

## SHORT TENDER NOTICE

E-Tender under single stage two part system (Techno-Commercial Bid and Price Bid) are invited as per Prequalification criteria stipulated in Tender Document for the following work at Haldia Dock Complex.

➤ Name of work	:	<p><b>Section A: construction of new boundary wall in east side of the HDI building complex, modification of existing gates including other appurtenant civil works and providing &amp; laying of paver blocks at Haldia Dock Institute Complex, HDC, Haldia.</b></p> <p><b>Section B: Interior renovation including waterproofing works and other appurtenant civil works of Haldia Dock Institute Building, HDC, Haldia.</b></p> <p><b>Section C: Construction of a new toilet complex including approach pathway at Haldia Dock Institute Complex, HDC, Haldia.</b></p> <p><b>Section D: Electrical works for upcoming New Toilet Complex at HDI premises &amp; up-gradation of Electrical Installations (including internal wiring &amp; electrical appliances) of HDI Building and adjacent area at Residential Zone of Haldia Dock Complex, SMP, Kolkata.</b></p>
➤ E-Tender No	:	I&CF/SDM/RZ/21-22/ET/04
➤ Estimated Cost	:	Rs. 1,14,47,669.34 [One Crore Fourteen Lakh Forty Seven Thousand Six Hundred Sixty Nine and Paisa Three Four Only]
➤ Last date of submission of e-tender	:	<p><b>16.07.2021</b></p> <p><b>Submission Up to 15:00 hrs.</b></p>

Details of the Tender & Tender Documents are available in SMP, KOLKATA website ([www.kolkataporttrust.gov.in](http://www.kolkataporttrust.gov.in)) and have to participate in bidding process through their website [https://SMP, KOLKATA.enivida.in](https://SMP,KOLKATA.enivida.in) of RailTel Portal only. Interested bidders may contact at: [bsengupta.hdc@kolkataporttrust.gov.in](mailto:bsengupta.hdc@kolkataporttrust.gov.in)

Sd/-  
 Sr. Dy. Manager (RZ & Spl RT)  
 I & CF Division  
 Haldia Dock Complex  
 Syama Prasad Mookerjee Port, Kolkata

सयमा प्रसाद मुखर्जी पोर्ट, कोलकाता  
**Syama Prasad Mookerjee Port, Kolkata**  
हल्दिया गोदि परिसर  
**HALDIA DOCK COMPLEX**

*BIDDING DOCUMENTS*

**(e-Tender)**

**[Tender No.: I&CF/SDM/RZ/21-22/ET/04]**

**FOR**

Tender for Section A: Construction of new boundary wall in east side of the HDI building complex, modification of existing Gates including other appurtenant Civil Works and providing & laying of paver blocks at Haldia Dock Institute Complex, HDC, Haldia.

Section B: Interior renovation including waterproofing works and other appurtenant Civil Works of Haldia Dock Institute building, HDC, Haldia.

Section C: Construction of a new toilet complex including approach pathway at Haldia Dock Institute Complex, HDC, Haldia.

Section D: Electrical works for upcoming new Toilet Complex at HDI premises & up-gradation of electrical installations (including internal wiring & electrical appliances) of HDI building and adjacent area at Residential Zone of Haldia Dock Complex, SMP, Kolkata.



श्यामा प्रसाद मुखर्जी पोर्ट, कोलकाता  
**SYAMA PRASAD MOOKERJEE PORT, KOLKATA**  
Formerly Kolkata Port Trust

**June– 2021**

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## **1. SCHEDULE OF TENDER (SOT)**

E-Tender under single stage two part system (Techno-Commercial Bid and Price Bid) are invited from reliable, bonafide & experienced agency with required experience as per Prequalification criteria stipulated in Tender Document for **“Section A: construction of new boundary wall in east side of the HDI building complex, modification of existing gates including other appurtenant civil works and providing & laying of paver blocks at Haldia Dock Institute Complex, HDC, Haldia.**

**Section B: Interior renovation including waterproofing works and other appurtenant civil works of Haldia Dock Institute Building, HDC, Haldia.**

**Section C: Construction of a new toilet complex including approach pathway at Haldia Dock Institute Complex, HDC, Haldia.**

**Section D: Electrical works for upcoming New Toilet Complex at HDI premises & up-gradation of Electrical Installations (including internal wiring & electrical appliances) of HDI Building and adjacent area at Residential Zone of Haldia Dock Complex, SMP, Kolkata.”** as per Bill Of Quantities to Haldia Dock Complex. Bid Document may be seen from SMP, KOLKATA website ([www.kolkataporttrust.gov.in](http://www.kolkataporttrust.gov.in)). Corrigenda or clarifications, if any, shall be hosted on the above mentioned website only. Bidders will have to participate in bidding process through website <https://SMP,KOLKATA.enivida.in> **of RailTel Portal** only.

a. TENDER NO.	<b>I&amp;CF/SDM/RZ/21-22/ET/04</b>
b. MODE OF TENDER	e-tendering System
d. Date of NIT available to parties to download	<b>25.06.2021 to 16.07.2021</b>
e. i) Estimated Cost of Work	<b>Rs. 1,14,47,669.34 [One Crore Fourteen Lakh Forty Seven Thousand Six Hundred Sixty Nine and Paisa Three Four Only].</b>
ii) Bid Document fee	The intending bidders should submit Bid Document Fee of <b>INR Rs. 1770.00 (Indian Rupees: One Thousand Seven Hundred and Seventy only) including 18% GST.</b>
iii) Earnest Money Deposit	No earnest money required but the bidders should submit a “Bid Security Declaration” accepting that if they withdraw or modify their bids during period of validity of the offer, they will be suspended for three years.
iv) Transaction Fee/ processing fee for bidding in RailTel Portal	<b>Rs. 8,850.00 (Rupees Eight Thousand Eight Hundred and Fifty Only)</b> (Including GST) (non-refundable) by net-banking / Debit / Credit card at RailTel Portal only.
g. Last date of submission of EMD & Bid Document fee.	<b>16.07.2021</b> upto 15.00 Hrs.
h. Date of starting of online e-tender for submission of Techno-Commercial Bid & Price Bid.	<b>25.06.2021</b>
i. Date of closing of online e-tender for submission of Techno-Commercial Bid & Price Bid.	<b>16.07.2021 (Up to 3:00 P.M.)</b>
j. Date & time of opening of the subject tender	<b>16.07.2021 (After 3:30 P.M.)</b>

## **2. SHORT TENDER NOTICE**

E-Tender under single stage two part system (Techno-Commercial Bid and Price Bid) are invited as per Prequalification criteria stipulated in Tender Document for the following work at Haldia Dock Complex.

➤ <b>Name of work</b>	:	<b>Tender for Section A: construction of new boundary wall in east side of the HDI building complex, modification of existing gates including other appurtenant civil works and providing &amp; laying of paver blocks at Haldia Dock Institute Complex, HDC, Haldia.</b> <b>Section B: Interior renovation including waterproofing works and other appurtenant civil works of Haldia Dock Institute Building, HDC, Haldia.</b> <b>Section C: Construction of a new toilet complex including approach pathway at Haldia Dock Institute Complex, HDC, Haldia.</b> <b>Section D: Electrical works for upcoming New Toilet Complex at HDI premises &amp; up-gradation of Electrical Installations (including internal wiring &amp; electrical appliances) of HDI Building and adjacent area at Residential Zone of Haldia Dock Complex, SMP, Kolkata.</b>
➤ <b>E-Tender No</b>	:	<b>I&amp;CF/SDM/RZ/21-22/ET/04</b>
➤ <b>Estimated Cost</b>	:	<b>Rs. 1,14,47,669.34 [One Crore Fourteen Lakh Forty Seven Thousand Six Hundred Sixty Nine and Paisa Three Four Only].</b>
➤ <b>Last date of submission of e-tender</b>	:	<b>16.07.2021</b> <b>Submission Up to 15:00 hrs.</b>

Details of the Tender & Tender Documents are available in SMP, KOLKATA website ([www.kolkataporttrust.gov.in](http://www.kolkataporttrust.gov.in)) and have to participate in bidding process through their website [https://SMP, KOLKATA.enivida.in](https://SMP,KOLKATA.enivida.in) of RailTel Portal. only. Interested bidders may contact at: [bsengupta.hdc@kolkataporttrust.gov.in](mailto:bsengupta.hdc@kolkataporttrust.gov.in)

### **3. NOTICE INVITING TENDER**

**Work Title: Tender for Section A: construction of new boundary wall in east side of the HDI building complex, modification of existing gates including other appurtenant civil works and providing & laying of paver blocks at Haldia Dock Institute Complex, HDC, Haldia.**

**Section B: Interior renovation including waterproofing works and other appurtenant civil works of Haldia Dock Institute Building, HDC, Haldia.**

**Section C: Construction of a new toilet complex including approach pathway at Haldia Dock Institute Complex, HDC, Haldia.**

**Section D: Electrical works for upcoming New Toilet Complex at HDI premises & up-gradation of Electrical Installations (including internal wiring & electrical appliances) of HDI Building and adjacent area at Residential Zone of Haldia Dock Complex, SMP, Kolkata.**

#### **3.1 E -TENDER NO.: I&CF/SDM/RZ/21-22/ET/04**

E-Tender under single stage two part system (Techno-Commercial Bid and Price Bid) are invited from resourceful, experienced and bonafide agencies with sound technical and financial capabilities on fulfilling the following Pre-qualification Criteria;

#### **3.2 PRE-QUALIFICATION CRITERIA FOR BIDDERS: -**

- i) Average Annual Financial Turnover during the last three years, ending on **31-03-2020**, should be at least 30% of the estimated cost.
- ii) Experience of having successfully completed similar works during last 7 years ending last day of month previous to the one in which applications are invited should be either of the following: -
  - a. Three similar completed works costing not less than the amount equal to 40 % of the estimated cost.  
Or
  - b. Two similar completed works costing not less than the amount equal to 50 % of the estimated cost.  
Or
  - c. One similar completed works costing not less than the amount equal to 80 % of the estimated cost.
- iii) Similar works means: -  
Construction / maintenance of building works /R.C.C Structural Works/ or any combination.
- iv) Work experience, as a sub-contractor or supply contractor shall not be considered as the requisite qualification.

#### **TENDER AUTHORITY:-**

**Sr. Dy. Manager (RZ & Spl RT) (I & CF Divn.), Haldia Dock Complex; Syama Prasad Mookerjee Port, Kolkata.**

#### **Address:**

Township Civil Maintenance Office, Cluster- 5; P.O.: Haldia Township; Dist.: Purba Medinipur ; PIN: –721607, West Bengal, India. **Telephone no. : 03224-263389**

Due Date of submission	<b>16.07.2021</b>	Time	<b>Upto 15:00 hrs.</b>	Date of Opening of Tender	<b>16.07.2021</b>	Time	<b>15:30 hrs. onwards.</b>
<b>Bid document will be available on SMP, KOLKATA website (<a href="http://www.kolkataporttrust.gov.in">www.kolkataporttrust.gov.in</a>) Bidders will have to participate in bidding process through website <a href="https://SMP,KOLKATA.enivida.in">https://SMP, KOLKATA.enivida.in</a> of RailTel Portal only.</b>							
Cost of Tender document (Non-refundable)	<b>Rs. 1770.00 (Indian Rupees: One Thousand Seven Hundred and Seventy only) including 18% GST.</b>						
Earnest Money Deposit	<b>No earnest money required but the bidders should submit a “Bid Security Declaration” accepting that if they withdraw or modify their bids during period of validity of the offer, they will be suspended for three years.</b>						
Time Of Completion	<b>12 (Twelve) Months.</b>						
Estimated Cost Of Work	<b>Rs. 1,14,47,669.34 [One Crore Fourteen Lakh Forty Seven Thousand Six Hundred Sixty Nine and Paise Three Four Only].</b>						

### **3.4 OTHER INSTRUCTIONS:-**

3.4.1 E-Tenderers are invited on two Cover basis (Techno Commercial Part & Price Part) from resourceful, experienced and bonafide bidders with sound technical and financial capabilities for the above mentioned work at Haldia Dock Complex.

3.4.2 Details of the Tender Documents and Notification of any Addendum / Corrigendum to the tender documents are available in web site from SMP, KOLKATA website ([www.kolkataporttrust.gov.in](http://www.kolkataporttrust.gov.in)) and have to participate in bidding process through their website <https://SMP, KOLKATA.enivida.in of RailTel Portal> only.

3.4.3 E-Tender Document shall neither be issued by post nor sold.

3.4.4 E-Tenderers are not permitted to alter/change/delete/modify any clause of the tender document down loaded from the website. If any deviation / discrepancy is found after submission of tender, the submitted offer will be summarily rejected.

3.4.5 Bidders shall submit the Bid Document as stipulated in the “Instructions To Bidders” of the e-tender document. Trustees reserve the right to verify the submitted copies of documents / credentials with the original documents.

3.4.6 The successful tenderer will be required to comply with the relevant provisions of BOCW (RECS) Act, 1996, West Bengal BOCW (RECS) Act, 2004 and BOCW Welfare Cess Act, 1996 and the rules framed there under. An amount of cess as per prevalent rate (presently @ 1% of the billed amount) shall be progressively recovered from all the bills of the contractor for onward transmission of the same to the appropriate authority.

3.4.7 E-Tenderers will be received through <https://SMP, KOLKATA.enivida.in of RailTel Portal> up to 15:00 hrs. on the last date of submission and opening of tender specified above.

3.4.8 Techno Commercial Part of the e-Tender will be opened shortly after 3.30 p.m. on the stipulated date.

3.4.9 Price Part of only technically & commercially qualified bidders will be opened at a later date under due intimation to all concerned.

3.4.10 In case of unscheduled Holiday / Bandh on the date of opening of E-Tender, the same will be opened on the next working day.

3.4.11 It is stated here that the subject tender may not be extended further.

3.4.12 SMP, Kolkata reserves the right to reject any or all offers or to accept the offer in whole or in part without assigning any reason whatsoever thereof.

**Sr. Dy. Manager (RZ & Spl RT)**  
**I & CF Division**  
**Haldia Dock Complex**  
**Syama Prasad Mookerjee Port, Kolkata**

#### **4. Important instructions for E-procurement**

Bidders are requested to use internet Browsers Firefox version below 50 / Internet Explorer version 8 or above, and Java 8 Update 151 or 161.

Further, bidders are requested to go through the following information and instructions available on the [https://SMP, KOLKATA.enivida.in of RailTel Portal](https://SMP.KOLKATA.enivida.in of RailTel Portal) before responding to this e-tender:

- Bidders Manual Kit
- Help for Contractors
- FAQ

**Contact Persons (Syama Prasad Mookerjee Port, Haldia Dock Complex):**

1. Shri B. Sengupta, Sr. Dy. Manager (I&CF), Mob: 9434063574, email: bsengupta.hdc@kolkataporttrust.gov.in

1	<p>Process of E-tender :</p> <p>THE TECHNICAL BID AND THE COMMERCIAL BID HAS TO BE SUBMITTED ON-LINE AT <a href="https://SMP, KOLKATA.enivida.in of RailTel Portal">https://SMP, KOLKATA.enivida.in of RailTel Portal</a> 1). Vendors are required to register themselves online with <a href="https://SMP, KOLKATA.enivida.in of RailTel Portal">https://SMP, KOLKATA.enivida.in of RailTel Portal</a></p> <p>Contact person (Haldia Dock Complex):</p> <p>1. Shri B. Sengupta Designation: Sr. Deputy Manager ( I&amp;CF Division) Mobile No.: + 91 9434063574; Landline: + 91-03224-263389 E-mail : <a href="mailto:bsengupta.hdc@kolkataporttrust.gov.in">bsengupta.hdc@kolkataporttrust.gov.in</a></p> <p><b><u>Contact persons (RailTel Portal):</u></b></p> <p>Shri Siddharth Ghosh Mobile No.: + 91 9355030604 E-mail : <a href="mailto:ewizardsiddharth@gmail.com">ewizardsiddharth@gmail.com</a></p> <p>Shri Deepak Jha Mobile No.: +91 8448288981 E-mail : <a href="mailto:ewizarddipak@gmail.com">ewizarddipak@gmail.com</a></p>
2	<p>The Techno-commercial Bid and the Price Bid shall have to be submitted online at <a href="https://SMP, KOLKATA.enivida.in of RailTel Portal">https://SMP, KOLKATA.enivida.in of RailTel Portal</a> Tenders will be opened electronically on specified date and time as given in the Tender.</p>
3	<p>All entries in the tender should be entered in online Technical &amp; Commercial Formats without any ambiguity.</p>
4	<p>Information about tenders /corrigendum uploaded shall be sent by email only during the process till finalization of tender. Hence the vendors are required to ensure that their corporate email I.D. provided is valid and updated at the time of registration of vendor with <a href="https://SMP, KOLKATA.enivida.in of RailTel Portal">https://SMP, KOLKATA.enivida.in of RailTel Portal</a> Vendors are also requested to ensure validity of their DSC (Digital Signature Certificate).</p>
5	<p>E-tender cannot be accessed after the due date and time mentioned in NIT.</p>
6	<p>Bidding in e-tender :</p> <p>a) Vendor(s) need to submit necessary EMD and Tender fees to be eligible to bid online in the e-tender. Tender fees are non refundable. No interest will be paid on</p>



	<p>EMD. EMD of the unsuccessful vendor(s) will be refunded by the tender inviting authority.</p> <p>b) The process involves Electronic Bidding for submission of Technical and Commercial Bid.</p> <p>c) In all cases, vendor should use their own ID and Password along with Digital Signature at the time of submission of their bid.</p> <p>d) During the entire e-tender process, the vendors will remain completely anonymous to one another and also to everybody else.</p> <p>e) The e-tender floor shall remain open from the pre-announced date &amp; time and for as much duration as mentioned above.</p> <p>f) All electronic bids submitted during the e-tender process shall be legally binding on the vendor. Any bid will be considered as the valid bid offered by that vendor and acceptance of the same by the Buyer will form a binding contract between Buyer and the Vendor for execution of supply.</p> <p>g) It is mandatory that all the bids are submitted with digital signature certificate otherwise the same will not be accepted by the system.</p> <p>h) Buyer reserves the right to cancel or reject or accept or withdraw or extend the tender in full or part as the case may be without assigning any reason thereof.</p> <p>i) No deviation of the terms and conditions of the tender document is acceptable. Submission of bid in the e-tender floor by any vendor confirms his acceptance of terms &amp; conditions for the tender.</p>
7	Any order resulting from this tender shall be governed by the terms and conditions mentioned therein.
8	No deviation to the technical and commercial terms & conditions are allowed.
9	The tender inviting authority has the right to cancel this e-tender or extend the due date of receipt of bid(s) without assigning any reason thereof.
10	Vendors are requested to read the vendor guide and see the video in the page <a href="https://SMP,KOLKATA.enivida.in">https://SMP, KOLKATA.enivida.in</a> of RailTel Portal to familiarize them with the system before bidding.

11	No deviation of the terms and conditions of the tender document is acceptable. Submission of bid in the e-tender floor by any bidder confirms his acceptance of terms & conditions for the tender.
12	The bidders must upload all the documents required as per terms of NIT. Any other document uploaded which is not required as per the terms of the NIT shall not be considered.
13	The bid will be evaluated based on the filled-in technical & commercial formats.
14	The documents uploaded by bidder(s) will be scrutinized. In case any of the information furnished by the bidder is found to be false during scrutiny, EMD of defaulting bidder(s) will be forfeited. Punitive action including suspension and banning of business can also be taken against defaulting bidders.
15	Necessary addendum/ corrigendum (if any) of tender would only be hosted in the e-tendering portal of CPP.
16	Due date of submission of tender will not be extended under any situation.

## **5. INSTRUCTIONS TO BIDDER**

**Tender for Section A: construction of new boundary wall in east side of the HDI building complex, modification of existing gates including other appurtenant civil works and providing & laying of paver blocks at Haldia Dock Institute Complex, HDC, Haldia.**

**Section B: Interior renovation including waterproofing works and other appurtenant civil works of Haldia Dock Institute Building, HDC, Haldia.**

**Section C: Construction of a new toilet complex including approach pathway at Haldia Dock Institute Complex, HDC, Haldia.**

**Section D: Electrical works for upcoming New Toilet Complex at HDI premises & up-gradation of Electrical Installations (including internal wiring & electrical appliances) of HDI Building and adjacent area at Residential Zone of Haldia Dock Complex, SMP, Kolkata.**

### **5.0 PREFACE:**

The work as described in the tender shall be executed in Haldia and in accordance with the attached General Conditions of Contract, Special Conditions of Contract, Particular Specifications, Drawings (if any) & detailed Bill of Quantities. Location Plan of the place of work might be inspected at the office of the Sr. Dy. Manager (Dock), I&CF on any working day before quoting for the tender.

### **5.1 EARNEST MONEY:**

Earnest money and cost of tender document are to be physically deposited at the office of Tendering Authority Sr. Dy. Manager [RZ & Spl. RT], I&CF Division, Township Civil Maintenance Office, Cluster- 5; P.O.: Haldia Township; Dist.: Purba Medinipur; PIN: –721607, West Bengal, India. Telephone no.: 03224-263389, separately in a single sealed envelope, mentioning Tender no. with proper marking.

Demand Draft /Banker's Cheque /Pay Order etc. against Earnest money and cost of tender document, should be submitted/deposited on any scheduled/ nationalized Bank, by the bidder in favour of SMP, Kolkata, payable at Haldia before opening of the tender, as specified in the Tender Document.

5.1.1 Details of cost of e-tender paper remitted should be entered by the participating bidder in the space provided in the e-tender as indicated hereunder:

- a) Name of remitting bidder :
- b) Tender No. :
- c) Amount remitted :
- d) Date of remittance :
- e) DD/BC No. :

5.1.2 Details of Earnest money remitted should be entered by the participating contractor in the space provided in the e-tender as indicated hereunder:

- a) Name of remitting bidder :
- b) Tender No. :
- c) Amount remitted :
- d) Date of remittance :
- e) DD/BC No. :

Tender submitted without requisite Earnest Money and tender paper will be liable for rejection.

## **5.2 MODE OF SUBMISSION OF BID:**

5.2.1 All bidders must submit their offers through e- tendering in accordance with the terms and conditions set out in the bid documents and no deviation will be accepted.

5.2.2 Techno commercial part shall contain the following which are to be uploaded: -

### **I. Essential Document: -**

- a) Credentials in the form of copies of Letters of Award of Works along with corresponding Completion Certificates from clients to justify that the intending bidder satisfies the earlier mentioned pre-qualification criteria.
- b) Certified copies of audited balance sheet and Profit and Loss account / Trading account for the last 3 (three) financial years (**i.e. 2017-2018, 2018-2019, 2019-2020**).

### **II. Non-Essential Document :-**

- a) That the Bidding Firm has Not been debarred / de-listed by any Govt / Quasi Govt. / Public Sector undertaking in India.
- b) The proprietor/partner(s)/authorized signatory of the bidding firm (in the case of proprietorship firm /partnership firm /limited company, as the case may be) is/are not associated with any other firm bidding for the same work.
- c) The un-priced “Abstract Form Of Tender” & “Form Of Tender” (without price quoted) shall not only be signed and stamped by the Bidder, but must also be duly witnessed and scan copy to be uploaded.
- d) A list of works which are in hand at the time of submitting the offer as per the enclosed proforma titled ‘Concurrent Commitments of The Bidder’ vide ‘Annexure-II’ in Volume-I of the tender document.
- e) A Declaration as per ‘Annexure – IA’ that no conditions / deviations have been added in the price part of the Bid.
- f) Scan copy of the following documents to be uploaded:-
  - i) GSTIN / Provisional GST registration certificate.
  - ii) Valid Trade Licence.
  - iii) Valid Professional Tax Clearance Certificate / Up to date tax payment.
  - iv) Proof of possessing valid Employees’ Provident Fund (EPF) Account.
  - v) Proof of being registered with Employees’ State Insurance Corporation (ESIC).
- g) Details of the firm as per “BIDDER’S PROFILE” of the tender document.
- h) Addendum/Corrigendum / Notice / Extension Notice issued and drawings (if any) duly signed by the Bidder under office seal.

The bidder will have to produce the original documents or any additional documents, if asked for, to satisfy the Authorities.

5.2.3 All the bidders should submit the e-tender in accordance with the Mode of submission of Bid as aforesaid.

## **5.3 OPENING OF BIDS:**

Techno Commercial Part and Price Part as stated above will be opened on the date and time as fixed in the e-tender document on line.

## **5.4 SECURITY DEPOSIT:**

- 5.4.1** For the successful Bidder, the Security Deposit shall be recovered from the Earnest Money deposit in accordance with clause 3.4 (f) and (g) of the General Conditions of Contract.
- 5.4.2** Refund of S.D. and forfeiture S.D. shall be guided by Cl. 3.5 (i) & (ii) of the G.C.C.

## **5.5 REFUND OF EARNEST MONEY:**

The Earnest Money received, will be refunded or released as the case may be to the unsuccessful Bidders without any interest within 7 [Seven] days after opening of Price bid of the e-Tender document.

## **5.6 VALIDITY OF OFFER:**

The e-tender shall remain valid for a period of 120 [One Hundred Twenty] Days from the date of opening the same. If before expiry of this validity period, the Bidder amends his quoted rates or tender, making them unacceptable to the Trustees and / or withdraws his e-tender, the Earnest Money deposited shall be liable to forfeiture at the option of the Trustees/ Sanctioning Authority/Engineer.

## **5.7 DETAILED SCRUTINY OF E-TENDERERS :**

5.7.1 During the course of examination of Techno Commercial Part of the bid, the bidders, if asked for, shall furnish any or additional document(s) for the purpose of evaluation of his / their bids. The price bids of those bidders who meet the qualifying criteria of NIT shall be opened.

5.7.2 During techno-Commercial Evaluation of tender, an offer shall be considered non-responsive in case :-

- (i) is not accompanied by requisite earnest money,
- (ii) is not accompanied by requisite tender paper cost,
- (iii) validity of the offer is less than tender stipulation,
- (iv) It does not meet the Qualification Criteria as stipulated in the NIT.
- (v) The bidder submits conditional offer / impose own terms and conditions / does not accept tender conditions completely.

In addition to above, a bidder may be disqualified if –

- a) The bidder provides misleading or false information in the statements and documents submitted.
- b) Record of unsatisfactory performance during the last seven years, such as abandoning of work or rescinding of contract for which the reasons are attributable to the non-performance of the contractor or inordinate delays in completion or financial bankruptcy etc.

The decision of SMP, Kolkata in this regard shall be final and binding on the Bidder.

## **5.8 For Micro & Small Enterprises (MSEs) :-**

- 5.8.1 Micro & Small Enterprises (MSEs) shall submit the following documents for availing themselves waiver of EMD and cost of tender documents :-
- 5.8.2 Micro and Small Enterprise registered with the authorities as mentioned in the Govt. of India gazette Notification dated 26.03.2012 shall be exempted from payment of Cost of Tender Document and depositing Earnest Money for which copies of valid MSE's Certificate along with NSIC / DIC / any other certificate of the authority as mentioned in the Govt. gazette with list of items registered must be submitted with tender.

## **5.9 EVALUATION CRITERIA :**

During evaluation of Price Part, provided that the bidder submits his offer following e-tender stipulations & specifications, **the overall lowest offer received** shall be considered for acceptance by the Trustees.

## **5.10 ACCEPTANCE OF TENDER :**

5.10.1 SMP, Kolkata reserves the right to accept / reject any / all offer(s) without assigning any reason thereof and also reserve the right to accept the tender in part or as a whole.

5.10.2 Any attempt to exercise undue influence in the matter of acceptance of Tender is strictly prohibited and any Tenderer who resorts to this will render his tender liable to rejection.

5.10.3 The successful Tenderer will be notified in writing of the acceptance of his tender. The “Tenderer” then becomes the “Contractor” and he shall forthwith take steps to execute the Contract Agreement within six weeks of issue of Letter of Acceptance and fulfill all his obligations as required by the Contract.

## **5.11 GOOD CONDUCT:**

If a bidder has had previous history of “defined misconduct” (such as banning from by any government sector, premature termination of a contract solely on bidder’s fault, criminal case pending against the company or its owner / current director filed by a government entity etc.) his offer is liable to be ignored.

