	
26		Nebulizer	4	s	
				No	
27		contactless thermometer	4	s	
				No	
28		Torch	4	s	
				No	
29	Clean utility	Refrigerator	1	s	
				No	
30	Radiology	CR system & Printer	1	S	
				No	
31		USG-Mobile	1	S	
		Total			