## **5.12 MISCELLANEOUS:**

- (i) Bidder shall submit his offer for complete scope of work, strictly in accordance with the tender documents. Any deviation from the tender documents and / or any incomplete tender shall not be considered.
- (ii) The bidder shall not impose his own terms & conditions in his offer or quote his rates based on his own terms and conditions, such E-Tenderers are liable to rejection at the option of the Trustees without further reference to the bidder.
- (iii) All materials shall have to be procured by the successful Bidder and shall be of the best and approved quality conforming to relevant specifications. The successful Bidder shall also arrange for the supply of all labour, tools and plants as stipulated in the Special Conditions of Contract, required for efficient execution of the work.
- (iv) All measuring units are in Metric System and rates and sums in the tender are in Indian Currency. The language used throughout shall be in English.
- (v) The Tender Documents with all the enclosures, appendices, Abstract Form of Tender and Form of Tender shall be required to be complete, duly filled in and signed and uploaded.
- (vi) The Bidder shall give a declaration about the names of their relations employed in SMP, Kolkata. It is not the intention to debar the Contractors from working if their relatives are working in SMP, Kolkata, but such a declaration is necessary in the interest of Trustees against any possible lapses.

## **6. SPECIAL CONDITIONS OF CONTRACT**

**E- Tender for Section A: construction of new boundary wall in east side of the HDI building complex, modification of existing gates including other appurtenant civil works and providing & laying of paver blocks at Haldia Dock Institute Complex, HDC, Haldia.**

**Section B: Interior renovation including waterproofing works and other appurtenant civil works of Haldia Dock Institute Building, HDC, Haldia.**

**Section C: Construction of a new toilet complex including approach pathway at Haldia Dock Institute Complex, HDC, Haldia.**

**Section D: Electrical works for upcoming New Toilet Complex at HDI premises & up-gradation of Electrical Installations (including internal wiring & electrical appliances) of HDI Building and adjacent area at Residential Zone of Haldia Dock Complex, SMP, Kolkata.**

### **6.0 PREFACE:**

These provisions though given in a separate section are part of the tender documents which must be read as a whole, the various sections being complementary to one another and are to be taken as mutually explanatory. These provisions shall be read in conjunction with the other parts of the tender documents viz. General Conditions of Contract, Notice Inviting E-Tenderers, Instructions to Bidder, Particular Specifications, Drawings, Bill of Quantities and other documents forming part of the Contract. In case of any discrepancy or ambiguity in the documents, the order of precedence of the documents as stated below will apply. In particular, these provisions will over ride those in the General Conditions provided there is discrepancy between them.

### **6.1 CORRELATION AND ORDER OF PRECEDENCE OF TENDER DOCUMENTS:**

If the stipulations in the various tender documents be found to be at variance in any respect, one will override others (but only to the extent these are at variance) in the order of precedence as given in the list below, i.e. any particular item in the list will take precedence over all those placed lower down in the list.

- Order letter.
- Bill of Quantities.
- Drawings.
- Particular Specifications of work.
- Special Conditions of Contract.
- General Conditions of Contract.

In case of any dispute, question or difference either during the execution of the work or any other time as to any matter or thing connected with or arising out of this Contract, the decision of the Sr. Dy. Manager (I&CF), Haldia Dock Complex, thereon shall be final and binding upon all parties.

### **6.2 SCOPE OF WORK:**

The major scope of work shall be:-

- (i) Excavation in foundation.
- (ii) Cleaning compound premises of shrub, plants, jungles etc.
- (iii) Earth work in filling.
- (iv) Brick work.
- (v) Cement plastering, Cement Concreting.
- (vi) Neat cement punning.
- (vii) Supplying and laying true to line and level vitrified tiles.

- (viii) Taking out old soling, dismantling cement concrete/ brick work M.S structural works.
- (ix) Supplying, fitting and fixing marble slab/tile.
- (x) Providing ornamental grill/ collapsible gate.
- (xi) Taking out door & window frame including shutter.
- (xii) Provide and fix MS clamp / tower bolt etc.
- (xiii) Cleaning of exposed reinforcement.
- (xiv) Sal wood work.
- (xv) Providing PVC door shutter / wood work for door & window.
- (xvi) Providing and applying paint on timber/ shed/ painted surface.
- (xvii) Providing UPVC Pipes.
- (xviii) Plumbing and sanitary works.
- (xix) Providing and laying of G.I. Pipes of TATA make.
- (xx) Providing and laying designer paver block.
- (xxi) Removal debris/building rubbish/ concrete lumps/ earth etc.
- (xxii) Taking out old torfelt and providing APP membrane for roof treatment.

All the items of works as detailed above shall have to be carried out as per specification and as detailed in the “Bill of Quantities”.

The scope of work also includes all other ancillary and appurtenant works as set forth in the attached Bill of Quantities in accordance with specifications for materials and workmanship as per this tender, relevant BIS codes, specifications as detailed in M.O.R.T.H Specifications and PWD, West Bengal’s Schedule of Rates for Road & Bridge Works and Building Works (Latest editions).

### **6.3 LOCATION:**

The construction and repairing works are located at HDI premises at Haldia Township under Haldia Dock Complex.

### **6.4 ACCESS TO THE SITE:**

(a) By Road:

All-weather hard top road approachable from N.H. 41 and State Highway exist right up to the area of work.

(b) By Rail:

S. E. Railway Branch Line connects Haldia with the Panskura/Mecheda Railway Station.

### **6.5 INSPECTION OF SITE:**

The Bidder shall inspect the site of work and thoroughly familiarise himself with the nature of work, site conditions, and access to the site and location before submission of the tender. He should contact the Sr. Dy. Manager, RZ (I&CF), Cluster –V, P.O.: - Haldia Township, Dist.: Purba Medinipur, Pin: 721607 for collecting information about the site before submission of the tender.

No excuse will be entertained afterwards on the above ground. In case any part of the site cannot be handed over to the successful Bidder in time, no compensation for loss of labour or any other cause nor any claim will be entertained by the Trustees. Suitable extension of time shall, however, be granted to the successful Bidder on that ground if applied for.

### **6.6 SITE CONDITIONS & METHOD OF WORK:**

The sequence of delivery of the materials shall have to be programmed by the successful bidder as per direction of the Engineer.

Any damage caused to the existing pavement / structures/facilities/service lines or defect arising during construction shall have to be made good / rectified forthwith as directed to the satisfaction of the Engineer.

They shall have to plan the work in such a way so that all the activities of the job can be continued after taking care of the above hindrances effectively round the clock even on Sundays and holidays in order to complete the job within scheduled time frame as mentioned below. The tenderers shall consider the above points while quoting their rates.

The Contractor shall take all possible care so that other construction and / or operational works around the area, if any, are not unduly hampered for this work. Any defect arising during construction work shall have to be rectified forthwith as directed, to the satisfaction of the Engineer, without charging extra. During execution of the work, proper care should be taken to provide adequate protection to the existing structures, cables (electrical / telephone / computer etc), fresh water and fire pipelines etc. and other installations against any damage at the contractor's risk and expense. Careful manual excavation will have to be carried out in places where service lines have been laid (information to be obtained from Engineer by the contractor beforehand) to avoid any damage.

The tenderers shall have to assess the impact of hindrance to the different activities of the work which may likely to occur during execution of the job due to various factors including those of shipping and other operational activities in the areas and also as stated above. They shall have to plan the work in such a way so that all the activities of the job can be continued after taking care of the above hindrances effectively round the clock even on Sundays and holidays in order to complete the job within scheduled time frame as mentioned below. The tenderers shall consider the above points while quoting their rates.

## **6.9 SETTING OUT WORKS AND INITIAL MEASUREMENTS:**

The Engineer shall provide the initial references and a benchmark for the setting out of the work. It will be the Contractor's responsibility to set out the works accurately and get them checked by the Engineer.

The Contractor shall provide at his own expense all necessary instruments, staff and labourers for the checking of the survey.

The Contractor shall be responsible for the true setting out of the Works, and for the correctness of all dimensions, levels, lines, positions and alignment. Any error in any of the dimensions, levels, lines, positions and alignment found in any part of the Works shall be rectified by the Contractor at his own cost. Checking by the Engineer at any stage shall not absolve the Contractor from any responsibility for proper setting out and construction of the Works to correct levels, lines, positions and alignment.

Before commencement of the work, the Contractor shall take initial measurements and spot levels at intervals as ordered by the Engineer and after verification by the Engineer, these records shall be signed by the Contractor and serve as the initial record for earthwork measurements. The Contractor shall give the Engineer or his representative at least 24 hours prior notice in writing of the time when any part of the setting out of the works will be ready for checking.

## **6.10 TIME OF COMPLETION:**

The work is urgent in nature and must be commenced immediately on receipt of the work order and to be completed in all respects within **12 (Twelve) Months** including preliminary time from the date of placement of work order.



## **6.11 MAINTENANCE PERIOD:**

The Contractor shall maintain the works allotted to him as per Clause 9.0 of the General Conditions of Contract for a period of 01 (One) Year from the date of completion as certified by the Engineer or his representative in Form GC-1. Security deposit will be deducted as per clause no. 3.4 of the G.C.C.

Maintenance for Waterproofing and painting works: The Contractor shall maintain the waterproofing and painting works for a period of 5 (Five) years from the date of completion as certified by the Engineer or his representative as per G.C.1.

Security Deposit (S.D) @ 10% of the value of the waterproofing and painting works will be deducted from contractor's bill. 50% of such S.D may be released after satisfactory completion of 03 year of maintenance period. Balance 50% S.D. may be released after full maintenance period only.

## **6.12 TEMPORARY OR ENABLING WORK:**

The Contractor shall submit to the Engineer for his approval not less than 28 days before commencement or erection of any part of Temporary Works, drawings and detailed proposals for the method of construction of temporary works such as office, store, and temporary platforms, pre-casting yard, workshop etc. which he intends to construct for the execution of the contract and no such work shall be constructed before obtaining the written approval of the Engineer. These provisions will apply to all enabling works also. The contractor shall obtain permission for any Temporary Works and would ensure that during execution of works the statutory requirements of the concerned authorities such as SMP, Kolkata, Police, Customs, etc. would be complied with.

The Contractor shall also submit his calculations relating to the design of temporary works, strength etc., if required by the Engineer and shall carry out the modifications that the Engineer may require of such temporary works at Contractor's own cost. As with the permanent works, the Contractor shall take all precautions while carrying out the temporary works and shall abide by regulations of all statutory authorities.

Notwithstanding approval by the Engineer, the Contractor shall be solely responsible for the safety and proper execution of the temporary work and all related permanent work. The Contractor at his own cost shall repair any damage occurring to part or whole of the permanent work due to any failure of the temporary works.

## **6.13 CONTRACTOR'S SITE OFFICE, STORE SHEDS ETC:**

On an application from the Contractor, land near to the site of work will be allotted by the Trustees for the construction of Site Office, Store etc. For such allotment a rent will be recovered from Contractor's bill at prevailing rates of HDC plus applicable tax or any amendments thereof.

The Contractor shall hand over vacant possession of the land free from all encumbrances within two months from actual date of completion of work (as stated in G.C.-I).

In case the contractor does not remove the site offices, store etc. within two months from the actual date of completion, the contractor will have to pay compensation equivalent to three times the applicable licence fee for the plot of land allotted to him temporarily for site offices, store etc. as per Schedule of Rent of SMP Kolkata's land and buildings at Haldia and to be recovered from his final bill / Security Deposit. The Contractor shall build office, sheds etc. on the land allotted to him as approved by the Engineer or his representative and shall maintain a clean hygienic condition throughout the period of their use.

The Contractor shall maintain a Site Order Book at his site office and all orders and instructions issued to him from time to time by the Engineer or his representative will be recorded in the Site Order Book. The Contractor shall promptly sign each entry as a token of having received such orders.

#### **6.14 KEEPING THE SITE AND WORKING AREA CLEAR:**

The Contractor shall at all times keep the site and working areas free from all surplus materials, rubbish and offensive matter all of which shall be disposed off in a manner to be approved by the Engineer's Representative. As the works will be carried out mainly inside of operational buildings of HDC, the Contractor has to make necessary arrangement to clear the rubbishes etc. from the buildings, at the end of day's work at his own cost & risk.

#### **6.15 SUPPLY OF MATERIALS BY THE CONTRACTOR:**

It will be the responsibility of the contractor to make timely procurement of all materials for both temporary and permanent works required in accordance with the Bill of Quantities or for any extra/additional work required as per the directions of the Engineer. The contractor shall procure cement, reinforcement steel, paver blocks (if procured), only from manufacturers duly approved by the Engineer.

Second hand rail, if required, will be supplied free of cost from the departmental store. The Contractor will make arrangement for carriage of the 2<sup>nd</sup> hand rail from Trustees' store at Haldia to the site.

The contractor will be allowed to take away surplus materials on completion of the work, subject to Engineer's verification of contractor's records of entry and consumption of materials in the works.

#### **6.16 TESTING OF MATERIALS & EQUIPMENT:**

The contractor shall provide at his own cost all necessary equipment and facilities for such testing which by the nature of work will have to be done at site or at the approved test laboratory.

During inspection of materials, the defective and non-conforming (to the specifications mentioned on BOQ) materials will be rejected and returned.

Material test certificates including challans to be submitted for the materials to the Engineer in charge.

These are only indicative and it may be noted that equipment are to be provided and testing carried out as per direction of Engineer without any reservation and at the cost and expense of the contractor.

Any other testing of materials or workmanship desired by the Engineer shall be carried out by the contractor at his cost from National Test House or any other Government registered laboratory or Institutional Laboratory as approved by the Engineer.

The testing charges and all other incidental charges like packaging and transporting the test samples etc. shall have to be borne by the contractor and must be included in the rates.

#### **6.18 SAFETY:**

The contractor shall adhere to safe construction practice, guard against hazardous and unsafe working conditions and follow all safety precautions for prevention of injury or accidents and safeguarding life and property. The contractor shall comply with relevant provisions of Dock Workers (Safety, Health and Welfare) Act – 1986 and Dock Workers (Safety, Health and Welfare) Regulation – 1990 and Safety Officer of the Trustees or Safety Inspectors shall be afforded all facilities for inspection of the works, tools, plant, machineries, equipment etc. wherever so required.

The contractor shall further comply with any instruction issued by the Engineer, Trustees' Safety Officer, Safety Inspector in regards to safety which may relate to temporary, enabling or permanent works, working of tools, plants, machineries, equipment, means of access or any other aspect.

The contractor shall provide all necessary first aid measures, rescue and life saving equipment to be available in proper condition.

The contractor shall provide PPE's (Personal Protective Equipment) such as, helmet, safety shoe, mask etc. to all workers and shall also provide job specific PPE's e.g. safety belts for working at heights; protective face and eye shield, goggles, hand gloves for welding / gas cutting works; protective foot wear and gloves for hot works; facemasks, gloves and overalls for painting works, mixing and handling materials etc., as directed by the Engineer.

All safety rules shall be strictly followed while working on live electrical systems or installations as stipulated in the relevant safety codes.

Use of hoisting machines and tackles including their attachments, construction tools, machineries and equipment shall comply to the relevant safety codes.

Before allowing workers in sewers, manholes, any duct or covered channel etc, the manhole covers shall have to be kept open and ventilated at least one hour in advance and necessary safety torches / lamps should be inserted first before allowing entry to the worker. Suitable hand gloves and other safety gear will be provided to the worker during handling / removing of slushes / sludge etc. without any extra cost. The contractor shall adopt all the above safety measures at his own cost.

The successful bidder shall also ensure that –

- (i) No damage is caused to plants and vegetation's unless the same is required for execution of the project proper.
- (ii) The work shall not pollute any source of water / land / air surrounding the work site so as to affect adversely the quality or appearance thereof or cause injury or death to animal and plant life.
- (iii) His office & labour hutment etc. shall be maintained in a clean and hygienic condition throughout the period of their use and different effluents of the labour hutment shall have to be disposed off suitably.

## **6.19 POWER SUPPLY:**

If available and if required, suitable power supply may be arranged by the Trustees at the nearest existing supply point of the site of work on receipt of request letter from the Contractor to that effect. All necessary arrangements for the distribution at site will have to be made by the Contractor at his own cost as approved by the Trustees' Plant and Equipment Division.

Charges for consumption of power shall be periodically recovered from the Contractor's Bill at the rates of WBSEB as prevalent amended from time to time along with departmental overhead of 19.25% including installation and hire charges for meters. The Trustees do not guarantee uninterrupted power supply from the above sources and Contractor shall not be compensated for any delay in providing / irregularity of power supply. The Contractor shall have to arrange for the supply of power at his own cost during such periods.

## **6.20 WATER:**

The Contractor will arrange for supply of water both for drinking and for construction purposes. However, on written request from the Contractor, water for drinking and for construction purposes may be made available from the existing water line of the Trustees at a point near the site of work. The contractor will have to arrange for laying pipelines, as necessary, as per approval of the Engineer or his representative, for storing and distributing the same to the work point at his own cost. For supply of water by Trustees to the Contractor, an amount equivalent to 1% (one percent) of the gross bill value for cementitious items only shall be progressively recovered from the running bill including final bill as applicable.

## **6.21 METHOD OF MEASUREMENT:**

Unless otherwise specified in the Particular Specifications and Bill of Quantities, the work shall be measured according to the current P.W.D.'s (Building, Road, and Sanitary) Schedule of Rates, Govt. of West Bengal and analysed rate. For details of measurement not covered by the above S.P.-27 1987 of B.I.S. shall be referred to.

## **6.22 ON ACCOUNT PAYMENT:**

Payment will be made to the Contractor on the basis of measurements at the quoted rates in the Bill of Quantities after completion of the work.

On Account payments may be made at the discretion of the Engineer or his representative at intervals deemed suitable and justified to him provided always that, subject to execution of work of substantial value in the context of contract price, the interval of such On Account payment shall be decided by the Engineer or his representative, which shall ordinarily be not less than one month in between two payments for on Account bills and/ or advance.

Any On Account payment made prior to issue of the certificate in Form GC-2 shall all be treated as mere advances, which shall stand recoverable in full or in part if the Engineer so decides in the context of Contractor's unfulfilled contract condition, if any.

The terms of payment shall be in accordance with General Conditions of Contract. The Bills should be submitted by the contractor in quadruplicate to the Sr. Dy. Manager (I&CF)'s Office with necessary documents in original.

Subject to the availability and feasibility of system, HDC may make payment directly to the contractor's designated bank account.

For this purpose, the contractor will have to indicate (i) name of bank (ii) branch name (iii) branch code and (iv) designated account number in the "Abstract Form Of Tender".

In case payment is made directly through bank, the contractor may be required to submit a pre-receipt as per instruction of HDC.

## **6.23 WATCHING OF MATERIALS:**

The successful Bidder will have to arrange for proper security of all materials and tools brought by him. The Contractor shall be fully responsible for any theft or damage of the materials. He may be allowed to post his Watchmen round –the-clock at the work-site with valid prior permission. No extra amount will, however, be paid separately for watching. The Contractor should quote his rates keeping this in view.

#### **6.24. A. CONTRACT LABOUR LAWS:**

The Contractor must comply with the provisions of Contract labour (Regulation & Abolition) Act 1970 and Contract Labour (Regulation & Abolition) Central Rules 1971 and the rules framed there under with all modifications/amendments being enforced from time to time.

The Contractor shall indicate maximum number of workmen to be engaged on any day for execution of the work in the appropriate place in the ABSTRACT FORM OF TENDER & he shall have to obtain a regular/permanent license as per sec12(1) of the Contract Labour Act.

Further , whenever a contract work has commenced or completed , the contractor has to intimate the same to the Assistant Labour Commissioner(Central) /labour Enforcement Officer (Central) in Form IV-A , within 15 days of such commencement or completion.

The contractor has to obtain a certificate of registration under “Building & Other Construction Workers (Regulation Of Employment & Conditions Of Service) Act-1996 and Central Rule 1998 and his rate shall include a cess payable @ 1 % of the cost of construction as applicable under “Building & Other Construction Workers Welfare Cess Act -1996 & Welfare Cess Rules 1998.

The contractor has to arrange for displaying the name of the Regional Labour Commissioner (Central), Asst. Labour Commissioner (Central) & Labour Enforcement Officer (Central) at his worksite(s).

The contractor shall inform the Principal Employer the date, time & venue of disbursement to be made by him to his workers.

The successful bidder shall also be required to put up a notice at the site of work mentioning the date, time & venue of disbursement to be made by him to his workers and he or his authorized representative shall have to be present during period of disbursement.

#### **6.24 B. COMPLIANCE WITH EPF & M P ACT:**

The successful contractor will have to comply with provision of EPF & MP Act –1952 (along with amendments, if any), issued from time to time.

If asked for by the Employer, the contractor will be required to submit photocopy of all payment challans and produce the original for verification to the representative of the principal employer, i.e. Sr. Dy. Manager (I&CF).

#### **6.24 C. COMPLIANCE WITH ESI ACT:-**

If applicable, the successful bidder will have to comply with provisions of “Employers State Insurance Act –1948”, along with amendments (if any) issued from time to time. He shall obtain ESI registration and shall deduct employees’ contribution as applicable percentage of the wages of each of the employees’ and shall deposit the same together with employer’s contribution as applicable percentage of such total wages payable to the employees or at such rates as fixed by the competent authority from time to time.

In case, where an employee is not covered under ESIC Scheme (or contribution not paid for him regularly) and meet an accident during and arising out of his employment, the contractor being the immediate employer, shall be liable to pay him suitable compensation.

The contractor will be required to submit Photo copies of all payment challans and produce the original for verification to the representative of the principal employer, i.e. Sr. Dy. Manager (I&CF).

#### **6.24 D. INDEMNIFICATIONS:**

The successful bidder shall be deemed to indemnify and keep indemnified the Trustees from and against all actions, claims, demands and liabilities whatsoever under and in respect of the breach of any of the provisions of any law, rules or regulations having the force of law, including but not limited to –

- a) The Minimum Wages Act, 1948.
- b) The Dock Workers (Regulation of Employment) Act, 1948
- c) The Building and Other Construction Workers (Regulation of Employment & Conditions of Service) Act, 1996
- d) The Dock Workers' Safety, Health & Welfare Act, 1986
- e) The Payment of Wages Act, 1936.
- f) The Workmen's Compensation Act, 1923.
- g) The Employees Provident Fund Act, 1952.
- h) The Contract Labour (Regulation and Abolition) Act, 1970; Rules 1971.
- i) The Payment of Bonus Act, 1965.
- j) The Payment of Gratuity Act, 1972.
- k) The Equal Remuneration Act, 1976.
- l) The Employees State Insurance Act, 1948 & Employees State Insurance (Amendment) Act, 1989
- m) Child Labour (Prohibition and Regulation) Act, 1986.
- n) The Maternity Benefits Act 1961
- o) Interstate Migrant Workmen (Regulation of Employment & Conditions Of Service) Act, 1979.
- p) Motor Vehicle Act, latest revision.

#### **6.25 CUSTOMS AND SECURITY REQUIREMENTS:**

The Haldia Dock area is a custom bonded area and as such the Contractor shall comply with all regulations of the Port and Customs authorities extent and those that may be imposed from time to time in respect of the transit of all Contractor's plant, vehicles, materials and staff in the area.

The Contractor shall abide by all the regulations and rules of SMP, KOLKATA applicable to the Haldia Dock Complex, as extant or as may be amended.

#### **6.26 FORCE MAJEURE:**

In the event of either party rendered unable by Force Majeure to perform any obligation required to be performed by them under the Contract, relevant obligation of the party affected by such Force Majeure shall upon notification to the other party be suspended for the period which Force Majeure events lasts. The cost and loss sustained by the either party shall be borne by the respective parties.

The term "Force Majeure" as employed shall mean the events as below :

- (i) riot (unless solely restricted to or perpetuated by employees of the Contractor or his subcontractors / suppliers or occurring outside India) so far as it is uninsurable;
- (ii) war, hostilities (whether war be declared or not), invasion, directed to or by India or act of foreign enemies, directed to India;
- (iii) rebellion, revolutions, insurrection, or military or usurped power, or civil war in India;
- (iv) Fire , flood , cyclone , hurricane and acts of God.

Time of performance shall be extended by the period of delay, which is directly caused by the Force Majeure. Upon the occurrence of such cause and upon its termination, the party alleging that it has been rendered unable as aforesaid shall notify the other party in writing immediately but not later than forty eight hours of the alleged beginning and ending thereof, giving full particulars and satisfactory evidence in support of his claim.

Time of performance of the relative obligation suspended by the Force Majeure shall stand extended by the period for which such event lasts and affects the relative obligation directly. Such extension of time shall be without prejudice to the provision that time is essence of the Contract and any other terms and conditions related to time of completion as may be provided elsewhere in the Contract.

If the work is affected by Force Majeure lasting for more than 60 days at a stretch, the parties to the Contract shall settle the issue mutually.

#### **6.27 SETTLEMENT OF DISPUTES:**

If a dispute of any kind whatsoever arises between the Employer and the Contractor in connection with or arising out of the contract or the execution of the works, the same shall be dealt as per relevant provisions of the General Conditions of Contract and THE ARBITRATION AND CONCILITATION (AMENDMENT) ACT, 2015 and any statutory amendment thereof.

#### **6.28 TAX :**

The quoted rates should include all other Taxes excluding GST. GST as applicable shall be paid extra against proper invoice submitted by the successful contractor.

The contractor will be required to submit GST compliant invoice with all required details and also to be required to file timely and proper return so as to enable SMP, KOLKATA to get due input credit against GST paid off.

In case of any failure on the above account, GST amount even if paid by SMP, KOLKATA shall be recoverable from the contractor, along with applicable interest if any.

#### **6.29 ROYALTY:**

Royalty as applicable from time to time for various materials like sand, stone aggregates etc. obtained by the contractor, his agents/suppliers or sub-contractors from government or private quarry/land for the purpose of this contract work shall be paid by the contractor at prevailing rates. He shall indemnify the Trustees against any claim from the Government / other authorities for short or non-recovery of royalty charges and shall pay such short or non-recovered amount(s) on demand to the appropriate authorities at anytime.

#### **6.30 PROVISIONS FOR SITE STAFF OF ENGINEER:-**

After the issue of Engineer's notice to commence, the contractor shall as soon as possible make available of the following facilities for the staff of the Engineer at the Site of Work, all in accordance with the approval of the Engineer or his Representative and the Contract Price shall be deemed to be inclusive of the provision for all these facilities.

Equipment Facilities: - Provide and maintain all necessary equipment in working condition for use of Engineer's staff such survey, testing of materials and any other instruments, equipment and apparatus as they may require for carrying out the contractual obligations.

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## **7. TECHNICAL SPECIFICATIONS**

**E- Tender for Section A: construction of new boundary wall in east side of the HDI building complex, modification of existing gates including other appurtenant civil works and providing & laying of paver blocks at Haldia Dock Institute Complex, HDC, Haldia.**

**Section B: Interior renovation including waterproofing works and other appurtenant civil works of Haldia Dock Institute Building, HDC, Haldia.**

**Section C: Construction of a new toilet complex including approach pathway at Haldia Dock Institute Complex, HDC, Haldia.**

**Section D: Electrical works for upcoming New Toilet Complex at HDI premises & up-gradation of Electrical Installations (including internal wiring & electrical appliances) of HDI Building and adjacent area at Residential Zone of Haldia Dock Complex, SMP, Kolkata.**

### **7.1 GENERAL: -**

- All materials to be used in the permanent works shall be of the best quality of the kind and to the approval of the Engineer. They shall comply with the Specifications laid out in the BIS codes (referred to as IS) as revised or modified up to the date one month prior to the Tender Date unless otherwise specifically mentioned in the Tender Documents.
- Samples of materials to be supplied and used by the Contractor in the works shall be subject to the prior approval of the Engineer. For this purpose, the contractor shall furnish in advance, representative samples in quantities and in the manner as directed by the Engineer for his approval.
- Materials brought to the site, which in the opinion of the Engineer do not conform to the approved sample, shall, and if so directed by him, be removed by the contractor within 24 hours at his own cost from the site and replaced by materials of approved quality at no extra cost.
- The contractor shall produce manufacturer's test certificates for the materials procured by him. The Engineer may carry out or order any test on any of the materials as he may decide. The contractor shall, at his cost and expense, supply requisite materials for this purpose and render such assistance to the Engineer as he may require. The cost of testing will be borne by the Contractor. Further, if and as required by the Engineer, the contractor shall get the materials tested from approved laboratories at his expense and produce the test certificates for the inspection of the Engineer.
- If the Engineer is of the opinion that the materials are not suitable for use on the works; he may reject the consignment, notwithstanding the Manufacturer's certificates. The Engineer's decision regarding the suitability of materials brought to site for use in the works shall be final and binding on the contractor, who shall remove the rejected materials from site and replace them with materials of required quality.
- In spite of approval of the Engineer of any material brought to the site, he may subsequently reject the same if in his opinion the materials has since deteriorated due to long or defective storage or for any reason whatsoever and is thereby considered unfit for use in the permanent works. Any material thus rejected shall be immediately removed from the site at contractor's cost and expense.
- All materials bought to the site shall be properly stored and preserved to ensure their quality and fitness during the course of their use in work. If the storage arrangements are not to the Engineer's satisfaction, he may direct the contractor for arranging proper storage to which the contractor shall have to comply. The materials shall be stored in adequate quantities well in



advance to meet the construction schedule and shall be guarded in the manner directed by the Engineer and to his satisfaction.

- All materials used in the works shall be of the best kind and to the approval of the Engineer's Representative. The materials supplied and the workmanship shall satisfy the relevant clauses as given below and in the Bill of Quantities of the tender. The specifications of the materials and workmanship which do not cover the above shall be referred to BIS specifications/workmanship.

## **7.2 EARTH WORK :**

### **2.1. INITIAL MEASUREMENTS AND JOINT RECORDS:**

Before commencement of excavation or filling, the Contractor shall take initial measurements and spot levels at intervals as ordered by the Engineer and after verification by the Engineer these shall be signed by the Contractor and serve as the initial record for earth work measurement.

### **2.2 EXCAVATION:**

#### **2.2.1 SCOPE OF EXCAVATION WORK:**

Excavation for construction of pavement, trench, drains etc. or other work shall consist of removal of vegetation over the area, cutting, removal and satisfactory disposal of all materials as necessary for the construction of the facilities or other purposes, in accordance with the requirements of these specifications to lines, grades and cross-sections shown in the drawings or as indicated by the Engineer. The work shall also include the hauling and stacking of suitable cut materials as directed, as also the disposal of unsuitable cut materials in specified manner, and trimming and finishing of the excavation to the specified dimensions or as directed by the Engineer.

For purposes of excavation work under this contract, there shall be no classification of soils.

All excavations shall be carried out in conformity with the directions laid herein under and in a manner approved by the Engineer.

While planning or executing excavations, the Contractor shall take adequate precautions against collapse of sides, soil erosion, water pollution etc.

All vegetation over the area shall be removed prior to commencement of excavation and disposed at locations approved by the Engineer.

The excavations shall conform to the grades, side slopes and levels shown on the drawings or directed by the Engineer. The Contractor shall not excavate outside the slopes or below the formation level or loosen any material outside or below the limits of excavation.

Foundation pits shall not be excavated to the full depth unless construction is imminent; the last 150 mm of the depth of excavation shall not be removed until just before concreting.

If the bottom of any excavation has been left exposed and in the opinion of the Engineer, has become badly affected by the atmosphere or by water, the contractor shall remove such portions of the deteriorated foundation material as directed by the Engineer and shall make good with lean concrete and/or sand, all at his own cost and expense.

Any excess depth excavated below the specified levels shall be made good with silver sand or lean concrete at the cost of the contractor as per the directions of the Engineer.

### **2.2.2 ADJACENT STRUCTURES:**

Where the excavation is to be carried out below the foundation level of adjacent structures, the contractor shall take precautions such as underpinning, shoring or strutting as directed by the Engineer, before proceeding with the excavation. The cost of such measures shall be borne by the contractor.

### **2.2.3 STRUTTING AND SHORING:**

Any shoring, strutting and planking, close or open required for the execution of the work shall be done as per requirement.

### **2.2.4 METHODS, TOOLS AND EQUIPMENT:**

Only such methods, tools and equipment as approved by the Engineer, shall be used in the work.

### **2.2.5 DISPOSAL OF EXCAVATED MATERIALS :**

All the excavated materials shall be the property of the Employer and shall be handled as directed by the Engineer. If any thing such as fossils, ancient coins etc. are found while excavating the earth that shall have to be handed over to the employer immediately and shall be the property of the employer.

Unsuitable and surplus materials not intended for use in any filling or otherwise shall be disposed off as directed by the Engineer.

### **2.2.7 CONSTRUCTION OPERATIONS:**

2.2.7.1. Setting out:- After the site has been cleared, the limits of excavation shall be set out true to lines, curves, slopes, grades and sections, as shown in the sketches or as directed by the Engineer's Representative. The contractor shall provide surveyor, all labour, survey instruments and materials such as strings, pegs, nails, bamboos, stones, lime, mortar, concrete etc. required in connection with the setting out of works and establishment of bench marks. The contractor shall be responsible for the maintenance of bench marks and other marks and stakes as long as they required for the work in the opinion of the Engineer's Representative.

2.2.7.2. Excavation:- All excavations shall be carried out in conformity with the directions laid herein under and in a manner approved by the Engineer's Representative. The work shall be so planned that the suitable materials available from excavation are satisfactorily utilised as directed upon beforehand.

The excavation shall conform to the lines, grades, side slopes and levels shown on the drawings or directed by the Engineer's Representative. The Contractor shall not excavate outside the slopes or below the established grades or loosen any material outside the limits of excavation. Subject to the permitted tolerances, any excess depth excavated below the specified levels on the roadway shall be made good at the cost of the contractor with silver sand or lean concrete and compacted.

All debris and loose materials on the slopes of cutting shall be removed. No back filling shall be allowed to obtain required slopes excepting that when boulders or soft materials are encountered in cut slopes these shall be excavated to approved depth on instructions of the Engineer's Representative and the resulting cavities filled with silver sand or lean concrete, as per direction of the Engineer and at the cost of the contractor.

2.2.7.3. Excavation of road shoulders: If directed by the Engineer's Representative, the shoulders shall be removed to their full width and to levels shown on the drawings or as directed by the Engineer's

Representative. While doing so, care shall be taken to see that no portion of the existing pavement designated to be retained is loosened or disturbed.

#### **2.2.7.4 Slides:**

If slides occur in cuttings during the process of construction, they shall be removed at the cost of the contractor as ordered by the Engineer.

#### **2.2.7.5 Dewatering:**

If water is met with in the excavated trenches due to springs, seepage, rain or other causes, it shall be removed by suitable diversions, pumping or bailing out and the excavation pit kept dry whenever so required or directed by the Engineer at the cost of the contractor. Care shall be taken to discharge the drained water as not to cause damage to the works, crops or any other property.

However, if conditions met are such that conventional methods of dewatering are not adequate and well point or other such methods are necessary, the contractor shall submit details thereof for consideration and approval by the Engineer.

#### **2.2.7.6 Compacting original ground:**

In all cases, the original ground shall be consolidated by rolling, as directed by the Engineer's Representative, but with a minimum of ten passes of vibro roller of suitable capacity.

Where so directed by the Engineer's Representative, any unsuitable materials occurring in foundation shall be removed and replaced by approved materials suitably consolidated.

Payment for earthwork in excavation shall be made in Cu.Mtr based on the measurement of the volume of the pit or trench with working space as per IS: 1200 and side slopes of stepping as permitted by the Engineer.

### **2.3 SAND FILLING:-**

The materials for filling shall be silver sand as detailed in the Bill of Quantities.

The materials shall be spread uniformly on the prepared sub-grade with the help of a Pay loader, drag spreader, motor grader or other approved means as permitted by the Engineer's Representative. The thickness of loose layers shall be so regulated that the maximum thickness of the layer after consolidation does not exceed 150 mm.

Thereafter, the area shall be flooded with water, allowed to stay for some time for sand to settle to its maximum natural dense state and then the water slowly allowed to drain out without any ruts or piping. Sand shall be consolidated by mechanical Vibro-roller of L&T / Ingersoll-Rand or any other approved make of suitable capacity.

The surface of any layer of material on completion of compaction shall be well closed, free from movement under equipment and from consolidation planes, ridges, cracks of loose material. All loose segregated or otherwise defective area shall be made good to the full thickness of layer and re-compacted.

The effectiveness of consolidation shall be tested with respect to Relative Density measured by Sand Replacement Method using procedures laid down in relevant IS codes.

### **7.3.0 COARSE AGGREGATE:**

Stone aggregates required for works or aggregate for cement concrete (Plain or reinforced) shall be hard, of uniform and fine texture, free from faults or planes of weakness and free from weathered faces. These must also be free from loam, clay, free from organic matter or other impurities. The materials shall be stacked at roadside lands or other lands (as directed by the Engineer's Representative) in specified heights without causing inconvenience to traffic and in such a way as to afford maximum facilities of work. Aggregates for Cement concrete work should conform to IS: 383. Physical requirements and grading of aggregates for pavement courses shall be as specified for particular type of work and as described in P.W.D. (Roads) and the job specifications contained in the Bill of Quantities of the tender. Only stones as is available from quarries in Pakur areas will be normally used.

All coarse aggregate for concrete works must be well graded. These shall be screened for removal of dust and if so necessary in the opinion of the Engineer's Representative, shall be washed at the cost and expense of the contractor.

### **7.4.0 FINE AGGREGATE (SAND):-**

All sand shall be clean, sharp and free from clay, loam, organic or any other foreign matter and shall be obtained from the approved source. The contractor shall get the sample of sand to be used in different kinds of work approved by the Engineer before using the same in work. Sand that in the opinion of the Engineer is dirty must be washed to his satisfaction at the cost and expenses of the contractor. Sand for cement concrete work must be Zone-II sand. The sand shall pass through a mesh, 4.75 mm square measured in the clear. Sand shall not be used for concrete works if it contains more than 10% of fine grains passing through a 76 mesh sieve as used for cement test, nor should the fineness modulus be less than 2.00 unless specific permission is obtained from the Engineer's Representative, (ii) Medium sand may be used for cement mortar for masonry plaster etc. The gradation of sand as per IS-383 is given below:-

IS SIEVE DESIGNATION	PERCENTAGE PASSING FOR ZONE-I	PERCENTAGE PASSING FOR ZONE-II	PERCENTAGE PASSING FOR ZONE-III	PERCENTAGE PASSING FOR ZONE-IV
10 mm	100	100	100	100
4.75 mm	90-100	90-100	90-100	95-100
2.36 mm	60-95	75-100	85-100	95-100
1.18 mm	30-70	55-90	75-100	90-100
600 micron	15-34	35-59	60-79	80-100
300 micron	5-20	8-30	12-40	15-50
150 micron	0-10	0-10	0-10	0-15

### **7.5 CEMENT CONCRETE WORKS:**

**7.5.1 Standards:** All connecting work shall be done to IS:456 -2000 – Code of Practice for Plain and Reinforced Concrete and other standards mentioned therein, unless otherwise specified or directed by the Engineer.

#### **7.5.2 CEMENT:**

Unless specifically mentioned otherwise the cement to be used in the Works shall be OPC/PPC/PSC of Grade 53/43 conforming to IS: 12269 / IS: 8112 or cement conforming to IS:455 /IS1489 or grades approved by the Engineer. The source of supply shall be subject to prior approval of the Engineer. The

Contractor shall endeavour to get approval of at least two makes / sources, so as to have an alternative make / source in hand in case of disruption in supply from the other make / source.

Once the quality and make of cement to be used in the Works is approved the Contractor shall endeavour to obtain further supplies from the same source and make. The Contractor should be prepared to furnish Manufacturer's test certificate as and when required to do so by the Engineer.

For each delivery of cement to the Site the Contractor shall forward to the Engineer a certificate to the effect that such cement was tested and analysed at the Factory and the results of such tests and analysis meet the specifications stipulated in the relevant Indian Standards. The supplier shall also furnish the date of manufacture of the lot from which the contractor has drawn the consignment.

Notwithstanding the provisions of certificate as stated above, each consignment of cement may after delivery on site and at the discretion of the Engineer be subjected to part or whole of the tests and analyses required by relevant IS Codes. Cost of all such tests shall be borne by the Contractor. No cement shall be used in the works until the Engineer has accepted it as satisfactory.

Storage space shall be adequate to store the required quantity of cement to suit the concreting program for the entire work as well as to permit proper storage.

Cement shall be stored in a proper manner in suitable dry and waterproof sheds to prevent damage from weather or improper storage. Where cement in bags are stacked, the stacking shall be at least 10 to 20 cms above the floor with at least a space of 60 cms kept all round between exterior walls and the stacks. The height of the stacks shall not be more than 10 bags. Further safeguards shall be undertaken in monsoon such as covering the stacks with polythene sheets.

The cement storage at site shall be at Contractor's expense and risk. Damage, if any, occurring to cement due to faulty storage, shall be the liability of the Contractor.

Any consignment or part of a consignment of cement which has deteriorated in any way or which does not otherwise comply with the specifications shall not be used in the Works and shall be removed from the Site by the Contractor at no extra cost to the Employer.

Storage of cement shall be such as to permit easy identification of the different consignments stored. Records must be maintained by the Contractor showing the date-wise receipts with consignment numbers, amounts used and the balance.

Removal of cement from storage sheds for use in the Works shall be on "First in, First out" basis.

### **7.5.3 WATER :**

Water used for mortars, grout, concrete, curing and for other purposes on the Works, shall be clean and free from deleterious materials such as acids, alkalis, salts, vegetable or organic matters in injurious quantities. Potable water, in general, shall be used. The water shall satisfy the requirements laid down in IS: 456-2000. The Contractor shall arrange to have the water he proposes to use in the Works, tested at approved laboratories at his own cost. The Engineer may at any time refuse to permit the use of water, which contains sugar, or excess of alkali, acid or salt as shown by tests. River/Dock Basin water shall not, for any reason whatsoever, be permitted to be used in the work.

### **7.5.4 SHUTTERING / FORMWORK:**

Shuttering must be steel or ply board shuttering true to line as approved by the Engineer. Surface in contact with concrete are to be smooth except where otherwise stated. Joints of the shuttering are to be such as to prevent the loss of liquid from the concrete. In timber shuttering, joints shall therefore, be

either tongued or grooved or the joints must be perfectly closed and lined with craft paper or other types of approved materials.

All shuttering and framing must adequately be stayed and braced to the satisfaction of the Engineer for properly supporting the concrete during the period of hardening. It shall be so constructed that it may be removed without shock or vibration to the concrete.

Before the concrete is placed, the shuttering shall, if considered necessary, be coated with an approved lubricant for preventing the adhesion of the concrete to the moulds and it is to be of such a nature and so applied that the surface of the finished concrete is not stained. Care shall also be taken that such approved preparation shall be kept out of contact with reinforcement.

All formwork shall be removed without shock or vibration before the formwork is stripped, the concrete surface shall be exposed where necessary in order to ascertain that the concrete has hardened sufficiently. Before stripping the shuttering of structural members, the contractor shall take prior permission of the Engineer or his representative

**Re-Use Of Forms :-** Forms shall be surface cleaned of all adhering mortar, concrete and other foreign matter, all damages due to previous use repaired to restore the original condition, cracks and gaps closed to prevent loss of mortar, surface restored and treated with permitted composition. Forms, which in the opinion of the Engineer, are not in a condition to be re-used, shall be removed from the site forthwith.

#### **7.5.5 GRADE & TYPE OF CONCRETE MIX:-**

The grades of concrete shall be as specified in the Bill of Quantities.

#### **7.5.6 BATCHING & MIXING: -**

Unless specified otherwise in these specifications, for 1:3:6, 1:2:4 and 1:1.5:3 nominal mix concrete (by volume), tilting type stationery mixers with hoppers, pan mixers, truck mixers or digital weigh batcher of approved make, design and capacity may be used. Cement Concrete in nominal mix proportion 1:1.5:3 means M-20 grade of concrete, proportion 1:2:4 means M-15 grade of concrete & proportion 1:3:6 means M-10 grade of concrete. The mixing equipment shall be capable of combining the aggregates, cement and water into a thoroughly mixed and uniform mass within the specified time and of discharging the mixture without segregation. The mixers shall be maintained in a satisfactory operating condition and mixer drums kept free of hardened concrete. Mixers shall be properly cleaned before and after every mixing operation.

Mixer blades shall be replaced when worn down more than ten percent (10%) of their depth. Use of mixers which do not function satisfactorily and have leaking drums or other defects shall be discontinued and they shall be repaired or replaced to the Engineer's satisfaction.

Batching and mixing for the paving block / M35 concrete shall be done in a controlled manner at a suitable place.

Ready-mixed concrete supplied from mechanised Batching Plants and transported to the site of work by Transit Mixers may be used with due approval of the Engineer. Batching plant if used shall conform to IS: 4925:2004 and pan mixers used shall conform to IS-12119:1987.

The type and capacity of the plant shall be got approved by the Engineer before commencement of the work. The weighing balances shall be calibrated. All measuring equipments should be maintained in a clean serviceable condition, and their accuracy periodically checked.

Except where expressed otherwise by the Engineer, batching and mixing shall be followed as per relevant Clauses of IS 456-2000.

#### **7.5.7 MIXING TIME:**

Mixing shall be continued until there is a uniform distribution of the materials and the mass is uniform in colour and consistency. There shall be no segregation while or after unloading the mix. The mixing time shall be about 1.5 to 2 minutes or as decided by the Engineer.

Each batch shall be discharged before charging the next batch. Mixing periods shall be measured from the time when all of the solid materials are in the mixer drum, provided that all of the mixing mortar shall be introduced before a quarter of the mixing time has elapsed.

#### **7.5.8 CONCRETING DURING RAINS:**

To prevent damage to freshly laid concrete during rains, the contractor shall provide an adequate supply of tarpaulins or other waterproof covering material. The contractor may require to use make-shift tent like structures with water proof claddings to carry out the work during light drizzles/mild shower, if directed by the Engineer. Any concrete damaged by rain shall be removed and replaced by the contractor at his own cost as directed by the Engineer.

#### **7.5.9 PROTECTION & CURING:**

The contractor shall adequately protect freshly laid concrete after its laying. Curing of concrete shall be carried out in accordance with IS: 456-2000. All equipments and materials required for curing shall be available and ready for use before concrete is placed.

#### **7.5.10 SAMPLING & STRENGTH OF CONCRETE MIX :-**

Samples from fresh concrete shall be taken as per IS 1199 and cubes shall be made, cured & tested at 28 days in accordance with IS 516. In this regard all provisions of IS 456-2000 shall apply.

#### **7.5.11 PAYMENT :**

Payment for Plain / Reinforced Cement Concrete cast in situ or Pre-cast shall be made on the basis of volume in cubic meters of the actual finished concrete done or as per approved drawings for the work, whichever is less and the payment shall be inclusive of all labour, materials, machinery hire, transportation, all leads, lifts and descents, cost of leaving pockets, making channels or grooves as necessary, supply and application of cement slurry, all cost for testing of constituents as well as concrete, compacting, surface finish, cleaning, attendance during concreting, curing, protecting etc. and all other works of every description connected with any or all aspects of concreting excepting reinforcement shuttering which will be paid for separately. For pre-cast members the rate shall also include cost of carriage from casting yard and placing / hoisting in position.

#### **7.6.0 STORAGE OF MATERIALS:**

All materials shall be stored in accordance with the provisions of given hereunder and other relevant IS Specifications. All efforts must be made to store the materials in proper places so as to prevent their deterioration or contamination by foreign matter and to ensure their satisfactory quality and fitness for the work. The platform where aggregates are stockpiled shall be appropriately made. The area shall have slope and drain to drain off rain water. The storage space must also permit easy inspection, removal and storage of the materials. Aggregates of different sizes shall be stored in partitioned stack-yards. All such materials even though stored in approved godowns must be subjected to acceptance test as per these specifications immediately prior to their use.

7.6.1. General:-All materials may be stored at proper places so as to prevent their deterioration or intrusion by foreign matter and to ensure their satisfactory quality and fitness for the work. The storage

space must also permit easy inspection, removal and re-storage of the materials. All such materials even though stored in approved godowns/places, must be subjected to acceptance test prior to their immediate use.

7.6.2. Aggregates: -Aggregate stockpiles may be made on ground that is denuded of vegetation, is hard and well drained. If necessary, the ground shall be covered with 50 mm plank.

Coarse aggregates, unless otherwise agreed by the Engineer in writing, 20 mm and downgraded Pakur variety stone chips. Aggregates placed directly on the ground shall not be removed from the stockpile within 30 cm. of the ground until the final cleaning up of the work, and then only the clean aggregate will be permitted to be used.

In the case of fine aggregates, these shall be deposited at the mixing site not less than 8 hours before use and shall have been tested and approved by the Engineer.

7.6.3 Cement:-Cement shall be transported, handled and stored on the site in such a manner as to avoid deterioration or contamination. Cement shall be stored above ground level in perfectly dry and water-tight sheds and shall be stacked not more than eight bags high. Wherever bulk storage containers are used their capacity should be sufficient to cater to the requirement at site and should be cleaned at least once every 3 to 4 months.

Each consignment shall be stored separately so that it may be readily identified and inspected and cement shall be used in the sequence in which it is delivered at site. Any consignment or part of a consignment of cement which had deteriorated in any way, during storage, shall not be used in the works and shall be removed from the site by the Contractor without charge to the Employer.

The Contractor shall prepare and maintain proper records on site in respect of delivery, handling, storage and use of cement and these records shall be available for inspection by the Engineer at all times.

The Contractor shall make a monthly return to the Engineer on the date corresponding to the interim certificate date, showing the quantities of cement received and issued during the month and in stock at the end of the month.

7.6.4 Water:- Water shall be stored in containers/tanks covered at top and cleaned at regular intervals in order to prevent intrusion by foreign matter or growth of organic matter. Water from shallow, muddy or marshy surface shall not be permitted. The intake pipe shall be enclosed to exclude silt, mud, grass and other solid materials and there shall be a minimum depth of 0.60 m of water below the intake at all times.

### **7.7.0 QUALITY CONTROL FOR WORKS:-**

(i)The contractor shall carry out quality control tests on the materials and work to the frequency stipulated in subsequent paragraphs. In the absence of clear indication about method and frequency of tests for any item, the instructions of Engineer shall be followed.

(ii)The contractor shall provide necessary co-operation and assistance in obtaining the samples for tests and carrying out the field tests as required by the Engineer from time to time. This may include provision of labour, attendants, assistance in packing and despatching and any other assistance considered

(iii)The contractor shall carry out modifications in the procedure of work, if found necessary, as directed by the Engineer during inspection. Works falling short of quality shall be rectified/ redone by



the Contractor at his own cost, and defective work shall also be removed from the site of works by the Contractor at his own cost.

(iv) Cost of all equipment, tools, materials, labours & incidentals to perform tests and other operations of quality control according to the specification requirements shall be deemed to be incidental to the work and no extra payment shall be made for the same.

(v) Where essential tests are to be carried out at the manufacturer's plants or at laboratories other than the site laboratory, the cost of samples, sampling, testing and furnishing of test certificates shall be borne by the Contractor. He shall also furnish the test certificate to the Engineer.

(vi) The supply of aggregates for construction of road pavement shall be from quarries approved by the Engineer. Responsibility for arranging supply of materials from the source shall be that of the contractor.

(vii) **DEFECTIVE MATERIALS:-** All materials which the Engineer /his representative has determined as not conforming to the requirements of the contract shall be rejected whether in place or not ; they shall be removed immediately from the site as directed . Materials, which have been subsequently corrected, shall not be used in the

work unless approval is accorded in writing by the Engineer. Upon failure of the contractor to comply with any order of the Engineer/his representative, given under this clause, the Engineer/ his representative shall have authority to cause the removal of rejected material and to deduct the removal cost thereof from any payments due to the contractor.

(viii) Works performed shall conform to the lines, grades, cross sections and dimensions shown on the drawings or as directed by the Engineer, subject to the permitted tolerances described here in after.

#### 8.1 Control Tests & Their Minimum Frequency For Concrete Ingredients:

Frequency & tests for cement, aggregates, water, admixture, curing compounds etc. will be as detailed in the relevant IS Codes and as approved by the Engineer.

#### **7.8 Steel:**

All steel materials to be used should conform to BIS no. – 1786 : 1985.

All steel shall be clean and free from loose mill scales, dust, loose rust and coats of paints, oil or other coatings. Any scale or loose rust shall be removed before use, even though the same may have been supplied by the Department without any claim for extra charge for the same.

## **7.9 TECHNICAL SPECIFICATION FOR ELECTRICAL WORKS**

### **A. Scope of Work:**

#### **7.9.1** Scope of Work includes-

- a) Electrical works for upcoming New Toilet Complex at HDI premises & upgradation of Electrical Installations (including internal wiring & electrical appliances) of HDI Building at Residential Zone of Haldia Dock Complex, SMP, Kolkata.
- b) New Electrical Installation and fixing of new Light fittings, Fans, Switch Boards etc. including wirings & related works for upcoming New Toilet Complex at HDI premises.
- c) In connection with upgradation of electrical installations of HDI Building, dismantling of existing damaged electrical wirings & installations and depositing the same at Township Electrical Maintenance Office, with proper acknowledgment, are also under the scope of the Contractor. All necessary arrangement, including transportation for the above, is under the scope of the Contractor.

If any damage caused, to existing installation, during dismantling by the Contractor, the same shall have to be made good / repaired by the Contractor at their cost & arrangement.

- d) Installation of Outdoor Light Fittings (Gate Light, Area Light, Terrace light etc.) interconnection between Time Switch Panel Board along with laying of various sizes cables, through trenches and Pipes.
- e) In connection with the instant work, the site & working areas need to be kept free from surplus materials, rubbish, offensive materials, etc. and the same are to be disposed off by the Contractor.  
As the works will be carried out mainly inside various buildings of HDC, the Contractor shall have to make necessary arrangement to clear the rubbishes etc. from the buildings, at the end of day's work at their own cost, risk & arrangement.
- f) In connection with the instant work (inside HDI Building), the Contractor shall have to make necessary arrangement for lifting & shifting of furniture, Books, Instruments & other items and shifting back the same to the original location , as required, after completion of work, at their own cost, risk & arrangement.
- g) Providing Earthing Stations with required Earth Electrode to be driven in the Earth Pit filled up with alternate layer of Charcoal and Salt. Earth Pit should be provided with suitable size Brick Masonry Inspection Chamber with removable RCC Cover (75 mm thick) with handle. Interconnection of Earthing Stations and earth busbar.
- h) Providing Automatic Power Source Transfer assembly in double door, sheet steel, powder painted, [IP-43 protection and complete with earth bar & din bar] Junction Box.
- i) Providing Power supply arrangement upcoming New Toilet Complex at HDI premises, including Supply & Laying ( including end termination) of 1.1 kV grade, XLPE insulated, galvanised steel armoured, aluminium

conductor, power cable and Supply & installation of indoor Wall Mounted Power Distribution Panel Board.

**B. General Requirements :**

- 8.1 The electrical works will be executed to comply with the General Specifications for Electrical works and conforming to the Indian Electricity Act & rules, BIS and direction of the Engineer.
- 8.2 The electrical work shall be carried out by a Contractor, having **valid Electrical Contractor's Licence** issued by the competent authority [under relevant rules of the Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations, 2010, as amended upto date], under the direct supervision of a person having a valid **Supervisor's Certificate of Competency (SCC)**, issued by the appropriate statutory authority, against the relevant parts, for carrying out such type of job [ i.e. Wiring for systems not-exceeding 650 V, Alternating Current (A.C.) Apparatus upto 650 V and Underground cables upto 1100 V ]
- 8.3 The skilled workmen engaged by the Contractor for the electrical work must possess a valid Workman Permit (W.P.), issued or recognised by the competent authority [under relevant rules of the Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations, 2010, as amended upto date], against the relevant parts, for carrying out such work.
- 8.4 The skilled workmen engaged by the Contractor for cable laying related electrical work [cable laying and jointing] must possess a valid Workman Permit (W.P.), issued or recognised by the competent authority [under relevant rules of the Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations, 2010, as amended upto date], against the relevant parts, for carrying out such work.
- 8.5 The Contractor shall be liable to submit the list of aforesaid Licence / Workman Permit holder, along with the attested copies of the of the Licence / Workman Permit, during execution.
- 8.6 The entire job should be executed in accordance with the requirements of following Acts and rules, including latest amendments:
  - a) Indian Electricity Rules – 1956
  - b) Electricity Laws (Amendment) Ordinance, 1997
  - c) Central Electricity Authority Rules, 1977
  - d) Central Electricity Authority Regulations, 1979
  - e) Indian Electricity Act, 2003
  - f) Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations, 2010
- 8.7 The supply, installation and commissioning of all items required for this work should be complied with the above Acts & Rules and relevant Code of Practice of the **Bureau of Indian Standard**, including **National Electrical Code (NEC)** and **National Building Code (NBC)** of India, if not specified otherwise.
- 8.8 The Contractor shall engage qualified / experienced / skilled personnel to carry out the works in all respects at their own cost. The Contractor will engage suitable qualified / experienced & licensed engineering supervisor for the electrical work and suitable skilled personnel, with required permit, for doing the

erection work.

- 8.9 All materials required for the entire work and apparatus used therein, shall conform to relevant specifications of the Bureau of Indian Standard (BIS) or International Electrotechnical Commission (IEC), as applicable, if not specified otherwise in this Bidding Document.

All materials should be inspected before installation. Only accepted materials will be allowed for installation. Necessary consent should be obtained from the 'Engineer' or his representative, before using any material / equipment/ apparatus.

Nothing in this specification shall be construed to relieve the Contractor of their responsibility for providing the equipment, with all accessories, in accordance with applicable statutory regulations and safety codes in force, from the safety angle.

- 8.10 The Contractor holds responsibility for executing the entire job as per relevant specifications. If any item is left out within the schedule of work but if it is considered essential for the completion of the job, the Contractor shall have to carry out the items as extra / substituted item.

- 8.11 The Contractor should use calibrated measuring & testing instruments [ having Valid Calibration Certificate] and should also ensure revalidation of such calibration as and when required. In this regard, initially the Contractor shall have to submit a list of measuring and testing instruments (mentioning the period of validity of Calibration Certificates) to be used. The photocopies of the Calibration Certificates (including the revalidations) of the said measuring and testing instruments, shall have to be submitted to the 'Engineer'.

Calibration Certificate of instruments / equipment, used for testing purpose, should be issued by an NABL accredited Laboratory. For testing equipment where NABL accreditation is not available, calibration certificate from educational institutions like IITs, NITs, J.U., C.U., B.H.U. only can be accepted, provided they demonstrate traceability.

- 8.12 In connection with aforesaid work, transportation and handling of all materials, should be done by the Contractor at their own risk, cost and arrangement.
- 8.13 In connection with the aforesaid work, all materials, will be under the custody of the Contractor, till installation / fixing / commissioning of the same.
- 8.14 The Contractor must make their own arrangements for delivery of all materials, as well as for careful and proper unloading at HDC's site. The responsibility for preventing damage / deterioration to the materials during transit, delivery, unloading at the designated point shall rest with the Contractor. All transit risk will be to Contractor's account.
- 8.15 The Contractor shall arrange all necessary labour, tools, tackles, lifting machineries, scaffolding, temporary lighting, different vehicular transport, equipment (with fuel & operator), etc., required for satisfactory execution of the entire work, at their own risk, cost and expense. Special tools, which would be required during execution of the work, shall also have to be arranged by the Contractor, at their own risk, cost and expense.
- 8.16 The Contractor shall have to make arrangements, at their own risk & cost, for transportation of materials from the point of issue of stores to site of work, if any.
- 8.17 Electricity and water, if required, will be provided free of cost for the purpose of execution of the work at site.

- 8.18 All practical steps shall be taken to prevent danger to persons employed from the risk of fire or explosion or flooding. No floor, roof or other part of the building shall be so overloaded with debris of materials as to render it unsafe.
- 8.19 The Contractor shall provide necessary barriers, warning signals and other safety measures, to avoid accidents. They shall also indemnify HDC, SMP, Kolkata, against claims for compensation arising out of negligence in this respect.
- 8.20 All necessary personnel safety equipment, as per relevant statutory provisions, should be kept available for the use of the persons employed (directly or indirectly on the instant work) on the site and the Contractor should take adequate steps to ensure proper use of safety equipment by those concerned.
- 8.21 The ordinary business and work of HDC, SMP, Kolkata & others, as being carried out on & in the vicinity of the site, shall be continued during installation, testing & commissioning and maintenance. The execution of the work shall be conducted in such a way as to avoid interference with traffic of every kind by land and with any other work in progress in the vicinity.
- 8.22 Inspection / acceptance, in no way shall absolve the Contractor from supplying material as per standards / codes and other obligations under the contract.
- 8.23 Any materials brought for work which is not matching with the relevant specification will be rejected and the rejected materials shall be removed from site on the same day.
- 8.24 A register (Site Work Register with Hindrance Record) is required to be maintained by the Contractor on daily basis with details of works carried out on that particular day, where details regarding engagement of labourers, equipment, receipt of materials and cause of hindrance, if any, shall be recorded jointly [ by the representatives of the Engineer & the Contractor].
- Representative(s) of the Contractor shall have to check the register for any instructions of 'Engineer' or his authorized representative and sign the same for compliance with the instructions recorded therein.
- Any instruction issued by the 'Engineer' or his authorized representative, which has been entered in the Site Work Register, shall be deemed to have been legally issued.
- This Site Work Register (s) shall be the property of HDC, SMP, Kolkata and shall be returned to the representative of the 'Engineer' in good condition, after the completion of the work.
- 8.25 The Contractor shall maintain a Site Order Book at their site office. All orders and instructions issued to them from time to time by the 'Engineer' or his representative will be recorded in the Site Order Book. The authorized representative of the Contractor shall promptly sign each entry as token of having received such orders.
- Any order or instruction issued by the 'Engineer' or his authorized representative, which has been entered in the Site Order Book, shall be deemed to have been legally issued.
- This Site Order Book(s) shall be the property of HDC, SMP, Kolkata and shall be returned to the representative of the 'Engineer' in good condition, after the completion of the work. Photocopy of the same may be retained by the Contractor, for their record.
- 8.26 Relevant aspects of following Rules / Code of Practices should also be followed and complied with:

- a) Indian Factories Act
- b) Dock Workers (Safety, Health & Welfare) Act, 1987
- c) The Workmen's Compensation Act, 1923
- d) The Minimum Wages Act, 1948
- e) The Contract Labour (Regulation & Abolition) Act, 1970
- f) Other Local Regulations.

8.27 If during execution of work any damage takes place in the property of HDC, the same will have to be mended good by the contractor at their risk, cost and arrangement. Otherwise the same will be repaired / replaced by HDC, either departmentally or through outside agency and the cost of repairing / replacement will be recovered from the Contractor, along with overhead charges @19.25%.

8.28 No project surplus material will be taken over by HDC, SMP, Kolkata, after completion of the work.

### **C. Detailed Technical Specification:**

9.0 The type / model of the fans / light fittings should be selected based on the following guidelines. However, Technical Specifications (minimum requirement) must be fulfilled. In case of non availability of a particular type / model, equivalent type / model (of approved Manufacturers, mentioned below) may be selected based on the Technical Specifications (minimum requirement) indicated against the relevant item. Prior written consent is to be obtained from the 'Engineer' or his representative, before supply of the selected type / model of fans / light fittings.

Sl. No.	Items	Type / Model	Technical Specifications (minimum requirement)
i)	Ceiling Fan [Sweep : 1400 mm]	Summer Breeze (Orient)	Speed : 275 rpm – 325 rpm Air Delivery: $\geq 260 \text{ m}^3/\text{minute}$ Power input : $\leq 80 \text{ W}$
		SS-390 (Havells)	
		High Speed (Crompton)	
ii)	Ceiling Fan [Sweep : 1200 mm]	Summer Breeze (Orient)	Speed : 350 rpm – 400 rpm Air Delivery: $\geq 225 \text{ m}^3/\text{minute}$ Power input : $\leq 75 \text{ W}$
		SS-390 (Havells)	
		High Speed (Crompton)	
iii)	Ceiling Fan [Sweep : 900 mm]	Summer Breeze (Orient)	Speed : 375 rpm – 425 rpm Air Delivery: $\geq 150 \text{ m}^3/\text{minute}$ Power input : $\leq 60 \text{ W}$
		SS-390 (Havells)	
		High Speed (Crompton)	
iv)	Exhaust Fan [Sweep: 300 mm]	Heavy Duty Exhaust (Orient)	Speed : 1375 rpm – 1425 rpm Air Delivery: $\geq 1800 \text{ m}^3/\text{hour}$ Power input : $\leq 80 \text{ W}$ Blade : Metallic (Four Blade)
		VENTILAIR DB (Havells)	

Sl. No.	Items	Type / Model	Technical Specifications (minimum requirement)
v)	Exhaust Fan [Sweep: 200 mm]	Brisk Air (Crompton)	Speed : 1250 rpm – 1350 rpm Air Delivery : $\geq 450 \text{ m}^3 / \text{hour}$ Power input : $\leq 40 \text{ W}$ Blade : Non-metallic
		Ventilator DX (Orient)	
		VENTILAIR DX (HAVELLS)	
vi)	Wall Fan [Sweep: 400 mm]	PLATINA HS (Havells)	Speed : 2000 rpm – 2100 rpm Power input : $\leq 110 \text{ W}$
		High Speed (Crompton)	
vii)	1 X 4 ft (approx.) LED tube light fittings	Batten : IGP161LT8-16 (Crompton)	[Box Type]
		Batten : TMC 501 P 1 x T- LED 22W P3241 (Philips)	
		Batten : BLRB-DB 118 (Bajaj)	
		Batten : WIO921208 (Wipro)	
viii)	2 X 4 ft (approx.) LED tube light fittings	Batten : IGP162LT8-16 (Crompton)	[Box Type]
		Batten : TMC 501 P 2 x T- LED 22W P3242 (Philips)	
		Batten : BLRB-DB 218 (Bajaj)	
		Batten : WIO922208 (Wipro)	
ix)	4 ft (approx.) LED tube lamp  System wattage of luminaire: $\leq 22 \text{ W}$	Lamp & driver : LTT8-20 (Crompton)	Lamp: LED tubular lamp with Al body & PC Diffuser Material & in-built driver. Luminous flux: $\geq 2100 \text{ lumen}$ Correlated Colour Temperature (CCT): 5700K - 6500 K
		Lamp & driver : 18W865 T8 (Philips)	
		Lamp & Driver : BLRB 21W CWc (Bajaj)	
		Lamp & Driver : LL13-181-65SE (Wipro)	
x)	1 X 4 ft (approx.) Integrated LED Batten  System wattage of luminaire: $\leq$	LCTLN-20-CDL (Crompton)	Integrated LED Batten (PC) with efficient Diffuser Material & in-built driver.  Correlated Colour Temperature (CCT): 5700K - 6500 K
		Philips Astra Line 20W 4 Ft Straight Linear LED Tube Light (White) (Philips)	
		LL20-221-XXX-65-NE3 (Wipro)	

Sl. No.	Items	Type / Model	Technical Specifications (minimum requirement)
	20 W	BCLSB 20WH (Bajaj)	
xi)	1 X 2 ft (approx.) Integrated LED Batten System wattage of luminaire: ≤ 10 W	LCTLN-10-CDL (Crompton)	Integrated LED Batten (PC) with efficient Diffuser Material & in-built driver.  Correlated Colour Temperature (CCT): 5700K - 6500 K
		Philips Astra Line 10W 2 Ft Straight Linear LED Tube Light (White) (Philips)	
		LL20-111-XXX-65-NE3 (Wipro)	
		BCLSB 10WH (Bajaj)	
xii)	10W-12W Bulkhead surface / wall mounted LED light fittings (IP 65).	BIBWP 10W LED (Bajaj)	Housing: Die Cast Aluminium alloy housing. Inbuilt driver, upto 5 kV surge protection.  IP65 protected System Efficacy: 100LPW  Correlated Colour Temperature (CCT): 5700K - 6500 K
		LBHE-10-CDL (Crompton)	
		LW07-141-XXX-57-XX (Wipro)	
xiii)	05W-06W surface mounted LED light fittings (IP20).	LCDSPLN-R-06-CDL (Crompton)	Pressure Die Cast Al housing Shape: Round / Square IP20 protected System Efficacy: 100LPW  Correlated Colour Temperature (CCT): 5700K - 6500 K
		LD80 ( / LD 81)-350-XXX-60-SM (Wipro)	
xiv)	10W-12W surface mounted LED light fittings (IP20).	LCDSPLN-R-12-CDL (Crompton)	Pressure Die Cast Al housing Shape: Round / Square IP20 protected System Efficacy: 100LPW  Correlated Colour Temperature (CCT): 5700K - 6500 K
		LD80( / LD 81) -101-XXX-60-SM (Wipro)	



Sl. No.	Items	Type / Model	Technical Specifications (minimum requirement)
xv)	18W-20W surface mounted LED light fittings (IP20).	LCDSPLN-R-18-CDL (Crompton)	Pressure Die Cast Al housing Shape: Round / Square IP20 protected
		LD80( / LD 81)-171-XXX-60-SM (Wipro)	System Efficacy: 100LPW Correlated Colour Temperature (CCT): 5700K - 6500 K
xvi)	40W - 45W Post Top LED Light fittings (IP 65).	BGCL 40W LED (Bajaj)	Material: Die Cast Al with PMMA Diffuser Optics.
		LPTO-40-CDL-M (Crompton)	IP65 protected
		LP02-501-XXX-57-XX (Wipro)	Correlated Colour Temperature (CCT): 5700K - 6500 K
xvii)	LED recessed 2ft X 2ft luminaire [IP 20] System wattage of luminaire: $\leq$ 36 W	RC380B LED36S-6500 G4 L60 W60 PSU OD- (Philips)	Housing: CRCA Correlated Colour Temperature (CCT): 5000K - 6500 K Luminous flux: $\geq$ 3600 lumen
		LCTLRNE-36-FO-CDL (Crompton)	Colour Rendering Index (CRI): 80
		CRCO10R038HP57GL1 (Wipro)	
xviii)	LED recessed 1ft X 1ft luminaire [IP 20] System wattage of luminaire: $\leq$ 18 W	BZRSQL 18W WH (Bajaj)	Housing: CRCA Correlated Colour Temperature (CCT): 5000K - 6500 K Luminous flux: $\geq$ 1800 lumen
		LCTLRNE-18-CDL (1X1) (Crompton)	Colour Rendering Index (CRI): 80
xix)	LED recessed 1ft X 4ft luminaire [IP 20] System	BZRSLL 36W GZ1 CW (Bajaj)	Housing: CRCA
		RC380B LED-36S-6500 GS L3W12 PSU OD	Correlated Colour Temperature (CCT): 5000K

Sl. No.	Items	Type / Model	Technical Specifications (minimum requirement)
	wattage of luminaire: ≤ 40 W	LCTLRNE-40-CDL(1X4) (Crompton)	- 6500 K Luminous flux: ≥ 4000 lumen Colour Rendering Index (CRI): 80

xx)	Outdoor / Street light type LED Light fittings (with Secondary Lense). [IP 66] System wattage of luminaire: ≤ 120 W	LSTP-120-CDL-M (Crompton)	Housing: Pressure die-cast Aluminium body. Drivers should have in-built protection against high voltage surge, open circuit & short circuit. Correlated Colour Temperature (CCT): 5000 - 6500 K
		A10057MI00 (LT)	Luminous flux: ≥ 12000 lumen Power Factor: >0.95 Colour Rendering Index (CRI): 70 Side entry mounting for 50 mm - 62 mm OD pipe bracket.
xxi)	Outdoor / Street light type LED Light fittings. [IP 66] System wattage of luminaire: ≤ 30 W	BRP046 LED 30 CW MR S1 PSU GR-(Philips)	Housing: Pressure die-cast Aluminium body. Drivers should have in-built protection against high voltage surge, open circuit & short circuit.
		LSTS-30-CDL-M (Wipro)	Correlated Colour Temperature (CCT): 5000 - 6500 K
		A02557M0X0 (LT)	Luminous flux: ≥ 3000 lumen Power Factor: >0.95 Colour Rendering Index (CRI): 70 Side entry mounting for 38 mm - 50 mm OD pipe bracket.

9.1 Supply of Solid State (Static) Energy Meter (Watt-hour Meter), conforms to IS 13779 (with latest amendment) [ ISI marked ], with following specifications::

i) **01 Phase, 2 Wire, Direct Connected :**

Rated Voltage (Vref)	::	240 V – Phase to Neutral
Voltage Variation	::	70% to 120% of reference voltage i.e. 240 V
Rated Current	::	Basic Current [Ib]: 5 A, Maximum Current [ I <sub>max</sub> ]: 30 A.
Rated Frequency	::	50 Hz
Frequency Variation	::	± 5%
Accuracy Class	::	1.0
Display	::	Backlit LCD display
Enclosure		Non-metallic - Engineering plastic /Poly-Carbonate. The meter shall have a reasonably dust / moisture-proof case. The case should be sealed by the manufacturer in such a way that the internal parts of the meter would be accessible only after breaking such distinctive seal. The meter should be suitable for fixing on wall (Base Mounting).
Terminal Cover	::	Terminal block shall be provided with a Terminal Cover. The terminals, their fixing screws and the insulated compartment housing them should be enclosed by a cover with a provision for sealing.
Ingress Protection	::	IP 51
Applicable Standard	::	IS: 13779 (with latest amendment)
Other Details	::	The meter should be capable of recording & displaying energy in Wh or kWh for single-phase two wire A.C. loads.

9.2 Supply of 1.1 kV grade, Cross Linked Polyethylene (XLPE) Cable (FRLS) :

The cables should be generally compliance with IS 7098 (Part-1) [with latest amendment, if any] with following specifications:

- (i) Conductor materials: Aluminium.
- (ii) Shape: Stranded Compacted Shaped.
- (iii) Insulation: Cross Linked Polyethylene (XLPE).
- (iv) Armouring: Single layer, Galvanised steel flat strip.

9.3 Laying of 1.1 kV grade, XLPE Cable:

- 6.1.1 Before laying of Cables, cable routes should be checked properly to avoid interference with the existing cables, structures, heat sources, drains, pipelines, etc., as far as possible and minor adjustments to be

done to suit the field conditions, wherever deemed necessary, without any extra cost. Considering above, cable routes should be carefully measured to ascertain the exact requirement of cable for a particular feeder. Sufficient lengths to be kept for the final connections of the cables to the terminal of the equipment.

- 6.1.2 Programme for Road Crossing, wherever required (for Casing Pipe laying etc.), shall have to be coordinated through the authorized representative of the Dy. Manager (P&E), TSEM, in advance, for having due clearance of Road Blockage. Such clearance will be given within 7 (seven) days from the date of receipt of request from the Contractor.
- 6.1.3 In case of Road or Rail Crossing, cable should be laid inside the pipes. Where cables enter into pipe sleeves, adequate beds of sand should be given so that the cables do not slack and get damaged by pipe ends.
- 6.1.4 When cables pass through foundation walls, or other underground structures, if necessary, ducts or opening shall have to be provided, by the Contractor. However, shall it become necessary to cut holes in the existing foundations or structures, the contractor should obtain permission from Dy. Manager (P&E), TSEM, before cutting is done. Cutting, if necessary and mending good of any cut portion should be done by contractor at his cost and risk.
- 6.1.5 Cables should be handled carefully during installation to prevent mechanical injury to the cables. During laying of cables, Cable Drum Lifting Jacks, sufficient number of Cable Rollers and other materials, etc. as necessary, should be used to avoid any mechanical injury to the cables. Ends of cables leaving trenches should be coiled and provided with a protective pipe or cover, until such times, the final terminations to the equipment are completed.
- 6.1.6 After laying of the cables in the trench and before placement of protective covering, an Insulation Test should be carried out for each length of cable in presence of the representative of Sr. Dy. Manager (P&E), HDC. After re-filling the trench with soil, rammed and levelled, Insulation Test of the cable should also be carried out in presence of the representative of Sr. Dy. Manager (P&E), HDC.
- 6.1.7 All cables should be identified close to their termination points by Cable Number / Equipment Number, which will be punched on Aluminium strip/ PVC Strip (approx. 2 mm thick) securely fastened to the cable and wrapped around it. Type and size of the cable also to be punched on the straps.
- 6.1.8 Each underground cable should be provided with Identification Tags (made of PVC/ Aluminium) securely fastened every 30 m of its underground length, with at least one tag at each end before the cable enters the ground. Concrete Cable Markers are to be placed at cable joint locations and “L.T. Cable Joint” should be engraved on the said Cable Markers.

6.1.9 All temporary ends of cables must be protected against dirt and moisture to prevent damage to the insulation. For this purpose, ends of the cables should be covered with PVC insulating tape.

6.1.10 Where splices or terminations are required in circuit, it is required to measure insulation resistance of each length of cable before splicing and / or terminating. It is required to repeat measurement after splices and / or terminations are completed. Before energizing, the insulation resistance of every cable shall have to be measured.

It is required to measure the Insulation Resistance of directly buried cables, before Cable Trenches are back-filled.

6.1.11 Directly buried cables should be laid in underground Cable Trenches to be excavated by the Contractor. Width of the Cable Trench should be such that all cables shall be correctly spaced and arranged. The 1.1 kV grade cables should be laid in trenches at a depth of 0.75 m.

6.1.12 **Placing & Protection of cables in trench:**

For 3 ½ C cable, above 35 mm<sup>2</sup>

Before cables are placed, the bottom of the trenches should be filled with a layer (approx. 100 mm) of sand at the bottom of the trench, duly levelled. After laying of the cable on the sand bed bricks should be placed at both sides of the cable. The cable inside the brick walls to be covered with sand at the bottom of the trench, up to the height of wall. Bricks should also be used as protective top covering and to be placed on the top of the protective brick walls [16 no. bricks would be used in 01 m cable laying work]. Rest of the trench should be re-filled with soil, rammed and levelled.

For 3 ½ C / 4C cable, upto 35 mm<sup>2</sup>

Before cables are placed, the bottom of the trenches should be filled with a layer (approx. 100 mm) of sand at the bottom of the trench, duly levelled. After laying of the cable on the sand bed the same is to be covered with sand and bricks should also be used as protective top covering [8 no. bricks would be used in 01 m cable laying work]. Rest of the trench should be re-filled with soil, rammed and levelled.

6.1.13 The bricks, to be used for protective top covering & side wall, should be of class designation 10.0 (as per latest version of IS: 1077, 1992). Dimensions [non-modular size (230 mm. x 110 mm. x 70 mm)] and tolerances of the bricks should be as per latest version of IS: 1077, 1992.

6.1.14 Cable Termination of 1.1 kV grade, XLPE Cable :

Termination of XLPE aluminium conductor power cables shall be by means of compression method using brass compression gland and aluminium lugs [including supply of materials, as required], tapes,

anticorrosive paste & jointing materials.

6.1.15 Straight Through cable jointing of 1.1 kV grade, XLPE Cable:

Additional length (loop) of 5 m (approx.) cable should be kept at each end of the

cables near the straight through cable joints. It is required to measure the insulation resistances of the cables before and after straight through cable jointing. This scope includes supply of all required materials including complete straight through cable jointing kits, with ferrules and all other accessories.

Heat Shrinkable type straight through Cable Jointing Kits, suitable for XLPE insulated 1.1 kV grade LT cables, are to be used.

6.1.16 GI Pipe laying work:

Laying of Galvanized Mild Steel Tubes should be done wherever necessary, such as at Road Crossing, Railway Crossing, Drains, Culverts or any similar concrete structure, etc. The scope includes cutting of road, railway crossing, excavating of trenches, etc. Re-filling the trench after laying the Galvanized Mild Steel Tubes to be done by the Contractor. The Galvanized Mild Steel Tubes may also be laid by boring process, as per site requirement.

The depth of the laying should be matched with the underground cable trench, as far as possible.

Cutting of Galvanized Pipe to required length and threading, bending, jointing by Socket as required, supply and fixing of support clamps / brackets should be under the scope of Contractor.

6.2 Earthing :

- a) Earth Electrode should be made of 3 m long Medium Galvanised Mild Steel Tubes (as per IS:1239) of nominal bore 50 mm. The tube shall have perforated hole of 10 mm dia at a cross distance of 75 mm. 260 mm long G.I. Plate of size 50 mm X 6 mm (with 4 nos. 10 mm dia tap hole, bend to shape of pipe) to be welded at 100 mm below the top of tube for connection of Earth Strip. G.I. Funnel / Cap to be provided on top of the tube. Two earth electrodes are to be interconnection to from one earth grid, which will provide a common ground for Street Light Poles / Feeder Pillar Boxes.

Earth Electrode to be driven in the Earth Pit filled up with alternate layer of Charcoal and Salt. Earth Pit should be provided with suitable size Brick Masonry Inspection Chamber with removable RCC Cover (75 mm thick) with handle.

Excavation of earth, back filling, masonry work and interconnection of earthing electrodes (with 50 mm X 6 mm G.I. Flat), shall be within the Scope of Work.

- b) All connection of the G. I. Flats / G. I. Wire, with the Earth Electrode & Earth Grid, should be made by welding & welding point should be covered by black Bitumen Paint.
- c) Entire earthing should be done in accordance with the relevant Indian Standard (IS) issued by Bureau of Indian Standard, Indian Electricity Rules & Act and Code of Practice. Colour of insulation of the copper wire,

to be used for earthing purpose, will have to be preferably GREEN.

All necessary work (including supply of aforesaid cable & other required materials), for providing aforesaid earthing connection, is under the scope of the Contractor.

### 6.3 List of Approved Manufacturers /Makes /Brands:

<b>Sl. No.</b>	<b>Items</b>	<b>Name of the Manufactures</b>
<b>i)</b>	MCB, RCCB, MCB Type Isolator, MCCB, Contactor, Time Switch, Switch – Disconnecter – Fuse Unit	L&T / LEGRAND / SIEMENS / SCHNEIDER / ABB
<b>ii)</b>	Automatic Power Source Transfer Module	L&T / LEGRAND / SIEMENS / SCHNEIDER / ABB/ HAVELLS
<b>iii)</b>	MCCB / MCB Enclosure or Distribution Board	L&T / LEGRAND / SIEMENS / SCHNEIDER / ABB/HENSEL
<b>iv)</b>	PVC insulated (1.1 kV grade) single / multi-core copper flexible conductor.	FINOLEX / HAVELLS / RPG / UNIFLEX / MESCAB / RR KABLES/ POLYCAB
<b>v)</b>	Telephone cable, LAN Cable	FINOLEX / HAVELLS / MESCAB / POLYCAB
<b>vi)</b>	Indoor Light Fittings and Lamps (Excluding decorative Bracket Light)	PHILIPS / WIPRO / BAJAJ / CROMPTON / LIGHTING TECHNOLOGY (LT)
<b>vii)</b>	Outdoor Light Fittings	PHILIPS / WIPRO / BAJAJ / CROMPTON / LIGHTING TECHNOLOGY (LT)/ SIMOCO
<b>viii)</b>	Piano Type Switch, Socket, Ceiling Rose, Electronic Type Fan Regulator, etc.	ANCHOR / LEGRAND/ /PHILIPS/ PANASONIC/ ABB
<b>ix)</b>	Ceiling Fan, Exhaust Fan, Wall Fan, Pedestal Fan, etc.	CROMPTON / ORIENT / HAVELLS / ALMONARD
<b>x)</b>	Calling Bell	CONA / MAX / ANCHOR
<b>xi)</b>	LT Cable (1.1 kV grade) PVC / XLPE .	HAVELLS / FINOLEX / GLOSTER / UNISTAR / RPG / APAR INDUSTRIES (UNIFLEX) / POLYCAB / KEI / RR Kable
<b>xii)</b>	Cable Jointing Kit	BIRLA 3M / RAYCHEM /

<b>Sl. No.</b>	<b>Items</b>	<b>Name of the Manufactures</b>
		DENSON
<b>xiii)</b>	Cable Lug & Cable Gland	DOWELLS / JHONSON / RAYCHEM
<b>xiv)</b>	Digital Multifunction Meter, Energy Meter [ac Static Watthour Meters]	CONZERV / SECURE / L&T
<b>xv)</b>	Electric Water Heater (Geyser)	VENUS / BAJAJ / RACOLD / HAVELLS / CROMPTON
<b>xvi)</b>	Outdoor Type PVC Box	HENSEL / SINTEX/ ABB
<b>xvii)</b>	Paints	ASIAN / BERGER / NEROLAC / SHALIMAR / DULUX

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## **8. PREAMBLE TO THE BILL OF QUANTITIES**

**E- Tender for Section A: construction of new boundary wall in east side of the HDI building complex, modification of existing gates including other appurtenant civil works and providing & laying of paver blocks at Haldia Dock Institute Complex, HDC, Haldia.**

**Section B: Interior renovation including waterproofing works and other appurtenant civil works of Haldia Dock Institute Building, HDC, Haldia.**

**Section C: Construction of a new toilet complex including approach pathway at Haldia Dock Institute Complex, HDC, Haldia.**

**Section D: Electrical works for upcoming New Toilet Complex at HDI premises & up-gradation of Electrical Installations (including internal wiring & electrical appliances) of HDI Building and adjacent area at Residential Zone of Haldia Dock Complex, SMP, Kolkata.**

8.1 The Bill of Quantities must be read with the General Conditions of Contract, the Special Conditions of Contract and the Particular Specifications of Work and the Bidder is deemed to have examined the above documents and to have thoroughly familiarise himself with the total scope of work and its mode of execution.

8.2 The quantities given in the Bill of Quantities are approximate only and are given to provide a common basis for tendering. Payment will be made according to the quantities of each item of work actually carried out at the accepted rates as per Order Letter. The measurements of each item of work shall be measured jointly by the Engineer or his Representative.

8.3 This being a percentage rate tender, the Bidder shall quote his rates as percentage above / below / at par with the estimated amount put to tender **on line** based on his own analysis .

The Tender Price thus established would be taken for comparative evaluation of E-Tenderers.

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## 8. BILL OF QUANTITIES

**E- Tender for Section A: construction of new boundary wall in east side of the HDI building complex, modification of existing gates including other appurtenant civil works and providing & laying of paver blocks at Haldia Dock Institute Complex, HDC, Haldia.**

**Section B: Interior renovation including waterproofing works and other appurtenant civil works of Haldia Dock Institute Building, HDC, Haldia.**

**Section C: Construction of a new toilet complex including approach pathway at Haldia Dock Institute Complex, HDC, Haldia.**

**Section D: Electrical works for upcoming New Toilet Complex at HDI premises & up-gradation of Electrical Installations (including internal wiring & electrical appliances) of HDI Building and adjacent area at Residential Zone of Haldia Dock Complex, SMP, Kolkata.**

### Section-A

It. No	Description of work	Quantity	Rate(Rs)	Unit	Amount (Rs.P)
1	Earth work in <b>excavation</b> in foundation in any soil including disposal of surplus excavated earth within a lead a lead of 100 M include for bailing our subsoil or rain water, if required, all complete and as directed.	200	₹ 120.46	Cu.M.	₹ 24,092.54
2	<b>Cleaning compound</b> premises of shurb, plants, jungles etc. by cutting and removing as directed (Specified permission of Engineer - in - charge prior to execution will be necessary).[ Payment to be made on area cleaned]	1000	₹ 11.11	Sq.M	₹ 11,110.00
3	Earth work in filling in foundation trenches or plinth with good earth, in layers not exceeding 150 mm.including watering and ramming etc. layer by laye rcomplete. (Payment to be made on the basis of measurement of finished quantity of work) (a) With earth obtained from excavation of foundation.	170	₹ 77.54	Cu.M.	₹ 13,181.80
4	Labour for taking out old soling edging including removing debris	1000	₹ 9.91	Sq.M.	₹ 9,908.10
5	Dismantling and scrapping out all types of masonry, stone ravel s from pavement and removing the same as directed within a lead of 75 m.	60	₹ 451.47	Cu.M.	₹ 27,088.20
6	Dismantle cement <b>brick work</b> by carefully chiselling out as directed. Include for cleaning the serviceable bricks including stacking for reusing and disposal of unserviceable materials, withina lead of 75 m. etc. all complete and as directed.	30	₹ 451.47	Cu.M.	₹ 13,544.10

## BOQ-2

It. No	Description of work	Quantity	Rate(Rs)	Unit	Amount (Rs.P)
7	Dismantling the <b>cement concrete</b> (of any thickness) by carefully chiseling out. Include for removing the debris within a lead of 75 m etc. all complete and as directed.				
	Plane cement concrete	180	₹ 948.39	Cu.M.	₹ 170,710.20
8	Labour for lowering and stacking after dismantling in parts R.S. joists, channels, angles, tees, plates, pipes etc.complete as directed and return to RZ Store.	30	₹ 198.97	Qntl	₹ 5,969.10
9	Labour for lowering and stacking after dismantling in parts R.S. joists, channels, angles, tees, plates etc. complete as directed.	2	₹ 198.97	Qntl	₹ 397.94
10	Labour for taking out (from fencing) line of wire (galvanised, strand, barbed) by drawing the same out through holes in the body of the post or through holes formed by fixed staples.	230	₹ 0.97	Mtr.	₹ 223.01
11	Brick soling with picked jhama bricks including preparation of bed as necessary with brick joints properly filled in and packed with powdered earth and including necessary cushion of similar material below the soling (and in between layers when more than one layer is used) completes as per direction. Single brick flat soling (thickness 75 mm.)	100	₹ 339.36	Sq. M.	₹ 33,936.00
12	Ordinary <b>cement concrete ( mix 1:2:4)</b> with graded stone chips ( 20 mm nominal size ) excluding shuttering and reinforcement, if any in ground floor as per relevant IS code	50	₹ 5,371.18	Cu.M.	₹ 268,559.00
13	Providing and building of <b>brick work</b> in cement and sand mortar 1:6 (1 cement : 6 coarse sand) with 1st class bricks include for chiseling out/cutting teeth etc. in existing walls and floors for proper bonding etc. all complete and as directed.				
	a] in foundation, plinth & drains	60	₹ 5,249.98	Cu.M	₹ 314,998.80

## BOQ-3

It. No	Description of work	Quantity	Rate(Rs)	Unit	Amount (Rs.P)
14	Providing and building of <b>brick work</b> in cement and sand mortar 1:4 ( 1 cement : 4 coarse sand) with 1st class bricks include for chiseling out/cutting teeth etc. in existing walls and floors for proper bonding etc. all complete and as directed.				
	b] super structure up to 4th. Floor	30	₹ 5,745.89	Cu.M	₹ 172,376.70
15	Provide and build <b>125 mm brick work</b> with 1st class bricks in cement mortar 4:1 (4 sand:1 cement) include for chiselling out/cutting teeth etc. in existing walls and floors for proper bonding, all complete and as directed.	225	₹ 719.12	Sq.M	₹ 161,802.00
16	Provide and lay cement plaster (1:4) with medium coarse sand to surfaces of walls and columns etc. include for necessary curing etc. all complete and as directed. 20 mm thick cement plaster (1:4) (to match with existing plastered surface) all complete and as directed.	1500	₹ 180.79	Sq.M	₹ 271,185.00
17	Providing and laying of <b>neat cement punning</b> over the plastered surfaces of dado, skirting and floor surfaces etc. all complete and as directed.	600	₹ 34.34	Sq.M	₹ 20,604.00
18	Hire and labour charges for <b>shuttering</b> for building works for floor, beam, lintels, chajjas etc.all complete and as directed.	450	₹ 327.24	Sq.M	₹ 147,258.00
19	Remove debris / building rubbish / concrete lumps / earth / gravels etc. from scattered area of Haldia Township, Residential Zone, within a lead of 5 K.M. with proper site cleaning, loading, unloading, and levelling at the disposal site etc., all complete and as directed. (Payment will be made after deduction of 16% of volume as voids.)	400	₹ 167.66	Cu.m.	₹ 67,064.00
20	Supply M.S.flat, sq.bar, angle, tee etc. for M.S. grill, gate, chain link fencing etc.(Measurement will be given after fixing of supplied material).	3000	₹ 74.08	Kg	₹ 222,250.50

## BOQ-4

It. No	Description of work	Quantity	Rate(Rs)	Unit	Amount (Rs.P)
21	<b>Cutting</b> requisite length or shape departmental R.S. joists, channels, angles, tees, plates etc., all complete and as directed.	10000	₹ 8.08	Sq.Cm	₹ 80,800.00
22	<b>Welding</b> in M.S. structural work gas or electric etc., all complete and as directed. (Continuous weld)	5000	₹ 9.09	Per Cm. Run	₹ 45,450.00
23	Supplying, fitting, fixing 50 mm. x 50 mm. x 8 g Chain link fencing of approved quality with R.C.C posts wooden posts or iron posts by means of galvanised "C" clips to grid of horizontal strands of galvanized high tensile spring steel wire of 12 S.W.G which have to be tensioned and fixed to the vertical posts by means of galvanized special clips, bolts and nuts etc. (The rate is exclusive of the cost of posts)	50	₹ 418.14	Sq.m.	₹ 20,907.00
24	Supplying, fitting galvanised 3 ply 12 gauge / 4 points line of barbed wire in fencing (holes already made in the body of the post) or fixed by staples tightening and fixing the wires in taut condition with straining bolts including the cost of cutting and of lapping joints in the wire as necessary but excluding the cost of galvanised staples, straining bolt and binding wire where necessary.	3000	₹ 27.55	Mtr.	₹ 82,650.00
25	60 mm thick interlocking designer coloured decorative concrete paver block M- 35 grade for light-traffic zone, commercial & office complex, tourist resort as per IS: 15658-2006 (over 20-40 mm medium sand bed on 250mm thk WBM/ WMM base course & 250 mm thk bound granular / granular sub-base course including cost of sand for sand bed but excluding cost of base, sub-base course & subgrade preparation.)	1450	₹ 1,351.38	Sq.M.	₹ 1,959,501.00

## BOQ-5

It. No	Description of work	Quantity	Rate(Rs)	Unit	Amount (Rs.P)
26	Provide, spread & fill the excavated area with Zone - III Brown sand , in layers of thickness not exceeding 200 mm including consolidation by sprinkling of water and rolling by mechanically operated Vibro- Roller of appropriate capacity , all inclusive as directed by the Engineer.	500	₹ 937.09	CuM	₹ 468,545.00
27	M.S/ Tor <b>reinforcement</b> (TATA/SAIL/RVNL or equivalent) including supply of rods, initial straightening and removal of loose rust, cutting to requisite length, bending, shaping and place in correct position, including welding if necessary.	600	₹ 56.07	Kg	₹ 33,639.06
28	Provide and apply Primer of one coat on steel or other metal surface with synthetic oil bound primer of approved quality include for scrapping, brushing, sand papering and cleaning the surfaces smooth before application of paint all complete and as directed.	100	₹ 29.29	Sq.m.	₹ 2,929.00
29	Provide and lay <b>paint on old steel work with two coats</b> of approved synthetic enamel paint of first quality of any shed other than white including scrapping, brushing and cleaning the surfaces if necessary all complete as directed.	100	₹ 79.79	Sq.m.	₹ 7,979.00
30	Providing and applying of 1 (one) coat of Asian / Berger/Nero lac/ ICI paint make primer suitable for exterior acrylic emulsion paint on old/new concrete/plastered surfaces to receive asian/ Bergr/ nero lac/ICI paint exterior acrylic emulsion paint including scaffolding scraping wire brushing and preparing the surfaces thoroughly as per manufacturers specification upto 4 th. floor level etc. all complete and as directed.	2700	₹ 31.71	Sq.M	₹ 85,627.80

## BOQ-6

<b>It. No</b>	<b>Description of work</b>	<b>Quantity</b>	<b>Rate(Rs)</b>	<b>Unit</b>	<b>Amount (Rs.P)</b>
<b>31</b>	Providing and applying two coats of protective Decorative exterior premium 100% ACRYLIC EMULSION PAINT TWO COAT OF Asian/ Berger / Nero Icac / ICI paint make on old/ new concrete / plastered surfaces including scaffolding, scraping, wire bruising and preparing the surfaces thoroughly all complete as per manufactures specification.	2700	₹ 84.84	Sq.M	₹ 229,068.00
	<b>TOTAL = Rs.</b>				<b>₹ 49,73,354.85</b>

**[Indian Rupees: Forty Nine Lakh Seventy Three Thousand Three Hundred Fifty Four and Paise Eight Five Only]**

**Section-B**

## BOQ-7

It. No.	Description of item.	Quantity	Rate (Rs. P.)	Unit	Amount (Rs. P.)
1	Earth work in excavation in foundation in any soil including disposal of surplus excavated earth within a lead of 100m include for bailing out subsoil or rain water, if required, all complete and as directed.	2.00	₹ 120.46	Cu.M.	₹ 240.93
2	Taking out of damaged/bulged out cement plaster or skirting of any thickness including raking out of joints and cleans the surface for plastering and dispose off rubbish within a lead of 75 m. Also include for making scaffolding from G.L. to 2nd floor level etc., all complete and as directed.	1030.00	₹ 19.19	Sq.M.	₹ 19,765.70
3	Dismantling cement brick work by carefully chiseling out as directed. Include for cleaning the serviceable bricks including stacking for reusing and disposal of unserviceable materials within a lead of 75 m. etc., all complete and as directed.	5.00	₹ 451.47	Cu.M.	₹ 2,257.35
4	Dismantling the cement concrete (of any thickness) by carefully chiseling out. Include for removing the debris within a lead of 75 m. etc., all complete and as directed.	4.00	₹ 948.39	Cu.M.	₹ 3,793.56
5	Dismantling all types of reinforced cement concrete works (of any thickness) by carefully chiseling out. Include for removing the debris within a lead of 75 m. etc., all complete and as directed.	4.00	₹ 1,975.56	Cu.M.	₹ 7,902.24
6	Chisel out existing damaged cement concrete I.P.S. / Mosaic / Terrazo / Tiles floor surfaces (of any thickness), square up the edges, clean the surfaces thoroughly for laying new concrete. Include for removing the debris within a lead of 100 metres, all complete and as directed.	180.00	₹ 50.50	Sq.M.	₹ 9,090.00



## BOQ-8

It. No.	Description of item.	Quantity	Rate (Rs. P.)	Unit	Amount (Rs. P.)
7	Providing and building of brick work in foundation and plinth etc. in cement and sand mortar 1:6 (1 cement : 6 coarse sand) with 1st class bricks, include for chiseling out/cutting teeth etc. in existing walls and floors for proper bonding etc., all complete and as directed.	2.00	₹ 5,249.98	Cu.M.	₹ 10,499.96
8	Providing and building of <b>brick work</b> in cement and sand mortar 1:4 ( 1 cement : 4 coarse sand) with 1st class bricks include for chiseling out/cutting teeth etc. in existing walls and floors for proper bonding etc. all complete and as directed.				
	(super structure up to 4th. Floor)	3.00	₹ 5,745.89	Cu.M	₹ 17,237.67
9	Provide and build <b>125 mm brick work</b> with 1st class bricks in cement mortar 4:1 (4 sand:1 cement) include for chiselling out/cutting teeth etc. in existing walls and floors for proper bonding, all complete and as directed.	40.00	₹ 719.12	Sq.M	₹ 28,764.80
10	Providing and laying of ordinary cement concrete Mix <b>(1:2:4)</b> with graded stone chips excluding shuttering and reinforcement for slope correction for roof treatment as per direction of E/I	18.00	₹ 5,371.18	Cu. M.	₹ 96,681.24
11	Cleaning of exposed reinforcement preferably upto full diameter by wire brush, applying two coats of polymer based rust removing compound left for 24 hours, removing the coating and then applying two coats of polymer modified anti corrosive protective coating formulated to inhibit the corrosion of reinforcement as per manufacturers specification.	2.00	₹ 792.85	Sq.M.	₹ 1,585.70

## BOQ-9

It. No.	Description of item.	Quantity	Rate (Rs. P.)	Unit	Amount (Rs. P.)
12	Providing and laying of ordinary cement concrete Mix (1:1.5:3) with graded stone chips excluding shuttering and reinforcement, if any, upto 3rd floor level as per relevant IS code with Pakur variety stone chips including application of epoxy based reactive joining agent for joining the old concrete with fresh concrete to be applied within manufacturer's specified time as per manufacturers specification (0.4 kg / sqm of concrete surface) etc., all complete and as directed.	4.00	₹ 5,930.72	Cu. M.	₹ 23,722.88
13	M.S/ Tor reinforcement (TATA/SAIL/RVNL or equivalent) including supply of rods, initial straightening and removal of loose rust, cutting to requisite length, bending, shaping and place in correct position, including welding if necessary.	200.00	₹ 56.07	Kg	₹ 11,213.02
14	Providing and laying of cement plaster (1:4) with medium coarse sand to interior surfaces of walls and columns etc. Include for necessary curing etc. all complete and as directed. avg. 20 mm. thick cement plaster(1:4) (to match with existing plastered surface) upto 2nd floor level etc., all complete and as directed.	650.00	₹ 180.79	Sq.M.	₹ 117,513.50
15	Providing and laying of 10 mm. thick cement plaster (1:4) with medium coarse sand at the ceiling surface Include for necessary scaffolding & curing upto 2nd floor level etc., all complete as directed.	280.00	₹ 126.25	Sq.M.	₹ 35,350.00
16	Providing and laying of cement plaster to exterior surfaces 15 mm to 20 mm thick with (1:4) cement plaster with approved water proofing compound. Include for making scaffolding for working up to 2nd floor level and necessary curing etc., all complete and as directed.	100.00	₹ 168.67	Sq.M.	₹ 16,867.00
17	Providing and laying of neat cement punning over the plastered surfaces of dado, skirting and floor surfaces upto 2nd floor level etc., all complete and as directed.	50.00	₹ 34.34	Sq.M.	₹ 1,717.00

## BOQ-10

It. No.	Description of item.	Quantity	Rate (Rs. P.)	Unit	Amount (Rs. P.)
18	Supplying and laying true to line and level vitrified tiles (double charged Premium quality) of approved brand ( Size not less than 600 mm. X 600 mm. X 10 mm. thick) in floor and skirting etc set in 20mm sand cement mortar (1:4) and 2mm thick cement slurry back side of tiles using cement @ 2.91kg/sqm or using _olymerized adhesive ( 6mm thick layer applied directly over finished artificial stone floor /mosaic etc. without any backing course) laid vafter application slurry using 1.75 kg of cement per sqm below mortar only ,joints grouted with admixture of white cement and colouring pigment to mat with colour of tiles/epoxy grout materials of approved make as directed and removal of wax coating of top surface of tiles with warm water and polishing the tiles using soft and dry cloth upto mirror finish complete including the cost of materials, labour and all other incidental charges complete true to manufacturer's specification and direction of Engineer-in charge, fix with _olymerized Adhesive (6mm thick ) & epoxy grouting materials for filling joints including spacer – 2mm. as required.	250.00	₹ 1,702.86	Sq.M.	₹ 425,715.00
	(Payment will be made on the basis of finished area done and accepted).				
19	Supplying, fitting and fixing Marble Slab/tile of 15 to 18 mm thickness in floor, lobby, stair, landing & treads etc. over 20 mm (av.) thck base of Cement mortar (1:2) laid with white cement slurry @ 4.4 kg/Sq.m before placing marble & jointed with white cement slurry @ 2.0 kg/Sq.m with necessary pigments including grinding and Granite polishing as per direction of Engineering –in –Charge in all Floor. (White cement and Pigment to be supplied by the Agency)	100.00	₹ 1,694.78	Sq.M.	₹ 169,478.00
	With Makrana plain pink / Adranga Pink / Garbh Gulabi / Udaypur pink / Udaypur Green / Black Bhaslana				

## BOQ-11

It. No.	Description of item.	Quantity	Rate (Rs. P.)	Unit	Amount (Rs. P.)
20	Supplying, fitting and fixing 1st quality Ceramic tiles of any size having mat finish in walls and floors including borders to match with the existing work set in sand cement mortar (4:1) and 2mm thick cement slurry back side of tiles using cement @ 2.91kg/sqm or using polymerised adhesive as required and finishing the joints with white cement mixed with colouring oxide of required match colour of tiles, fix with polymerised Adhesive and Epoxy grouting materials including spacer 2mm. All complete and as directed.				
	(Payment will be made on the basis of finished area done and accepted).				
	(i) Floor	15.00	₹ 745.38	Sq.M.	₹ 11,180.70
	(ii) Wall	60.00	₹ 765.58	Sq.M.	₹ 45,934.80
21	Supplying, fitting and fixing Stainless Steel railing consist of 38mm dia and 900mm height vertical balustrade at every two alternative steps, 50mm dia top rail, 3 (three) nos 19mm dia horizontal Strainless steel pipe and base/cover plate with Strainless	20.00	₹ 7,753.77	Mtr.	₹ 155,075.40
22	Supply M.S.flat, sq.bar, angle, tee etc. for M.S. grill, gate, chain link fencing etc.(Measurement will be given after fixing of supplied material).	50.00	₹ 74.08	Kg	₹ 3,704.18
23	Cutting requisite length or shape departmental R.S. Joists, channels, angles, tees, plates etc., all complete and as directed.	1000.00	₹ 8.08	Sq.Cm.	₹ 8,080.00
24	Welding in M.S. structural work gas or electric etc., all complete and as directed. (Continuous weld).	2000.00	₹ 9.09	Cm Run	₹ 18,180.00
25	Taking out of carefully broken glass panes from the window shutter and fix with <b>3 mm thick plane sheet glass</b> with teak wood bead etc., all complete and as directed.	15.00	₹ 786.79	Sq.M.	₹ 11,801.85
26	Cleaning and removing paint mark from glass pane with spirit and removing strains etc.	10.00	₹ 17.17	Sq.M.	₹ 171.70

## BOQ-12

It. No.	Description of item.	Quantity	Rate (Rs. P.)	Unit	Amount (Rs. P.)
27	Take out damaged door / window or cupboard frames with shutter and refixing the same after necessary repairing / replacement of frames with new sal wood etc and mending good the damages complete. (Payment for concrete, brick work and wood will be made separately.)	20.00	₹ 120.19	Sq.M	₹ 2,403.80
28	Provide & supply Local sal wood frames in door and window frame fitted and fixed in position complete including a protective coat of painting at the contact surface of the frame exluding cost of concrete, Iron Butt Hinges and M.S clamps. (The quantum should be correted upto three decimals).	0.50	₹ 73,683.54	Cu.M.	₹ 36,841.77
29	Provide & fix <b>MS clamp made of 40 mm x 6 mm ms flat &amp; up to 125 mm long</b> or as required at site to the door, window, cupboard frame, all complete and as directed.	10.00	₹ 38.38	Each	₹ 383.80
30	Take out & refix damaged door, window shutters dismantling by parts (for repairs replacement of the damaged parts) reassembling and refitting, rehangng same with old fittings but new screws as necessary (replacement of the damaged parts will be paid separately).	10.00	₹ 127.26	Sq.M	₹ 1,272.60
31	Renewing with <b>Champ wood panel, rails, styles</b> etc for doors, windows or cupboard shutter (payment will be made on new work only), all complete and as directed.				
	i) 12 mm thick panel (finished)	5.00	₹ 926.17	Sq.M	₹ 4,630.85
	ii) 19 mm thick panel (finished)	10.00	₹ 1,129.18	Sq.M	₹ 11,291.80
	iii) Styles & rails 25 mm thick (Approx match with existing work)	5.00	₹ 1,689.73	Sq.M	₹ 8,448.65
	iv) Styles & rails 35 mm thick (Approx match with existing work)	10.00	₹ 2,199.78	Sq.M	₹ 21,997.80
32	Provide & fix approved quality <b>oxidised butt hinges (Mowjee make)</b> as per requirement, all complete and as directed.				

## BOQ-13

It. No.	Description of item.	Quantity	Rate (Rs. P.)	Unit	Amount (Rs. P.)
	i) 100 mm x 75 mm x 3.5 mm	20.00	₹ 66.66	Each	₹ 1,333.20
	ii) 75 mm x 47 mm x 1.70 mm	20.00	₹ 31.31	Each	₹ 626.20
33	Supplying, fitting and fixing of <b>anodised aluminium tower bolt</b> of approved quality manufacture from extruded section confirming to IS 204/74 fitted and fixed with cadmium plated screw etc., all complete and as directed.				
	a) 75 mm. long x 10 mm. dia. bolt.	20.00	₹ 48.48	Each	₹ 969.60
	b) 150 mm long x 10 mm dia bolt .	20.00	₹ 63.63	Each	₹ 1,272.60
34	Supply, fit and fix of approved quality <b>oxidised iron hasp bolt</b> of complete (oxidised ) <b>250 mm long 16 mm dia rod</b> with centre bolt and round fitting, all complete and as directed.	10.00	₹ 160.59	Each	₹ 1,605.90
35	Supply, fit and fix anodised aluminium D - type handle of size 125 mm. X 12 mm. dia rod with continuous plate base ( Hexagonal / Round rod ) of approved quality manufactured from extruded section conforming to I.S. specification ( IS 230/72 ) etc., all complete & as directed.	20.00	₹ 104.03	Each	₹ 2,080.60
36	Supply, fit and fix in position <b>iron door ring 50 mm. Dia.etc.</b> , all complete & as directed.	10.00	₹ 17.17	Each	₹ 171.70
37	Supplying, fitting and fixing <b>125mm long wooden buffer block</b> position excluding the cost hinge and other fittings.	10.00	₹ 51.51	Each	₹ 515.10
38	Supplying , fitting and fixing <b>150mm long anodised aluminium catch hook with eye fitted</b> and fixed to shutter and chowkat complete of best quality.	4.00	₹ 37.37	Each	₹ 149.48
39	Easing door & window shutter.	20.00	₹ 17.17	Each	₹ 343.40

## BOQ-14

It. No.	Description of item.	Quantity	Rate (Rs. P.)	Unit	Amount (Rs. P.)
40	Supply & fix <b>‘Godrej’ mortice lock chromium plated</b> with latch and keys 4 levers, including fitting and fixing complete.	5.00	₹ 1,091.81	Each	₹ 5,459.05
41	Providing and applying of one coat of ready mixed <b>pink or grey primer</b> of approved brand and manufacture to the doors and windows after necessary preparation of surfaces etc., all complete and as directed.	160.00	₹ 38.38	Sq.M.	₹ 6,140.80
42	Providing and applying of one coat of ready mixed <b>zinc chromate yellow primer</b> of approved brand and manufacture to the grills and gates etc. include for scrapping, brushing, sand papering and cleaning the surfaces smooth before application of primer etc.	100.00	₹ 29.29	Sq.M.	₹ 2,929.00
43	Providing and applying of paint on old/new wood works with two coats of approved synthetic enamel paint (first quality) of any shed other than white. Include for scrapping and preparation of surface with brushing and cleaning before painting upto 3 <sup>rd</sup> floor level etc., all complete and as directed.	160.00	₹ 81.81	Sq.M.	₹ 13,089.60
44	Providing and applying of paint on old steel work with two coats of approved synthetic enamel paint of first quality of any shed other than white including scrapping, brushing and cleaning the surfaces if necessary upto 3 <sup>rd</sup> floor level etc., all complete and as directed.	100.00	₹ 79.79	Sq.M.	₹ 7,979.00
45	Providing and applying <b>French polishing</b> to wood work including preparing surface (ordinary gloss) on old French polished surface including complete removal of the oldpolish.	20.00	₹ 543.38	Sq.M.	₹ 10,867.60
46	Cleaning the walls and ceiling scraping by <b>Sanding machine</b> , sand papering and smoothening down the surface including putting as directed .	1060.00	₹ 17.17	Sq.M.	₹ 18,200.20

## BOQ-15

It. No.	Description of item.	Quantity	Rate (Rs. P.)	Unit	Amount (Rs. P.)
47	Provide and lay white cement base wall putty 1.5 mm thick approximate to smooth finish. Include for removing damaged plaster of Paris where necessary etc. all complete & as directed.	1600.00	₹ 123.22	Sq.M.	₹ 197,152.00
48	Provide and apply Acrylic Distemper/ Acrylic Primer (solvent based interior grade) of Asian paint or equivalent as per manufacture specification of approved brand and manufacture of required shades to give an even shade. Allow for cleaning the surfaces thoroughly and repairing of scratches etc. wherever required before application of paint etc., all complete & as directed.				
(a)	One coat of Acrylic Primer.	1800.00	₹ 31.11	Sq.M.	₹ 55,994.40
(b)	Two coats of Acrylic Distemper	1800.00	₹ 49.49	Sq.M.	₹ 89,082.00
49	Providing and applying of 1 (one) coat of cement based water proof paint on new surface, of approved brand of required shades to give an even shade on all exterior surfaces of buildings and repairing the uneven surfaces by snowcem putty etc. and making scaffolding upto 4 th. floor level. Include for scrapping of marks, green moss, loose particles and preparing the base by sand papering before application of the cement based paint etc. all complete and as directed.	100.00	₹ 34.34	Sq.M.	₹ 3,434.00
50	Providing and applying of 1 (one) coat of Asian / Berger /Nero lac / ICI paint make primer suitable for exterior acrylic emulsion paint on old / new concrete / plastered surfaces to receive Asian / Berger / Nero lac / ICI paint exterior acrylic emulsion paint including scaffolding,scrapping,wire brushing and preparing the surfaces thoroughly as per manufacturers specification upto 4 th. floor level etc., all complete and as directed.	100.00	₹ 31.71	Sq.M.	₹ 3,171.40



## BOQ-16

It. No.	Description of item.	Quantity	Rate (Rs. P.)	Unit	Amount (Rs. P.)
51	Providing and applying of protective Decorative exterior premium 100% acrylic emulsion paint two coats of Asian / Berger / Nero lac / ICI paint make on old / new concrete / plastered surfaces including scaffolding, scraping, wire bruising and preparing the surfaces thoroughly all complete as per manufactures specification.	100.00	₹ 84.84	Sq.M.	₹ 8,484.00
52	Provide and apply <b>damp proof coating (Two Coats)</b> on the surface of the walls before plastering with approved chemical ( <b>Sika Top -77 or equivalent</b> ) and as per direction and satisfaction of EIC.	250.00	₹ 71.69	Sq.M.	₹ 17,921.81
53	Taking out old damaged tarfelt or any other waterproofing membrane from the roof, parapet etc. preparing the roof surfaces by removing all spoils, blisters, moss etc. from the working site and disposal of the same beyond the compound and cleaning the site in all respect as per direction of Engineer-in-Charge.	330.00	₹ 12.12	Sq.M.	₹ 3,999.60
54	Application of non toxic polyurethane modified acrylic based single component, solvent-free, cold applied, polyurethane modified elastomeric waterproofing membrane with excellent UV resistant capacity in two coats along with a priming coat and reinforced with 20gsm Geotextile fleece as per manufacturer's specification, in the following method: After preparing the surface by cleaning and repairing roof cracks by cement and sand mortar (1:4), if any, apply two coats along with a priming coat and reinforced with 20gsm Geotextile fleece. The product has to complies with the requirement a liad out in ASTMD6083-97a.	330.00	₹ 434.72	Sq.M.	₹ 143,457.60
55	Supplying, fitting and fixing approved brand <b>CP 2-way bib Cock - 15 mm</b> , supplied, fitted and fixed. (Code No.5041 & Model - FLORENTINE of JAQUAR or similar brand).	4.00	₹ 1,281.69	Each	₹ 5,126.76

## BOQ-17

It. No.	Description of item.	Quantity	Rate (Rs. P.)	Unit	Amount (Rs. P.)
56	Providing and fixing of CP Pillar Cock Super Deluxe with Aerator - 15 mm. (Equivalent to Code No. 508 & Model No. Tropical / Sumthing Special of ESSCO or similar brand) approved quality in position including taking out damaged Pillar Cock and return to store etc., all complete and as directed.	3.00	₹ 597.92	Each	₹ 1,793.76
57	Supplying, fitting and fixing <b>Chromium plated concealed Stop Cock heavy duty</b> (Equivalent to Code No. 514(A) & Model - Tropical / Sumthing Special of ESSCO or similar brand).	6.00	₹ 674.00	Each	₹ 4,044.00
58	Supplying, fitting and fixing <b>Chromium plated Stop Cock heavy duty</b> (Equivalent to Code No. 513(A) & 513(B) & Model - Tropical / Sumthing Special of ESSCO or similar brand).	8.00	₹ 497.93	Each	₹ 3,983.44
59	Supplying,fitting and fixing approved brand <b>CP Wall Mixture</b> without spout but with provision for connnection to Telephone Shower and exposed pipe for Overhead shower (Equivalent to Code No. 5215 & Model - FLORENTINE of JAQUAR or similar brand).	2.00	₹ 2,482.58	Each	₹ 4,965.16
60	Supplying,fitting and fixing approved brand <b>32 mm dia. P.V.C. waste pipe</b> , with PVC coupling at one end fitted with necessary clamps.	3.00	₹ 75.75	Each	₹ 227.25
61	Supply, fit and fix C.P over brass <b>25 mm dia. and 600 mm long towel rail</b> with two brackete etc all complete & as directed.	3.00	₹ 434.30	Each	₹ 1,302.90
62	Supplying, fitting and fixing <b>10 litre P.V.C. low-down cistern</b> conforming to I.S. specification with P.V.C. fittings complete,C.I. brackets including two coats of painting to bracket etc.	2.00	₹ 1,025.15	Each	₹ 2,050.30
63	Supplying,fitting and fixing <b>32 mm dia. Polythene Flush Pipe Flush Pipe</b> of approved make with necessary fixing materials and clamps complete	2.00	₹ 156.55	Each	₹ 313.10

## BOQ-18

It. No.	Description of item.	Quantity	Rate (Rs. P.)	Unit	Amount (Rs. P.)
64	Supplying, fitting and fixing approved brand <b>P.V.C. CONNECTOR</b> 600 long white flexible, with both ends coupling with heavy brass C.P. nut, 15 mm dia.	4.00	₹ 108.07	Each	₹ 432.28
65	Provide and fix <b>75 mm. dia. PTMT overhead shower</b> (Prayag or equivalent) including taking out damaged shower and return to store etc., all complete & as directed.	2.00	₹ 180.79	Each	₹ 361.58
66	Cutting chase upto 125 X 150 mm and subsequent mending of damages in brick wall	16.00	₹ 88.88	Mtr	₹ 1,422.08
67	Labour for dismantling 15mm/20mm G.I pipe with fittings.	10.00	₹ 6.06	Mtr	₹ 60.60
68	Supply,fit,fix <b>PVC pipes</b> of approved make (Oriplast / Supreme or equivalent) conforming to ASTM D- 1785 of <b>medium duty (Schedule 80)</b> including all necessary accessories specials i.e socket, band,tee, elbow , union, cross, nipple, long screw, reducing socke				
	<b>a) For exposed work</b>				
	i) 15 mm. dia medium quality.	7.00	₹ 102.01	Mtr	₹ 714.07
	ii) 20 mm. dia medium quality .	5.00	₹ 130.29	Mtr	₹ 651.45
	iii) 25 mm.dia medium quality (Schedule 80).	10.00	₹ 178.77	Mtr	₹ 1,787.70
	iv)40 mm.dia medium quality (Schedule 80).	5.00	₹ 294.92	Mtr	₹ 1,474.60
	<b>b) For concealed work</b>				
	i) 15 mm. dia medium quality .	10.00	₹ 138.37	Mtr	₹ 1,383.70
	ii) 20 mm. dia medium quality .	12.00	₹ 159.58	Mtr	₹ 1,914.96
69	Supplying, fitting and fixing <b>G.I. pipes</b> of TATA make with all necessary accessories, specials viz. socket, bend, tee, union, cross, elbo, nipple, longscrow, reducing socket, reducing tee, short piece etc. fitted with holder bats clamps, including cutting				
	i) 15 mm. dia.	4.00	₹ 240.38	Mtr	₹ 961.52

## BOQ-19

It. No.	Description of item.	Quantity	Rate (Rs. P.)	Unit	Amount (Rs. P.)
	ii) 20 mm. dia.	4.00	₹ 268.66	Mtr	₹ 1,074.64
70	Dismantling H.C.I pipe with fittings including melting lead caulked joints 100 mm dia.	10.00	₹ 64.64	Mtr	₹ 646.40
71	Supply,fit and fix single socked 110 mm. dia. of 3.00 M long UPVC pipe granules as specified in IS 13592-1992 as down pipe and fitted with all necessary clamps nails including making holes in walls.	15.00	₹ 294.92	Mtr	₹ 4,423.80
72	Supply, fit & fix UPVC bend /shoe 110 mm dia. etc., all complete & as directed.	3.00	₹ 148.47	Each	₹ 445.41
73	Supply, fit & fix UPVC Door Bend 110 mm dia. all complete & as directed.	3.00	₹ 121.20	Each	₹ 363.60
74	Supply, fit & fix UPVC Cowl 110 mm dia. all complete & as directed.	3.00	₹ 33.33	Each	₹ 99.99
75	Supply, fit & fix UPVC Door Tee 110 mm dia. all complete & as directed.	3.00	₹ 196.95	Each	₹ 590.85
76	Supply, fit & fix UPVC Tee 110 mm dia. all complete & as directed.	3.00	₹ 85.85	Each	₹ 257.55
77	Supplying fitting & fixing approved brand glass shelf of size 600mm.X 125mm. Ordinary type with 5.5mm sheet glass & aluminium guard rails complete.	3.00	₹ 484.80	Each.	₹ 1,454.40
78	Supplying fitting & fixing approved brand best quality indian make mirror 5.5mm thick with silvering as per IS specifications supported on fibre glass frame of any colour, frame size 550mm X 400mm complete.	3.00	₹ 619.13	Each.	₹ 1,857.39
79	Supplying, fitting and fixing E.W.C. in white glazed vitreous chinaware of approved make complete in position with necessary bolts, nuts etc. with 'P' trap.	1.00	₹ 1,435.21	Each.	₹ 1,435.21

## BOQ-20

It. No.	Description of item.	Quantity	Rate (Rs. P.)	Unit	Amount (Rs. P.)
80	Supplying, fitting and fixing <b>Plastic (hallow type) white Closet seat</b> of approved make with lid and C.P. hinges, rubber buffer and brass screws complete.	1.00	₹ 383.80	Each.	₹ 383.80
81	Dismantling Indian W.C./ European type water closet including taking out base concrete as necessary.	2.00	₹ 45.45	Each.	₹ 90.90
82	Supplying, fitting and fixing <b>Shallow water closet Indian pattern (I.P.W.C.)</b> of approved make in white vitreous chinaware in position (excluding cost of concrete for fixing) 510 mm long.	1.00	₹ 909.00	Each	₹ 909.00
83	Supplying, fitting and fixing <b>Foot rest for water closet of size 275 mm X 125 mm</b> with Porcelain of approved make.	1.00	₹ 216.14	Each Pair	₹ 216.14
84	Supplying, fitting and fixing best quality approved make Wash basin vitreous china of approved make (without fittings) of size 550mm X 400mm, supplied,fitted and fixed in position on 75mm X 75 mm X 75 mm wood blocks and C.I. brackets including two coats of painting of C.I. brackets.	3.00	₹ 1,396.83	Each	₹ 4,190.49
85	Supplying, fitting and fixing best quality <b>flatback Urinal (half stall urinal) in white vitreous chinaware of approved make of size 470mm X 280mm x 340mm in position with brass screws on 75mm X 75 mm X 75 mm wooden blocks complete.</b>	3.00	₹ 954.45	Each	₹ 2,863.35
86	Supplying, fitting and fixing approved brand Hand Shower (Health Faucet) with 1mtr Flexible Tube with Wall Hook(Equivalent to Code No.573 & Model -ALLIED of Jaquar or similar).	2.00	₹ 1,263.51	Each	₹ 2,527.02
87	Supplying, fitting and fixing <b>100 mm C.I. round grating.</b>	4.00	₹ 62.62	Each.	₹ 250.48
88	Supplying,fitting and fixing <b>UPVC plain P-Trap(110mm dia.)</b>	4.00	₹ 283.81	Each.	₹ 1,135.24

## BOQ-21

<b>It. No.</b>	<b>Description of item.</b>	<b>Quantity</b>	<b>Rate (Rs. P.)</b>	<b>Unit</b>	<b>Amount (Rs. P.)</b>
89	Remove debris / building rubbish / concrete lumps / earth etc. from scattered area of Haldia Township, Residential Zone, within a lead of 2 K.M. with proper site cleaning, loading, unloading, and levelling at the disposal site etc., all complete and as directed. (Payment will be made after deduction of 16% of volume as voids.)	50.00	₹ 167.66	Cu.M.	₹ 8,383.00
Total = Rs.					<b>₹ 20,05,794.95</b>

**[Indian Rupees: Twenty Lakh Five Thousand Seven Hundred Ninety Four and Paise Nine Five Only]**

**Section-C**

## BOQ-22

It No	Description of work	Quantity	Rate	Unit	Amount (Rs. P.)
1	<b>Earth work</b> in excavation in foundation in any soil including disposal of surplus excavated earth within a lead of 100 M include for bailing out subsoil or rain water, if required, all complete and as directed.	200	₹ 120.46	Cu.M.	₹ 24,092.54
2	<b>Earthwork in filling</b> in foundation trenches or plinth with good earth obtained from excavation of foundation in layers including watering and raming etc. complete.	50	₹ 78.32	Cu.M.	₹ 3,915.77
3	Filling in foundation trenches or plinth by silver sand in layers not exceeding 150mm as directed and consolidated the same by thorough saturation with water, ramming complete including the cost of supply of sand (payment to be made on measurement of finished quantity.)	30	₹ 548.95	Cu.M.	₹ 16,468.35
4	Supplying and laying <b>Polythene Sheet</b> (150 gm / sq.m.) below flooring or in foundation or in foundation trenches.	250	₹ 24.24	Sq.M.	₹ 6,060.00
5	Provide and lay <b>cement concrete (1:2:4)</b> (with 20 mm down stone chips) in foundation and plinth protection etc. in proper line and level to superior finish, all complete and as directed.	65	₹ 5,371.18	Cu.M.	₹ 349,126.70
6	Provide and build brick work in foundation and plinth etc. in cement and sand mortar 1:6 (1 cement : 6 coarse sand) with Ist class bricks, include for chiselling out/cutting teeth etc. in existing walls and floors for proper bonding, all complete and as directed.	37	₹ 5,249.98	Cu.M.	₹ 194,249.26
7	25 mm thick <b>D.P.C.</b> with cement concrete (1:1.5:3) with graded stone aggregate 10 mm nominal size and admixture of water proofing compound as per manufacturer's specification.	14	₹ 187.86	Sq.M.	₹ 2,630.04

## BOQ-23

It. No.	Description of item.	Quantity	Rate (Rs. P.)	Unit	Amount (Rs. P.)
8	Providing and building of <b>brick work</b> in cement and sand mortar 1:4 ( 1 cement : 4 coarse sand) with 1st class bricks include for chiseling out/cutting teeth etc. in existing walls and floors for proper bonding etc. all complete and as directed.	45	₹ 5,745.89	Cu.M.	₹ 258,565.05
9	Provide and build <b>125 mm. thick brick work</b> with 1st class bricks in cement mortar 4:1 (4 sand :1 cement ) include for chiselling out / cutting teeth etc. in existing walls and floors for proper bonding, all complete and as directed.	75	₹ 719.12	Sq.M.	₹ 53,934.00
10	Providing and laying of ordinary cement concrete Mix (1:1.5:3) with graded stone chips excluding shuttering and reinforcement, if any, upto 3rd floor level as per relevant IS code with Pakur variety stone chips including application of epoxy based reactive joining agent for joining the old concrete with fresh concrete to be applied within manufacturer's specified time as per manufacturers specification (0.4 kg / sqm of concrete surface) etc., all complete and as directed.	16	₹ 5,930.72	Cu.M.	₹ 94,891.52
11	Hire and labour charges for <b>shuttering</b> for building works for floor, beam, lintels, chajjas etc for the above item.	350	₹ 327.24	Sq.M.	₹ 114,534.00
12	M.S./Tor <b>reinforcement</b> (TATA/SAIL/RINL or equivalent) including supply of rods, initial straightening and removal of loose rust, cutting to requisite length, bending, shaping and place in correct position, including welding if necy. for the above item etc.,	1500	₹ 56.07	Kg.	₹ 84,097.65



## BOQ-24

It. No.	Description of item.	Quantity	Rate (Rs. P.)	Unit	Amount (Rs. P.)
13	Providing and laying of cement plaster (1:4) with medium coarse sand to interior surfaces of walls and columns etc. Include for necessary curing etc. all complete and as directed. avg. 20 mm. thick cement plaster(1:4) (to match with existing plastered surface) upto 2nd floor level etc., all complete and as directed.	400	₹ 180.79	Sq.M.	₹ 72,316.00
14	Providing and laying of 10 mm. thick cement plaster (1:4) with medium coarse sand at the ceiling surface Include for necessary scaffolding & curing upto 2nd floor level etc., all complete as directed.	100.00	₹ 126.25	Sq.M.	₹ 12,625.00
15	Providing and laying of cement plaster to exterior surfaces 15 mm to 20 mm thick with (1:4) cement plaster with approved water proofing compound. Include for making scaffolding for working up to 2nd floor level and necessary curing etc., all complete and as directed.	300.00	₹ 168.67	Sq.M.	₹ 50,601.00
16	Providing and laying of neat cement punning over the plastered surfaces of dado, skirting and floor surfaces upto 2nd floor level etc., all complete and as directed.	110.00	₹ 34.34	Sq.M.	₹ 3,777.40
17	Provide and lay cement 35 mm. thick concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone chips of 12.5 mm nominal size) in panels as directed with topping made with ordinary cement including smooth finishing and rounding off corners including roughening of concrete surface and application of cement slurry before pouring works using cement @ 1.75 kg / sqm all complete including all materials and labours.	15	₹ 327.24	Sq.M.	₹ 4,908.60
18	<b>M.S ornamental grill</b> of approved design joints continuously welded with MS flats and bars etc	0.3	₹ 7,310.38	Qntl.	₹ 2,193.11

## BOQ-25

It. No.	Description of item.	Quantity	Rate (Rs. P.)	Unit	Amount (Rs. P.)
19	Collapsible gate with 40mm x 6mm Tee as top and bottom guide rail, 20mm x 10mm x 2 mm vertical channels 100 mm apart in fully stretched position 20 mm x 5 mm M.S.flats as collapsible branching properly rivetted and washered including 38 mm steel roller including locking arrangements, fitted and fixed in position with lugs set in cement concrete and including cutting necessary holes, chasing etc. in walls, floor etc. and making good damages complete.	3.6	₹ 3,436.02	Sq.M.	₹ 12,369.67
20	Supplying, fitting and fixing 1st quality Ceramic tiles of any size having mat finish in walls and floors including borders to match with the existing work set in sand cement mortar (4:1) and 2mm thick cement slurry back side of tiles using cement @ 2.91kg/sqm or using polymerised adhesive as required and finishing the joints with white cement mixed with colouring oxide of required match colour of tiles, fix with polymerised Adhesive and Epoxy grouting materials including spacer 2mm. All complete and as directed.				
	(i) Floor	60.00	₹ 745.38	Sq.M.	₹ 44,722.80
	(ii) Wall	150.00	₹ 765.58	Sq.M.	₹ 114,837.00
21	Provide & supply Local <b>sal wood frames</b> fitted and fixed in position including coal tarring on the contact surfaces of the frame etc., all complete & as directed.	0.25	₹ 73,683.54	Cu.M.	₹ 18,420.89
22	<b>Panel shutter of door &amp; Window</b> , as per design (each panel consisting of single plank without joint), including fitting and fixing the same in position but excluding the cost of hinge and other fittings.				
(i)	With 35 mm shutters and 19 mm thick panel of size 30 to 45 cm by Sishu, Gamar, champ or Hallak.	5	₹ 2,816.89	Sq.M.	₹ 14,084.45

## BOQ-26

It. No.	Description of item.	Quantity	Rate (Rs. P.)	Unit	Amount (Rs. P.)
(ii)	With 25 mm shutters and 12 mm thick panel of size 30 to 45 cm by Sishu, Gamar, champ or Hallak.	5	₹ 2,170.49	Sq.M.	₹ 10,852.45
23	Provide & fix <b>MS clamp</b> made of 40 mm x 6 mm x125 mm long ms flat or as required at site to the door, window, cupboard frame etc.,all complete & as directed.	50	₹ 38.38	Each	₹ 1,919.00
24	Supplying, fitting and fixing of <b>anodised aluminium tower bolt</b> of approved quality manufacture from extruded section confirming to IS 204/74 fitted and fixed with cadmium plated screw etc., all complete and as directed.				
	a) 75 mm. long x 10 mm. dia. bolt.	20.00	₹ 48.48	Each	₹ 969.60
	b) 150 mm long x 10 mm dia bolt .	6.00	₹ 63.63	Each	₹ 381.78
25	Anodised aluminium <b>Sliding bolt/ Aldrop</b> (250 mm X 16 mm dia.bolt) of approved quality manufactured from extrud section fitted and fixed complete.	2	₹ 235.33	Each	₹ 470.66
26	Anodised <b>aluminum butt hinges</b> of approved manufactured from extruded section conforming I:S 205/66 fitted and fixed with cadmium plated screw.				
(a)	100 x 75 x 33.5 mm ( For Door)	8	₹ 66.66	Each	₹ 533.28
(b)	75 x 47 x 1.7 mm ( For Window)	40	₹ 31.31	Each	₹ 1,252.40
27	Iron/Aluminium <b>door ring</b> ( 50 mm dia.) of approved quality fitted and fixed with nut and washer complete.	25	₹ 17.17	Each	₹ 429.25
28	Supplying , fitting and fixing <b>150mm long anodised aluminium catch hook with eye fitted</b> and fixed to shutter and chowkat complete of best quality.	15.00	₹ 37.37	Each	₹ 560.55

## BOQ-27

It. No.	Description of item.	Quantity	Rate (Rs. P.)	Unit	Amount (Rs. P.)
29	Supplying fitting and fixing in position approved P.V.C. door frame (Matt finish) made of extruded P.V.C. multichamber hollow section having dimentions 60 mm x 50 mm x 2 mm, horizontal section will be joined with vertical section by galvanised steel screws after inserting two number steel brackets as reinforcement making suitable space for placing hinges, one steel tube 40 mm x 20 mm x 1.2 mm will be inserted on one full vertical side of the frame (hinge side) as reinforcement, the frame will then be fixed in opening with the help of P.V.C. expandable fastner / wooden guiters and galvanised steel screws including cost of all materials and labour, hire charges of tools and appliances, carriage of all materials, taxes and all other incidental charges complete.	60	₹ 281.79	Mtr	₹ 16,907.40
30	Supply, fit and fix P.V.C. factory made single piece non decorative extruded PVC profiles door shutter (mat/ plain finish) 30 mm thick door shutter ( solid ) made out of single piece extruded solid PVC profile . The style & rails shall be of size 75 mm X				
	and braket of size 200 x 75 mm / welded at each corner. Single piece extruded solid PVC lock rail of size 100 mm x 30 mm with a wall thickness 5 mm & 15 mm integrally extruded in the middle of the lockrail & fixed with styles with the help of PVC solvent	20	₹ 2,371.48	Sq.M	₹ 47,429.60
31	Provide and apply one coat of ready mixed <b>pink or grey primer</b> of approved brand and manufacture to the <b>doors and windows</b> after necessary preparation of surfaces etc., all complete & as directed.	15	₹ 38.38	Sq.M.	₹ 575.70

## BOQ-28

It. No.	Description of item.	Quantity	Rate (Rs. P.)	Unit	Amount (Rs. P.)
32	Provide and apply one coat of ready mixed zinc chromate yellow primer of approved brand and manufacture to the grills and gates etc. include for scrapping, brushing, sand papering and cleaning the surfaces smooth before application of primer etc., all complete & as directed.	12	₹ 29.29	Sq.M.	₹ 351.48
33	Provide and lay <b>paint on old/new wood works</b> with approved synthetic enamel paint (first quality). Include for scrapping and preparation of surface with brushing and cleaning before painting etc., all complete & as directed.				
	ii) Two coats.	15	₹ 81.81	Sq.M.	₹ 1,227.15
34	Provide and lay <b>paint on steel work</b> with two coats of approved synthetic enamel paint of first quality including scrapping, brushing and cleaning the surfaces if necessary etc. all complete & as directed.	12	₹ 79.79	Sq.M.	₹ 957.48
35	Supply, fit, fix CPVC (Chlorinated Polyvinyl Chloride) pipes of approved make (Oriplast / Supreme or equivalent) conforming to IS-15778; 2007, with all necessary accessories specials i.e socket, band, tee, elbow, union, cross, nipple, long screw, reducing socket, reducing tee, short piece etc. fitted with holder bats clamp, including cutting pipes, making threads, fitting, fixing, complete in all respect in any position above ground and upto 1st floor level. (Payment will be made on the centre line measurement of total pipe line including all specials, no separate payment will be made for accessories, specials as required to complete the work).				
	(a) For <b>Exposed works</b> CPVC Pipes Class-I,SDR-11				
	i) 32 mm.	40	₹ 285.83	Mtr.	₹ 11,433.20

## BOQ-29

It. No.	Description of item.	Quantity	Rate (Rs. P.)	Unit	Amount (Rs. P.)
	(b) For <b>Concealed works</b> CPVC Pipes Class-I,SDR-11				
	i) 15 mm.	20	₹ 141.40	Mtr.	₹ 2,828.00
	ii) 20 mm..	50	₹ 172.71	Mtr.	₹ 8,635.50
	iii) 25 mm.	15	₹ 237.35	Mtr.	₹ 3,560.25
36	Supplying, fitting and fixing 25 m dia brass ferrule ncluding connection with P.V.C.pipe of approved make upto 450 mm long with lumbing joint,brass overC.P. coupling at both ends, with cap and lining complete in all respect,including cutting trenches in all sorts of soil and filling up trenches as perdirection of the Engineer-in-charge.	1	₹ 1,843.25	Each	₹ 1,843.25
37	Supply fitting and fixing <b>25 mm dia gunmetal wheel valve</b> of approved brand and make tested to 21 kg per sq.cm.(for water line only).	1	₹ 785.78	Each	₹ 785.78
38	Supplying, fitting and fixing <b>chromium plated concealed bib cock 15 mm</b> (equivalent to code no. 512 & model - tropical / sumthing special of ESSCO or similar brand).	12	₹ 665.59	Each	₹ 7,987.08
39	Supplying, fitting and fixing <b>chromium plated concealed stop cock 15 mm</b> (equivalent to code no. 514(A) & model - tropical / sumthing special of ESSCO or similar brand).	13	₹ 680.74	Each	₹ 8,849.62
40	Provide and fix 75 mm. dia. <b>PTMT overhead shower</b> (Prayag or equivalent) including taking out damaged shower and return to store etc., all complete & as directed.	4	₹ 180.79	Each	₹ 723.16
41	Supplying, fitting and fixing best quality approved make Wash basin vitreous china of approved make (without fittings) of size 550mm X 400mm, supplied,fitted and fixed in position on 75mm X 75 mm X 75 mm wood blocks and C.I. brackets including two coats of painting of C.I. brackets.				
	i) Size- 550 mm. x 400 mm.	4	₹ 1,396.83	Each	₹ 5,587.32

## BOQ-30

It. No.	Description of item.	Quantity	Rate (Rs. P.)	Unit	Amount (Rs. P.)
42	Supply, fit and fix in position <b>European type water closet</b> in white glazed vitreous chinaware of approved make with all necessary bolts and nuts P / S trap etc. all complete as directed.	4	₹ 1,435.21	Each	₹ 5,740.84
43	Supply, fit and fix in position <b>European type water closet seat</b> (Hollow type) of approved make and made with white colour plastic with lid C.P. hinges rubber buffer, brass screws bolts and nuts etc. all complete as directed.	4	₹ 383.80	Each	₹ 1,535.20
44	Supply, fit and fix in position <b>Shallow water closet Indian pattern (I.P.W.C.)</b> of approved make in white vitreous chinaware of 580 mm long. etc. all complete as directed.	3	₹ 946.37	Each	₹ 2,839.11
45	Supply, fit and fix 32 mm. dia. polythene <b>flush pipe</b> of approved make with necessary fixing materials and clamps etc., all complete & as directed.	6	₹ 156.55	Each	₹ 939.30
46	Supply, fit and fix 10 litres capacity <b>PVC Low - down cistern</b> conforming to IS specification with PVC fittings completed, CI bucket including two coats of painting to bracket etc. all complete & as directed.	8	₹ 1,025.15	Each	₹ 8,201.20
47	Supplying, fitting and fixing <b>Hand shower (Health Faucet)</b> with 1 mtr. Flexible Tube with Wall Hook (Equivalent to Code No- 573 & Model- ALLIED of JAQUAR or similar brand).	4	₹ 1,263.51	Each	₹ 5,054.04
48	Supplying fitting and fixing <b>Flat back Urinal</b> (470 mm x 280 mm x 340 mm) in white vitreous Chinaware of approved make in position with brass screws on 75 x 75 x 75 mm wooden blocks complete.	2	₹ 954.45	Each	₹ 1,908.90

## BOQ-31

It. No.	Description of item.	Quantity	Rate (Rs. P.)	Unit	Amount (Rs. P.)
49	Supplying, fitting and fixing approved brand 32 mm dia. <b>PVC waste pipe with PVC coupling for urinal</b> at one end fitted with necessary clamps.	2	₹ 156.55	Each	₹ 313.10
50	Supplying, fitting and fixing <b>Squatting plate</b> with integral flushing in white vitreous chinaware (450 mm x 350 mm) of approved make in cement concrete (6:3:1) with jhama chips complete. (Payment of concrete will be paid seperately).	1	₹ 889.81	Each	₹ 889.81
51	Supplying, fitting and fixing <b>Half round white vitreous chinaware channel</b> (600 mm x 100 mm) with or without outlet as required set in cement concrete (6:3:1) with jhama chips complete. (Payment of concrete will be paid seperately).	8	₹ 470.66	Each	₹ 3,765.28
52	Supply, fit & fix aluminium domocal <b>gratings</b> 150 mm. dia.	15	₹ 74.74	Each	₹ 1,121.10
53	Supplying fitting & fixing approved brand best quality <b>indian make mirror 5.5mm thick</b> with silvering as per IS specifications supported on fibre glass frame of any colour, frame size <b>550mm X 400mm</b> complete.	5	₹ 619.13	Each	₹ 3,095.65
54	Supply, fit and fix C.P. over brass 25 mm dia. and 600 mm. long <b>towel rail</b> with two brackets etc., all complete & as directed.	12	₹ 434.30	Each	₹ 5,211.60
55	Supply, hoist & place in position, fit and fix <b>1500 litre capacity of P.V.C. water storage tank</b> of approved quality with closed top with lid (black ) multilayer 1500 liters capacity of Sintex / Rounak or equivalent brand etc. all complete & as directed.	1	₹ 7,997.18	Each	₹ 7,997.18



## BOQ-32

It. No.	Description of item.	Quantity	Rate (Rs. P.)	Unit	Amount (Rs. P.)
56	Supply, fit and fix single socketed 110 mm. dia. and 160 mm dia of 3.00 M long UPVC pipe (Type B) granules as specified in IS 13592-1992 as down pipe and fitted with all necessary clamps nails including making holes in walls, floors etc. and cutting trenches in any soil, through masonry concrete structures etc. if necessary and mending good damages including jointing with jointing materials and taking out damaged pipe and returned to HDC Store upto 4th floor level etc. all complete as directed.				
(a)	110 mm dia.	50	₹ 352.49	Mtr	₹ 17,624.50
(b)	160 mm dia.	35	₹ 618.12	Mtr	₹ 21,634.20
57	Supply, fit & fix <b>UPVC (B Type) fittings</b> conforming to IS- 13592-1992 all complete as directed.				
(i)	110X110 P Trap	9	₹ 283.81	Each	₹ 2,554.29
(ii)	110 mm door bent (LH&RH)	20	₹ 286.84	Each	₹ 5,736.80
(iii)	160 mm Plain Tee	10	₹ 264.62	Each	₹ 2,646.20
(iv)	160 mm Door Tee	10	₹ 519.14	Each	₹ 5,191.40
(v)	160 mm Door Bent	10	₹ 372.69	Each	₹ 3,726.90
58	Supply, fit and fix <b>CP-2 way Bib Cock-15 mm</b> , (Code No- 5041 & Model- FLORENTINE of JAQUAR or similar brand).	4	₹ 1,281.69	Each	₹ 5,126.76
59	<b>Cutting chase</b> in brick wall upto 125x150 mm and subsequent mending of damages.	90	₹ 88.88	Mtr.	₹ 7,999.20
60	Supply of UPVC 110 mm dia. <b>Vent Cowl</b> conforming IS-13592-1992.	2	₹ 33.33	Each	₹ 66.66
61	Supply, fit and fix single socketed 110 mm. dia. Of 3.00 M long UPVC pipe (Type A) granules as specified in IS 13592-1992 as down pipe and fitted with all necessary clamps nails including making holes in walls, floors etc. and cutting trenches in any soil, through masonry concrete structures etc. if necessary and mending good damages including jointing with jointing materials and taking out damaged pipe and returned to HDC Store upto 4th floor level etc. all complete as directed.	10	₹ 253.51	Mtr	₹ 2,535.10

## BOQ-33

It. No.	Description of item.	Quantity	Rate (Rs. P.)	Unit	Amount (Rs. P.)
62	Supply, fit & fix <b>UPVC door bend</b> 110 mm dia. etc., all complete & as directed.	4	₹ 148.47	Each	₹ 593.88
63	Supply, fit & fix <b>UPVC shoe</b> 110 mm dia. etc., all complete & as directed.	4	₹ 112.11	Each	₹ 448.44
64	Provide and apply Acrylic Distemper/ Acrylic Primer (solvent based interior grade) of Asian paint or equivalent as per manufacture specification of approved brand and manufacture of required shades to give an even shade. Allow for cleaning the surfaces thoroughly and repairing of scratches etc. wherever required before application of paint etc., all complete & as directed.				
(a)	One coat of Acrylic Primer.	300.00	₹ 31.11	Sq.M.	₹ 9,332.40
(b)	Two coats of Acrylic Distemper	300.00	₹ 49.49	Sq.M.	₹ 14,847.00
65	Applying one coat Exterior grade Acrylic primer of approved quality and brand on plastered or concrete surface old or new surface to receive acrylic exterior emulsion paint including scraping and preparing the surface thoroughly complete as per manufacturer's specification and as per direction of the EIC.	250	₹ 31.71	Sq.M.	₹ 7,928.50
66	Applying two coats of protective and decorative <b>Acrylic exterior emulsion paint</b> of approved quality, as per manufacturer's specification and as per direction of EIC.	250	₹ 67.67	Sq.M.	₹ 16,917.50

## BOQ-34

It. No.	Description of item.	Quantity	Rate (Rs. P.)	Unit	Amount (Rs. P.)
67	Constructing Inspection pit to a depth of 1.5 metre (inside) X 900 mm X 750 mm (inside) chamber, 250 mm thick 1st class brick work (1:4) in all sides over a layer of jhama brick soling and 150 mm thick cement concrete with Pakut variety stone chips (1:3:6) including necessary earth work, fitting and fixing approved type S.W. master trap, constructing masonry inwer with cement concrete (1:1.5:3) with Pakut variety stone chips, plastering inside and outside (outside upto 300 mm below G.L.) with 20 mm thick cement plastering (1:4) and neat cement punning, including supplying, fitting and fixing one 560 mm dia R.C.C. manhole cover of approved make with R.C.C. slab of 100 mm thick with cement concrete (1:1.5:3) with Pakut variety stone chips including necessary reinforcement (upto 1%) and shuttering and necessary corbelling brick work (1:4) 10 mm thick on all external surface of the top slab as directed complete in all respect and removal of surplus earth with all costs of labour and materials (excluding the cost of master trap only).	6	₹ 11,474.61	Each	₹ 68,847.66
68	Supplying & laying 20 mm <b>designer chequered tiles</b> of any shade and approved quality as per IS: 1237: 1980 laid in patterns as directed in pavement, footpath including necessary underlay 25 mm thick average cement mortar (1:3) complete in all respect with	10.00	₹ 824.16	Sqm	₹ 8,241.60

## BOQ-35

It. No.	Description of item.	Quantity	Rate (Rs. P.)	Unit	Amount (Rs. P.)
69	Supplying & laying 20 mm designer chequered tiles of any shade and approved quality as per IS: 1237: 1980 laid in patterns as directed in pavement, footpath including necessary underlay 25 mm thick average cement mortar (1:3) complete in all respect with all labour and materials [using cement slurry @ 4.4 kg/ Sq. M. at back side of tiles.]	120.00	₹ 434.72	Sq.M.	₹ 52,166.40
	Rate Analysed by PWD, West Bengal				
70	60 mm thick interlocking designer coloured decorative concrete paver block M- 35 grade for light-traffic zone,commercial & office complex,tourist resort as per IS: 15658-2006 (over 20-40 mm medium sand bed on 250mm thk WBM/ WMM base course & 250 mm thk bound gnaular /granular sub-base course including cost of sand for sand bed but excluding cost of base ,sub-base course & subgrade preparation.)	180	₹ 1,351.38	Sq.M.	₹ 243,248.40
71	Provide, spread & fill the excavated area with Zone - III Brown sand , in layers of thickness not exceeding 200 mm including consolidation by sprinkling of water and rolling by mechanically operated Vibro- Roller of appropriate capacity , all inclusive as directed by the Engineer.	50	₹ 937.09	CuM	₹ 46,854.50
72	<b>Remove debris</b> / building rubbish / concrete lumps / earth etc.	20.00	₹ 167.66	Cu.M.	₹ 3,353.20
<b>Total = Rs.</b>					<b>₹ 22,86,705.54</b>

**[Indian Rupees: Twenty Two Lakh Eighty Six Thousand Seven Hundred Five and Paise Five Four only]**

**Section-D**

## BOQ-36

Sl. No.	Description of item		Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
					Unit rate (in Rs.)	Amount (in Rs.)
Part A.	Toilet Electrification					
1	a)	Providing PVC pipe of following diameters [thickness not less than 2 mm] complete with fittings, as necessary, by cutting channel of suitable size on masonry wall / floor and fixing the pipe (approx. 18 mm below the top surface of the wall / floor) by means of iron hooks / binding wire, including mending good damages to building works.				
		i) 13 mm dia	30	RM	84.00	2,520.00
		ii) 19 mm dia	220	RM	99.00	21,780.00
		iii) 25 mm dia	30	RM	126.00	3,780.00
		iv) 30 mm dia	10	RM	126.00	1,260.00
	b)	Providing 19 mm (nominal size) PVC Rigid Conduit [medium mechanical stresses, 'FR'] on surface of the wall / ceiling, with aluminium saddles and other accessories, as required and mending good damages to building works.	80	RM	58.00	4,640.00
	c)	Providing Steel wire reinforced Flexible uPVC Conduit pipes on surface of the wall / ceiling / floor /structure, with aluminium saddles and other accessories, as required and mending good damages to building woks.				
		i) Size (ID): 40 mm	2	RM	119.00	238.00
		ii) Size (ID): 20 mm	2	RM	65.00	130.00
		d)	Providing Steel wire reinforced Flexible uPVC Conduit glands.			
		i) Size (OD): 40 mm	2	no.	28.50	57.00
		ii) Size (OD): 20 mm	2	no.	13.50	27.00

## BOQ-37

Sl. No.	Description of item		Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
					Unit rate (in Rs.)	Amount (in Rs.)
2	Supply & fixing of PVC casing-capping, including necessary PVC clips, fittings etc., on wall or ceiling and mending good damages to building woks.					
	a)	20 mm size	20	RM	36.00	720.00
	b)	25 mm size	20	RM	40.00	800.00
	c)	32 mm size	5	RM	40.00	200.00
3	Providing 'FR' PVC insulated (unsheathed), single core, 1.1 kV grade, copper (stranded) wire (ISI marked) of the following sizes, in the pre-laid PVC pipe / PVC casing-capping and making necessary connection, as required.					
	a)	2 X 1.5 mm <sup>2</sup> (as phase & neutral wires)	100	RM	39.00	3,900.00
	b)	3 X 1.5 mm <sup>2</sup> (as phase & neutral wires and as Earth Continuity Conductor)	60	RM	55.00	3,300.00
	c)	2 X 2.5 mm <sup>2</sup> (as phase & neutral wires) and 1 X 1.5 mm <sup>2</sup> (as Earth Continuity Conductor)	220	RM	74.00	16,280.00
	d)	2 X 4.0 mm <sup>2</sup> (as phase & neutral wires) and 1 X 2.5 mm <sup>2</sup> (as Earth Continuity Conductor)	10	RM	108.00	1,080.00
	e)	2 X 6.0 mm <sup>2</sup> (as phase & neutral wires) and 1 X 4.0 mm <sup>2</sup> (as Earth Continuity Conductor)	20	RM	158.00	3,160.00

## BOQ-38

Sl. No.	Description of item	Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
				Unit rate (in Rs.)	Amount (in Rs.)
4	Wiring in 'FR' PVC insulated (unsheathed), single core, 1.1 kV grade, copper (stranded) wire (ISI marked) of following sizes in 25 mm PVC casing-capping [including supply & fixing of PVC casing-capping, PVC clips, fittings, etc.] and making necessary connection, as required.				
	a) 3 X 1.5 mm <sup>2</sup> (as phase & neutral wires)	40	RM	97.00	3,880.00
	b) 2 X 2.5 mm <sup>2</sup> (as phase & neutral wires) and 1 X 1.5 mm <sup>2</sup> (as Earth Continuity Conductor)	30	RM	116.00	3,480.00
	c) 2 X 4.0 mm <sup>2</sup> (as phase & neutral wires) and 1 X 2.5 mm <sup>2</sup> (as Earth Continuity Conductor)	20	RM	150.00	3,000.00
5	<b><u>Finishing Copper Wire ends</u></b> Finishing of the ends of 1.1 kV grade, copper (stranded) wire, by socketing with pin / ring type copper sockets, insulating tapes, etc., including supplying sockets, tapes, etc., as required.				
	a) 1.5 mm <sup>2</sup>	100	set	7.00	700.00
	b) 2.5 mm <sup>2</sup>	60	set	7.00	420.00
	c) 4 mm <sup>2</sup>	20	set	8.00	160.00
	d) 6 mm <sup>2</sup>	20	set	10.00	200.00

## BOQ-39

Sl. No.	Description of item		Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
					Unit rate (in Rs.)	Amount (in Rs.)
6	Distribution wiring (alongwith earth wire) [average run 6 m], with 'FR' PVC insulated (unsheathed), single core, 1.1 kV grade, copper (stranded) wire (ISI marked), in suitable size (minimum 20 mm) PVC casing-capping [including necessary fittings / accessories], to light / fan / exhaust fan / call bell point [ including supply & fixing of 3 terminal Ceiling Rose / Batten Holder / Angle Holder /Connector, as required ], including necessary connections & making earthing attachment and mending good damages to building works. <b>[PVC casing-capping and Switch board both on surface]</b> 2 X 1.5 mm <sup>2</sup> (as phase & neutral wires) and 1 X 1.5 mm <sup>2</sup> (as Earth Continuity Conductor), per point.					
	a)	with Piano Key type switch fixed on PVC switch board ( with top cover) on wall ( including supply & fixing of switch & switch board).	2	point	749.00	1,498.00
7	Distribution wiring (alongwith earth wire) [average run 6 m], with 'FR' PVC insulated (unsheathed), single core, 1.1 kV grade, copper (stranded) wire (ISI marked), in suitable size [minimum 13 mm bore, 2 mm thick] PVC concealed pipe [complete with all accessories] embedded in wall, to light / fan / exhaust fan / call bell point [including supply & fixing of 3 terminal Ceiling Rose / Batten Holder / Angle Holder / Connector, as required], including necessary connections & making earthing attachment and mending good damages to building works. 2 X 1.5 mm <sup>2</sup> (as phase & neutral					



## BOQ-40

Sl. No.	Description of item		Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
					Unit rate (in Rs.)	Amount (in Rs.)
	wires) and 1 X 1.5 mm <sup>2</sup> (as Earth Continuity Conductor), per point.					
	a)	with Piano Key type switch fixed on CRCA sheet metal (16 SWG) switch board with Perspex / Bakelite top cover (3 mm thick) flushed on wall, (including supply & fixing of switch & switch board).	35	point	886.00	31,010.00
8	Distribution wiring (alongwith earth wire) [average run 6 m], with 'FR' PVC insulated (unsheathed), single core, 1.1 kV grade, copper (stranded) wire (ISI marked), in suitable size [minimum 13 mm bore, 2 mm thick] PVC concealed pipe [complete with all accessories] embedded in wall and in suitable size (minimum 20 mm) <b>PVC casing-capping for ceiling / beam portion only</b> , to light / fan / exhaust fan / call bell point [including supply & fixing of 3 terminal Ceiling Rose / Batten Holder / Angle Holder / Connector, as required ], including necessary connections & making earthing attachment and mending good damages to building works. 2 X 1.5 mm <sup>2</sup> (as phase & neutral wires) and 1 X 1.5 mm <sup>2</sup> (as Earth Continuity Conductor), per point.					
	a)	with Piano Key type switch fixed on CRCA sheet metal (16 SWG) switch board with Perspex / Bakelite top cover (3 mm thick) flushed on wall (including supply & fixing of switch & switch board).	6	point	957.00	5,742.00

## BOQ-41

Sl. No.	Description of item		Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
					Unit rate (in Rs.)	Amount (in Rs.)
9	Distribution wiring (alongwith earth wire) [average run 6 m], with 'FR' PVC insulated (unsheathed), single core, 1.1 kV grade, copper (stranded) wire (ISI marked), in suitable size [minimum 13 mm bore, 2 mm thick] PVC concealed pipe [complete with all accessories] embedded in wall and in suitable size pre-laid pipe for ceiling / beam portion only, to light / fan / exhaust fan / call bell point [including supply & fixing of 3 terminal Ceiling Rose / Batten Holder / Angle Holder / Connector, as required], including necessary connections & making earthing attachment and mending good damages to building works. 2 X 1.5 mm <sup>2</sup> (as phase & neutral wires) and 1 X 1.5 mm <sup>2</sup> (as Earth Continuity Conductor), per point.					
	a)	with Piano Key type switch fixed on CRCA sheet metal (16 SWG) switch board with Perspex / Bakelite top cover (3 mm thick) flushed on wall (including supply & fixing of switch & switch board).	6	point	809.00	4,854.00
10	Distribution wiring (alongwith earth wire) [average run 6 m], with 'FR' PVC insulated (unsheathed), single core, 1.1 kV grade, copper (stranded) wire (ISI marked), in suitable size (minimum 20 mm) PVC casing-capping [ including necessary fittings / accessories], to light / fan / exhaust fan / call bell point [including supply & fixing of 3 terminal Ceiling Rose / Batten Holder / Angle Holder / Connector, as required ], including necessary connections & making earthing attachment and mending good					

## BOQ-42

Sl. No.	Description of item		Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
					Unit rate (in Rs.)	Amount (in Rs.)
	damages to building works. <b>[PVC casing capping on surface and Switch board concealed]</b> 2 X 1.5 mm <sup>2</sup> (as phase & neutral wires) and 1 X 1.5 mm <sup>2</sup> (as Earth Continuity Conductor), per point.					
	a)	with Piano Key type switch fixed on CRCA sheet metal (16 SWG) switch board with Perspex / Bakelite top cover (3 mm thick) flushed on wall (including supply & fixing of switch & switch board).	2	point	845.00	1,690.00
11	Distribution wiring (alongwith earth wire) , with 'FR' PVC insulated (unsheathed), single core, 1.1 kV grade, copper (stranded) wire (ISI marked), in suitable size PVC casing-capping [including necessary fittings / accessories] , to 240 V, 6 A, 5 pin socket outlet (plug) point , including necessary connections & making earthing attachment and mending good damages to building works. <b>[PVC casing-capping and Switch board both on surface]</b> 2 X 1.5 mm <sup>2</sup> (as phase & neutral wires) and 1 X 1.5 mm <sup>2</sup> (as Earth Continuity Conductor), per point.					
	a)	including supply & fixing of 240 V, 6 A, 5 pin socket outlet (plug) & Piano Key type switch on existing PVC Switch Board (with top cover) { of light & fan } fixed on wall.	2	point	86.00	172.00

## BOQ-43

Sl. No.	Description of item	Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
				Unit rate (in Rs.)	Amount (in Rs.)
12	Distribution wiring (alongwith earth wire), with 'FR' PVC insulated (unsheathed), single core, 1.1 kV grade, copper (stranded) wire (ISI marked), in suitable size [minimum 13 mm bore, 2 mm thick] PVC concealed pipe [complete with all accessories ] embedded in wall, to 240 V, 6 A, 5 pin socket outlet (plug) point, including necessary connections & making earthing attachment and mending good damages to building works. 2 X 1.5 mm <sup>2</sup> (as phase & neutral wires) and 1 X 1.5 mm <sup>2</sup> (as Earth Continuity Conductor), per point.				
	a) including supply & fixing of 240 V, 6 A, 5 pin socket outlet (plug) & Piano Key type switch on existing CRCA sheet metal (16 SWG) switch board with Perspex / Bakelite top cover (3 mm thick) {of light & fan} flushed on wall.	8	point	86.00	688.00
13	Providing (after cutting the brick wall) CRCA sheet metal (16 SWG) JB-cum-Switch Board (having earthing attachment) of the following sizes, flushed in wall, including painting and mending good damages to building works.				
	a) 100 mm X 100 mm X 50 mm	12	no.	119.00	1,428.00
	b) 150 mm X 100 mm X 50 mm	8	no.	162.00	1,296.00
	c) 175 mm X 100 mm X 50 mm	6	no.	178.00	1,068.00
	d) 200 mm X 100 mm X 50 mm	4	no.	178.00	712.00
	e) 200 mm X 150 mm X 50 mm	4	no.	241.00	964.00
	f) 250 mm X 100 mm X 50 mm	2	no.	287.00	574.00
	g) 300 mm X 250 mm X 50 mm	2	no.	323.00	646.00
14	Providing Bakelite / Perspex top cover (3 mm thick) on the existing sheet metal JB-cum-Switch Board of following sizes, fixing by Brass screws:				

## BOQ-44

Sl. No.	Description of item		Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
					Unit rate (in Rs.)	Amount (in Rs.)
	<i>[The covers should be extended atleast 25 mm from the screw points ]</i>					
	a)	100 mm X 100 mm X 50 mm	12	no.	40.00	480.00
	b)	150 mm X 100 mm X 50 mm	8	no.	48.00	384.00
	c)	175 mm X 100 mm X 50 mm	6	no.	53.00	318.00
	d)	200 mm X 100 mm X 50 mm	4	no.	53.00	212.00
	e)	200 mm X 150 mm X 50 mm	4	no.	68.00	272.00
	f)	250 mm X 100 mm X 50 mm	2	no.	91.00	182.00
	g)	300 mm X 250 mm X 50 mm	2	no.	103.00	206.00
15	Providing 240 V, 16 A Piano Key type switch on existing sheet metal switch board having Perspex / Bakelite top cover by screws, after making housing for switch, by cutting Perspex / Bakelite top cover and making necessary connections [with 'FR' PVC insulated (unsheathed), single core, 1.1 kV grade, copper (stranded) wire (ISI marked) of size 4.0 mm <sup>2</sup> (for phase & neutral wires) & 2.5 mm <sup>2</sup> (as Earth Continuity Conductor)], as required.		2	no.	83.00	166.00
16	Providing 240 V, 16 A, 6 pin socket outlet (plug) [without switch & plug top] on existing sheet metal switch board having Perspex / Bakelite top cover by screws, after making housing for socket outlet (plug), by cutting Perspex / Bakelite top cover and making necessary connections [with 'FR' PVC insulated (unsheathed), single core, 1.1 kV grade, copper (stranded) wire (ISI marked) of sizes 4.0 mm <sup>2</sup> (for phase & neutral wires) & 2.5 mm <sup>2</sup> (as Earth Continuity Conductor)], as required.		2	no.	83.00	166.00

## BOQ-45

Sl. No.	Description of item	Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
				Unit rate (in Rs.)	Amount (in Rs.)
17	Providing 240 V, 6 A Piano Key type switch / bell push on existing sheet metal switch board having Perspex / Bakelite top cover by screws, after making housing for switch, by cutting Perspex / Bakelite top cover and making necessary connections [with suitable size 'FR' PVC insulated (unsheathed), single core, 1.1 kV grade, copper (stranded) wire (ISI marked)], as required.	6	no.	31.00	186.00
18	Providing 240 V, 6 A, 5 pin flush type socket outlet (plug) [without switch & plug top] on existing sheet metal switch board having Perspex / Bakelite top cover by screws, after making housing for socket outlet (plug), by cutting Perspex / Bakelite top cover and making necessary connections [with suitable size 'FR' PVC insulated (unsheathed), single core, 1.1 kV grade, copper (stranded) wire (ISI marked)], as required.	6	no.	41.00	246.00
19	Providing 240 V, 6 A, 2 way Piano Key type switch on existing sheet metal switch board having Perspex / Bakelite top cover by screws, after making housing for switch, by cutting Perspex / Bakelite top cover and making necessary connections [with with 'FR' PVC insulated (unsheathed), single core, 1.1 kV grade, copper (stranded) wire (ISI marked) of size 1.5 mm <sup>2</sup> ], as required.	1	no.	48.00	48.00
20	Providing 240 V, 6 A, 2 pin flush type socket outlet (plug) [ without switch & plug top] on existing sheet metal switch board having Perspex / Bakelite top cover by screws, after making housing for socket outlet (plug), by cutting Perspex / Bakelite top cover and making necessary connections [with with 'FR' PVC	2	no.	37.00	74.00

## BOQ-46

Sl. No.	Description of item	Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
				Unit rate (in Rs.)	Amount (in Rs.)
	insulated (unsheathed), single core, 1.1 kV grade, copper (stranded) wire (ISI marked) of size 1.5 mm <sup>2</sup> ], as required.				
21	Providing Socket type fan regulator (Step type) on existing sheet metal switch board having Perspex / Bakelite top cover by screws, after making housing for regulator, by cutting Perspex / Bakelite top cover and making necessary connections , as required.	4	no.	268.00	1,072.00
22	Providing Power Extension board with PVC Box , 3 C X 2.5 mm <sup>2</sup> PVC insulated, PVC sheathed, copper conductor cable [conforming to IS: 694, with latest amendment (if any)], 01 no. 16 A plug top, 02 nos. 16 A, 6 pin socket outlet (plug) & 02 nos 16 A Switch and making necessary connections, as required.				
	a) length - 15 m	1	no.	1,876.00	1,876.00
23	Providing Solid State (Static) Energy Meter (Watthour Meter) with backlit LCD display, conforms to IS 13779 (with latest amendment) [ISI marked ] and as per "Technical Specification".				
	a) Supply				
	i A.C. Single Phase , 2 Wire, Direct Connected . <u>Rated Voltage</u> (V <sub>ref</sub> ) :: 240 V – Phase to Neutral. <u>Rated Current</u> :: Basic Current [Ib]: 5 A, Maximum Current [ I <sub>max</sub> ]: 30 A.	1	no.	1,136.00	1,136.00
	b) Fixing A.C. Single Phase / Three Phase , Direct Connected Energy Meter (Watthour Meter), with screws & other fixing materials including making	1	no.	65.00	65.00

## BOQ-47

Sl. No.	Description of item	Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
				Unit rate (in Rs.)	Amount (in Rs.)
	necessary holes and making connection, as required.				
24	Stationary storage type (vertical, wall – mounted type) electric water heater [Geyser], ISI marked, having BEE (Bureau of Energy Efficiency) star rating - 5. Wattage : 2000 W Rated Voltage : 230 V (nominal), 50 Hz, AC singly phase. Each Geyser is to be provided with all standard accessories, including stainless steel wire braided connector set (02 no., 18” length).				
	a) Supply				
	i ) Capacity : 25 litre (approx)	2	no.	10,335.00	20,670.00
	b) Fixing & installation only Geysers [10 L / 15 L / 25 L] and making connection , as required.	2	no.	371.00	742.00
25	Supply and delivery of Ceiling Fan, suitable for suitable for 230 AC, 50 Hz supply system, complete with capacitor, canopy & all accessories and as per the 'Technical Specification':				
	a) 1400 mm sweep.	3	no.	2,542.00	7,626.00
	b) 900 mm sweep.	1	no.	2,381.00	2,381.00
26	Fixing only ceiling fan complete with blades, canopy, rubber bush, etc. and making connection [by providing required length of 'FR' 3 C X 0.5 mm <sup>2</sup> PVC insulated, PVC sheathed, copper conductor cable, conforming to IS: 694 , with latest amendment ( if any) ] , as required.	4	no.	168.00	672.00
27	Supply and delivery of 300 mm sweep Exhaust Fan [ metallic blade] suitable for 230 V AC, 50 Hz supply system, complete with all accessories and as per the 'Technical Specification'.	2	no.	2,339.00	4,678.00



## BOQ-48

Sl. No.	Description of item		Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
					Unit rate (in Rs.)	Amount (in Rs.)
28	Supply and delivery of Exhaust Fan [non-metallic blade ] suitable for 230 V AC, 50 Hz supply system, complete with all accessories & louver (gravity shutter system) and as per the 'Technical Specification'.					
	a)	200 mm sweep.	2	no.	1,602.00	3,204.00
29	Installation of exhaust fan , wall cowl , etc.					
	a)	Making hole in wall for fixing exhaust fan & making good damages to building works.				
	i)	Exhaust fan of sweep 300 mm.	2	no.	269.00	538.00
	ii)	Exhaust fan of sweep 200 mm.	1	no.	176.00	176.00
	b)	Providing aluminium louver shutter on wall , for exhaust fan of sweep 300 mm, with necessary bolts & nuts .	2	no.	219.00	438.00
	c)	Providing G I Wall Cowl on wall, for exhaust fan , with necessary bolts & nuts.				
	i)	Exhaust fan of sweep 300 mm.	2	no.	635.00	1,270.00
	d)	Fixing only exhaust fan of sweep 150 mm / 200 mm / 300 mm / 450 mm and making connection [by providing required length of 'FR' 3 C X 0.5 mm <sup>2</sup> PVC insulated, PVC sheathed, copper conductor cable (if required), conforming to IS: 694 , with latest amendment ( if any) ] , as required.	3	no.	104.00	312.00
30	a)	Supply and delivery of tube light fittings [ Surface Mounted, Box Type, suitable for 1 X 4 ft ( approx.) LED tubular lamp], complete with all accessories & Lamp [ LED tubular lamp, with Al body & PC Diffuser Material & in-built driver; System wattage	12	no.	1,205.00	14,460.00

## BOQ-49

Sl. No.	Description of item		Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
					Unit rate (in Rs.)	Amount (in Rs.)
		of luminaire: $\leq 22$ W; Luminous flux : $\geq 2100$ lumen ; suitable for 230 V AC, 50 Hz supply system], as per the 'Technical Specification' .				
	b)	Supply and delivery of tube light fittings [ Surface Mounted, Box Type, suitable for 2 X 4 ft ( approx.) LED tubular lamp], complete with all accessories & Lamp [ LED tubular lamp, with Al body & PC Diffuser Material & in-built driver; System wattage of each luminaire: $\leq 22$ W; Luminous flux of each luminaire : $\geq 2100$ lumen ; suitable for 230 V AC, 50 Hz supply system], as per the 'Technical Specification'.	3	no.	1,964.00	5,892.00
31		Supply and delivery of 1 X 2 ft (approx.) tube light fittings [ Integrated LED Batten, Surface Mounted; System wattage of luminaire: $\leq 10$ W; Luminous flux : $\geq 1000$ lumen ], complete with all accessories, driver & Lamp , suitable for 230 V AC, 50 Hz supply system and as per the 'Technical Specification'.	6	no.	455.00	2,730.00
32		Supply & delivery of 10W-12W Bulkhead surface / wall mounted LED light fittings (IP 65), suitable for 230 V AC, 50 Hz supply system and as per the 'Technical Specification'.	1	no.	1,875.00	1,875.00
33		Supply & delivery of surface mounted LED light fittings (IP 20), suitable for 230 V AC, 50 Hz supply system and as per the 'Technical Specification'.				
	a)	05W-06W	1	no.	893.00	893.00
	b)	10W-12W	1	no.	1,295.00	1,295.00

## BOQ-50

Sl. No.	Description of item	Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
				Unit rate (in Rs.)	Amount (in Rs.)
34	Fixing only tube light fittings / post top light fittings / round light fittings / bracket lights / night lamp fittings / calling bell, complete with all accessories, directly on wall / ceiling / post top / PVC or HW Block by screws / MS fastener, including necessary connections [by providing required length of 'FR' 3 C X 0.5 mm <sup>2</sup> PVC insulated, PVC sheathed, copper conductor cable, conforming to IS: 694 , with latest amendment (if any) ] & mending good damages to the wall / ceiling / post .	30	no.	114.00	3,420.00
35	Supply and delivery of Outdoor / Street light type [IP 66] LED Light fittings [ suitable for 230 V AC, 50 Hz supply system ] , provided with suitable Driver & necessary safety protections [complete with all accessories] and as per "Technical Specification".				
	a) System wattage of luminaire: $\leq 30$ W Luminous flux: $\geq 3000$ lumen.	5	no.	2,768.00	13,840.00
36	Providing GI pipe (ISI- Medium) of 1.2 m average length [having suitable bend & fixed / projected from the wall of the building, for fixing outdoor / street light type light fitting), including making holes / clamping arrangement & mending good damages to wall .				
	a) using 32 mm nominal bore GI pipe.	5	no.	606.00	3,030.00
37	Fixing only outdoor / street light type LED light fitting, complete with all accessories , on the existing GI Pipe (fixed / projected from the wall of the building), including making connections [by providing 'FR' 3 C X 0.5 mm <sup>2</sup> PVC insulated, PVC sheathed, copper conductor cable {conforming to IS: 694 , with	5	no.	243.00	1,215.00

## BOQ-51

Sl. No.	Description of item		Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
					Unit rate (in Rs.)	Amount (in Rs.)
	latest amendment ( if any)} & flexible PVC conduit of length 1 m approx.]					
38	Providing LED bulb, suitable for 230 V AC, 50 Hz supply system .					
	a)	9 W	6	no.	161.00	966.00
39	Providing PVC Batten Type / Angle Type Lamp Holder, on PVC / HW Block , including mending good damages to the wall .		6	no.	89.00	534.00
40	Providing (after cutting the brick wall or fixing on wall surface) outdoor type PVC Junction Box [IP 66 with knockouts for cable entry] of following size [complete with 3 way terminals attached inside the box] and mending good damages to building works.					
	a)	165 mm X 125 mm X 75 mm (approx.)	5	no.	1,249.00	6,245.00
41	Providing sheet steel, duly painted, MCB Distribution Board on wall / iron structure & mending good the damages to original finish, including provision for earthing attachment. (Without MCB / RCCB / Isolator).					
	a)	2 way	1	no.	508.00	508.00
	b)	4 way	1	no.	513.00	513.00
42	Providing double door, sheet steel, powder painted, SPN MCB Distribution Board [IP-43 protection and complete with tinned copper bus bar, copper connecting leads, neutral bar, earth bar & din bar] on masonry wall (concealed) / iron structure & mending good the damages to original finish, including inter-connection and provision for earthing attachment.					

## BOQ-52

Sl. No.	Description of item		Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
					Unit rate (in Rs.)	Amount (in Rs.)
	(Without MCB / RCCB / Isolator)					
	a)	6 way (2+6 module)	2	no.	1,902.00	3,804.00
43	Providing double door, sheet steel, powder painted, TPN MCB Distribution board [IP-43 protection and complete with tinned copper bus bar, copper connecting leads, neutral bar, earth bar & din bar] on masonry wall (concealed) / iron structure & mending good the damages to original finish, including inter-connection and provision for earthing attachment. (without MCB / RCCB / Isolator).					
	a)	4 way (8+12 module)	20	no.	4,074.00	81,480.00
44	Providing Cable End Box [with IP-43 protection] on masonry wall (concealed) / iron structure & mending good the damages to original finish.					
	a)	For 6 way SPN DB	2	no.	531.00	1,062.00
	b)	For 4 way TPN DB	1	no.	881.00	881.00
45	Providing Four Pole, 415 V, 50 Hz, Residual Current Circuit Breaker (RCCB) [with Sensitivity: 30 mA] on din rail of existing DBs and necessary connection.					
	a)	63 A	30	no.	3,517.00	105,510.00
46	Providing 240 V / 415 V, 50 Hz, MCB (C characteristics, 10 kA Breaking capacity) on din rail of existing DBs and necessary connection.					
	a)	Single Pole, 6 A - 32 A	16	no.	225.00	3,600.00
	b)	Double Pole, 6 A - 32 A	2	no.	636.00	1,272.00
	c)	Four Pole , 40 A - 63 A	1	no.	1,983.00	1,983.00

## BOQ-53

Sl. No.	Description of item			Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]			
						Unit rate (in Rs.)	Amount (in Rs.)		
47	Supplying & laying of heavy, galvanized, mild steel tubes (including sockets) as per IS 1239 [with latest amendment].								
	a)	Supply							
		i)	50 mm (nominal bore)		15	m	552.00	8,280.00	
	b)	Laying, including joining of tubes by sockets, if required.							
		I)	Over the culvert, canal, etc. (fixing on existing structural supports) or through walls, roads, etc. (through open excavation & refilling) or with vertical structure (fixing using clamps / supports). The scope includes supply of materials, as required ( excepting main support structure for crossing the canal)], as per "Technical Specification".						
			i)	upto 50 mm (nominal bore)		12	m	225.00	2,700.00
		II )	Through boring process.						
		i )	upto 50 mm (nominal bore)		3	m	800.00	2,400.00	
48	Supply & Laying of 1.1 kV grade, XLPE insulated, , power cable (FRLS), conforming to IS: 7098 (Part – I) , with latest amendment (if any), and as per "Technical Specification".								
	a)	Supply							
		I)	Galvanized steel armored, stranded aluminium conductor.						
		i) 4 C X 6 mm <sup>2</sup>			120	m	113.00	13,560.00	
		ii) 3 ½ C X 25 mm <sup>2</sup>			120	m	203.00	24,360.00	

## BOQ-54

Sl. No.	Description of item		Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]		
					Unit rate (in Rs.)	Amount (in Rs.)	
	b)	Laying, Testing & Commissioning					
		I)	When laid in underground trench. The scope includes excavation the trench size : 680 mm x 760 mm average depth, sand cushioning, protective top covering by tiles, slabs or bricks (with 08 nos. bricks per metre on each cable), protection on the top of each cable, in single tier formation (horizontal) separator between the bricks and cables [4 (four) Nos. bricks per Mtr.], refilling the trench, leveling up, restoring surface (duly rammed),etc. [including supply of materials, as required], as per "Technical Specification".				
			i) 02 no. 1C / 3C / 3 ½ C / 4C cable, upto 50 mm <sup>2</sup> .	90	RM	342.00	30,780.00
		II)	When run through existing duct , trench, culvert , laid pipe, riser pipe, etc.				
			i) 01 no. 1C / 3C / 3 ½ C / 4C cable, upto 50 mm <sup>2</sup> .	12	RM	109.00	1,308.00
		III)	After cutting floor / pavement / wall and making holes, including embedding the cable at an average				

## BOQ-55

Sl. No.	Description of item			Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
						Unit rate (in Rs.)	Amount (in Rs.)
			depth ( through suitable casing pipe) and mending good the damages to original finish including removal of the rubbish.				
			i) 01 no. 1 C / 3C / 3 ½ C / 4C cable, upto 35 mm <sup>2</sup> , at an average depth of 75 mm.	12	RM	144.00	1,728.00
		IV )	When laid on existing Cable Tray and fixing by aluminium saddling ( approx. 300 mm interval) [including supply of materials, as required].				
			i) 01 no. 1 C / 3C / 3 ½ C / 4C cable, upto 50 mm <sup>2</sup> .	6	RM	12.00	72.00
		V)	When laid on wall and fixing by aluminium saddling (approx. 300 mm interval) , with earthing attachment in 10 SWG GI (Hot Dip) wire [including supply of materials, as required] , as necessary, including mending good damages to building works.				
			i) 01 no. 3C / 3 ½ C / 4C cable, upto 25 mm <sup>2</sup> .	30	RM	68.00	2,040.00
49	Connecting the leads of following PVC / XLPE armoured / unarmoured cables with MCCBs / MCBs / SDFU/ connectors [after finishing the ends by crimping method ,						



## BOQ-56

Sl. No.	Description of item	Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
				Unit rate (in Rs.)	Amount (in Rs.)
	including supplying & fixing solderless sockets , tapes, anticorrosive paste & jointing materials], at Distribution Board / Junction Box / SDFU:				
	a) 4 C X 6 mm <sup>2</sup> , 1.1 kV grade, Aluminium Conductor Cable.	4	set	70.00	280.00
	b) 3 ½ C X 25 mm <sup>2</sup> , 1.1 kV grade, Aluminium Conductor Cable	4	set	125.00	500.00
50	Providing double compression type gland complete with brass gland, brass ring & rubber ring for dust & moisture-proof entry of following XLPE insulated, armoured cables as given below :				
	a) 4 C X 6 mm <sup>2</sup> , 1.1 kV grade, Aluminium Conductor Cable.	4	set	131.00	524.00
	b) 3 ½ C X 25 mm <sup>2</sup> , 1.1 kV grade, Aluminium Conductor Cable	4	set	173.00	692.00
51	Providing Earthing Stations , using Earth Electrode [made of 3 m long Medium Galvanised Mild Steel Tubes (as per IS:1239) of nominal bore 50 mm ]. 260 mm long G.I. Strip of size 50 mm X 6 mm (with 4 nos. 10 mm dia tap hole, bend to shape of pipe) to be welded at 100 mm below the top of tube for connection of Earth Strip. G.I. Funnel / Cap to be provided on top of the tube. Earth Electrode to be driven in the Earth Pit filled up with alternate layer of Charcoal and Salt. Earth Pit should be provided with suitable size Brick Masonry Inspection Chamber with removable RCC Cover (75 mm thick) with handle.	2	no.	3,617.00	7,234.00

## BOQ-57

Sl. No.	Description of item	Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
				Unit rate (in Rs.)	Amount (in Rs.)
52	Providing earth busbar of galvanized (Hot Dip) MS flat 50 mm X 6 mm on wall having clearance of 6 mm from wall including providing drilled holes on the busbar complete with GI bolts, nuts, washers, spacing insulators etc., as required	1	no.	177.00	177.00
53	Interconnection of Earthing Stations by G.I. Strip (Hot Dip) of size 50 mm X 6 mm, with bolts, nuts, washers, etc.	8	m	225.00	1,800.00
54	Connecting the earth busbar to Earthing Station (with bolts, nuts, washers, etc.), including supply & laying of G.I. Strip (Hot Dip) of size 25 mm X 6 mm, using GI saddles or through PVC conduit of suitable size , including drilling holes.	25	m	216.00	5,400.00
<b>Part A Total:</b>					<b>Rs. 5,38,693.00</b>

**BOQ-58**

**Part B.**

**HDI Building & adjacent area Electrical Renovation:**

Sl. No.	Description of item		Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
					Unit rate (in Rs.)	Amount (in Rs.)
1	a)	Providing PVC pipe of following diameters [thickness not less than 2 mm] complete with fittings, as necessary, by cutting channel of suitable size on masonry wall / floor and fixing the pipe (approx. 18 mm below the top surface of the wall / floor) by means of iron hooks / binding wire, including mending good damages to building works.				
	i)	13 mm dia	500	RM	84.00	42,000.00
	ii)	19 mm dia	1,800	RM	99.00	178,200.00
	iii)	25 mm dia	240	RM	126.00	30,240.00
	iv)	30 mm dia	120	RM	126.00	15,120.00
	b)	Providing 19 mm (nominal size) PVC Rigid Conduit [medium mechanical stresses, 'FR'] on surface of the wall / ceiling, with aluminium saddles and other accessories, as required and mending good damages to building works.	20	RM	58.00	1,160.00
	c)	Providing Steel wire reinforced Flexible uPVC Conduit pipes on surface of the wall / ceiling / floor /structure, with aluminium saddles and other accessories, as required and mending good damages to building works.				
	i)	Size (ID): 40 mm	6	RM	119.00	714.00
	ii)	Size (ID): 20 mm	6	RM	65.00	390.00

## BOQ-59

Sl. No.	Description of item		Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
					Unit rate (in Rs.)	Amount (in Rs.)
	d)	Providing Steel wire reinforced Flexible UPVC Conduit glands.				
	i)	Size (OD): 40 mm	12	no.	28.50	342.00
	ii)	Size (OD): 20 mm	12	no.	13.50	162.00
2	Supply & fixing of PVC casing-capping, including necessary PVC clips, fittings etc., on wall or ceiling and mending good damages to building woks.					
	a)	20 mm size	30	RM	36.00	1,080.00
	b)	25 mm size	30	RM	40.00	1,200.00
	c)	32 mm size	10	RM	40.00	400.00
3	Providing 'FR' PVC insulated (unsheathed), single core, 1.1 kV grade, copper (stranded) wire (ISI marked) of the following sizes, in the pre-laid PVC pipe / PVC casing-capping and making necessary connection, as required.					
	a)	2 X 1.5 mm <sup>2</sup> (as phase & neutral wires)	100	RM	39.00	3,900.00
	b)	3 X 1.5 mm <sup>2</sup> (as phase & neutral wires and as Earth Continuity Conductor)	300	RM	55.00	16,500.00
	c)	2 X 2.5 mm <sup>2</sup> (as phase & neutral wires) and 1 X 1.5 mm <sup>2</sup> (as Earth Continuity Conductor)	1,500	RM	74.00	111,000.00
	d)	2 X 4.0 mm <sup>2</sup> (as phase & neutral wires) and 1 X 2.5 mm <sup>2</sup> (as Earth Continuity Conductor)	150	RM	108.00	16,200.00
	e)	2 X 6.0 mm <sup>2</sup> (as phase & neutral wires) and 1 X 4.0 mm <sup>2</sup> (as Earth Continuity Conductor)	150	RM	158.00	23,700.00

## BOQ-60

Sl. No.	Description of item		Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
					Unit rate (in Rs.)	Amount (in Rs.)
	f)	2 X 10.0 mm <sup>2</sup> (as phase & neutral wires) and 1 X 6.0 mm <sup>2</sup> (as Earth Continuity Conductor)	10	RM	282.00	2,820.00
	g)	4 X 10.0 mm <sup>2</sup> (as 3 phase & neutral wires) and 2 X 6.0 mm <sup>2</sup> (as Earth Continuity Conductor)	10	RM	560.00	5,600.00
	h)	4 X 16.0 mm <sup>2</sup> (as 3 phase & neutral wires) and 2 X 10.0 mm <sup>2</sup> (as Earth Continuity Conductor)	10	RM	903.00	9,030.00
	i)	2 X 10.0 mm <sup>2</sup> (as Earth Continuity Conductor)	20	RM	225.00	4,500.00
4	Wiring in 'FR' PVC insulated (unsheathed), single core, 1.1 kV grade, copper (stranded) wire (ISI marked) of following sizes in 25 mm PVC casing-capping [including supply & fixing of PVC casing-capping, PVC clips, fittings, etc.] and making necessary connection, as required.					
	a)	3 X 1.5 mm <sup>2</sup> (as phase & neutral wires)	50	RM	97.00	4,850.00
	b)	2 X 2.5 mm <sup>2</sup> (as phase & neutral wires) and 1 X 1.5 mm <sup>2</sup> (as Earth Continuity Conductor)	50	RM	116.00	5,800.00
	c)	2 X 4.0 mm <sup>2</sup> (as phase & neutral wires) and 1 X 2.5 mm <sup>2</sup> (as Earth Continuity Conductor)	10	RM	150.00	1,500.00
5	Supplying and drawing FRLS PVC insulated annealed copper conductor, unarmored telephone cable (one run) through existing pipes / casing-capping and making necessary connections, as required.					
	a)	2 pair 0.5 mm diameter telephone cable .	10	m	20.00	200.00

## BOQ-61

Sl. No.	Description of item		Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
					Unit rate (in Rs.)	Amount (in Rs.)
	b)	4 pair 0.5 mm diameter telephone cable .	60	m	28.00	1,680.00
6		Supplying and drawing co-axial TV cable (one run) , RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath, through existing pipes / casing-capping and making necessary connections, as required.	40	m	33.00	1,320.00
7		Supplying and drawing of UTP 4 pair CAT 6 LAN Cable (one run) through existing pipes / casing-capping.	60	m	48.00	2,880.00
8		<b><u>Finishing Copper Wire ends</u></b> Finishing of the ends of 1.1 kV grade, copper (stranded) wire, by socketing with pin / ring type copper sockets , insulating tapes, etc., including supplying sockets, tapes, etc., as required.				
	a)	1.5 mm <sup>2</sup>	200	set	7.00	1,400.00
	b)	2.5 mm <sup>2</sup>	350	set	7.00	2,450.00
	c)	4 mm <sup>2</sup>	20	set	8.00	160.00
	d)	6 mm <sup>2</sup>	40	set	10.00	400.00
	e)	10 mm <sup>2</sup>	8	set	12.00	96.00
	f)	16 mm <sup>2</sup>	8	set	19.00	152.00
9		Distribution wiring (alongwith earth wire) [average run 6 m], with 'FR' PVC insulated (unsheathed), single core, 1.1 kV grade, copper (stranded) wire (ISI marked), in suitable size (minimum 20 mm) PVC casing-capping [including necessary fittings / accessories], to light / fan / exhaust fan / call bell point [ including supply & fixing of 3 terminal Ceiling Rose / Batten Holder / Angle Holder /Connector, as required ],				

## BOQ-62

Sl. No.	Description of item		Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
					Unit rate (in Rs.)	Amount (in Rs.)
	including necessary connections & making earthing attachment and mending good damages to building works. <b>[PVC casing-capping and Switch board both on surface]</b> 2 X 1.5 mm <sup>2</sup> (as phase & neutral wires) and 1 X 1.5 mm <sup>2</sup> (as Earth Continuity Conductor), per point.					
	a)	with Piano Key type switch fixed on PVC switch board ( with top cover) on wall ( including supply & fixing of switch & switch board).	4	point	749.00	2,996.00
10	Distribution wiring (alongwith earth wire) [average run 6 m], with 'FR' PVC insulated (unsheathed), single core, 1.1 kV grade, copper (stranded) wire (ISI marked), in suitable size [minimum 13 mm bore, 2 mm thick] PVC concealed pipe [complete with all accessories] embedded in wall, to light / fan / exhaust fan / call bell point [including supply & fixing of 3 terminal Ceiling Rose / Batten Holder / Angle Holder / Connector, as required], including necessary connections & making earthing attachment and mending good damages to building works. 2 X 1.5 mm <sup>2</sup> (as phase & neutral wires) and 1 X 1.5 mm <sup>2</sup> (as Earth Continuity Conductor), per point.					
	a)	with Piano Key type switch fixed on CRCA sheet metal (16 SWG) switch board with Perspex / Bakelite top cover (3 mm thick) flushed on wall, ( including supply & fixing of switch & switch board).	140	point	886.00	124,040.00

## BOQ-63

Sl. No.	Description of item	Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
				Unit rate (in Rs.)	Amount (in Rs.)
11	Distribution wiring (alongwith earth wire) [average run 6 m], with 'FR' PVC insulated (unsheathed), single core, 1.1 kV grade, copper (stranded) wire (ISI marked), in suitable size [minimum 13 mm bore, 2 mm thick] PVC concealed pipe [complete with all accessories] embedded in wall and in suitable size (minimum 20 mm) <b>PVC casing-capping for ceiling / beam portion only</b> , to light / fan / exhaust fan / call bell point [including supply & fixing of 3 terminal Ceiling Rose / Batten Holder / Angle Holder / Connector, as required ], including necessary connections & making earthing attachment and mending good damages to building works. 2 X 1.5 mm <sup>2</sup> (as phase & neutral wires) and 1 X 1.5 mm <sup>2</sup> (as Earth Continuity Conductor), per point.				
	a) with Piano Key type switch fixed on CRCA sheet metal (16 SWG) switch board with Perspex / Bakelite top cover (3 mm thick) flushed on wall, ( including supply & fixing of switch & switch board).	50	point	1,014.00	50,700.00
12	Distribution wiring (alongwith earth wire) [average run 6 m], with 'FR' PVC insulated (unsheathed), single core, 1.1 kV grade, copper (stranded) wire (ISI marked), in suitable size (minimum 20 mm) PVC casing-capping [ including necessary fittings / accessories], to light / fan / exhaust fan / call bell point				



## BOQ-64

Sl. No.	Description of item	Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
				Unit rate (in Rs.)	Amount (in Rs.)
	[including supply & fixing of 3 terminal Ceiling Rose / Batten Holder / Angle Holder / Connector, as required ], including necessary connections & making earthing attachment and mending good damages to building works. <b>[PVC casing capping on surface and Switch board concealed]</b> 2 X 1.5 mm <sup>2</sup> (as phase & neutral wires) and 1 X 1.5 mm <sup>2</sup> (as Earth Continuity Conductor), per point.				
	a) with Piano Key type switch fixed on CRCA sheet metal (16 SWG) switch board with Perspex / Bakelite top cover (3 mm thick) flushed on wall (including supply & fixing of switch & switch board).	20	point	845.00	16,900.00
13	Distribution wiring (alongwith earth wire) , with 'FR' PVC insulated (unsheathed), single core, 1.1 kV grade, copper (stranded) wire (ISI marked), in suitable size PVC casing-capping [including necessary fittings / accessories] , to 240 V, 6 A, 5 pin socket outlet (plug) point , including necessary connections & making earthing attachment and mending good damages to building works. [PVC casing-capping and Switch board both on surface] 2 X 1.5 mm <sup>2</sup> (as phase & neutral wires) and 1 X 1.5 mm <sup>2</sup> (as Earth				

## BOQ-65

Sl. No.	Description of item	Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
				Unit rate (in Rs.)	Amount (in Rs.)
	Continuity Conductor), per point.				
	a) including supply & fixing of 240 V, 6 A, 5 pin socket outlet (plug) & Piano Key type switch on existing PVC Switch Board (with top cover) { of light & fan } fixed on wall.	30	point	86.00	2,580.00
14	Distribution wiring (alongwith earth wire), with 'FR' PVC insulated (unsheathed), single core, 1.1 kV grade, copper (stranded) wire (ISI marked), in suitable size [minimum 13 mm bore, 2 mm thick] PVC concealed pipe [complete with all accessories ] embedded in wall, to 240 V, 6 A, 5 pin socket outlet (plug) point, including necessary connections & making earthing attachment and mending good damages to building works. 2 X 1.5 mm <sup>2</sup> (as phase & neutral wires) and 1 X 1.5 mm <sup>2</sup> (as Earth Continuity Conductor), per point.				
	a) including supply & fixing of 240 V, 6 A, 5 pin socket outlet (plug) & Piano Key type switch on existing CRCA sheet metal (16 SWG) switch board with Perspex / Bakelite top cover (3 mm thick) {of light & fan} flushed on wall.	30	point	86.00	2,580.00
15	Providing (after cutting the brick wall) CRCA sheet metal (16 SWG) JB-cum-Switch Board (having earthing attachment) of the following sizes, flushed in wall, including painting and mending good damages to				

## BOQ-66

Sl. No.	Description of item		Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
					Unit rate (in Rs.)	Amount (in Rs.)
	building works.					
	a)	100 mm X 100 mm X 50 mm	60	no.	119.00	7,140.00
	b)	150 mm X 100 mm X 50 mm	20	no.	162.00	3,240.00
	c)	175 mm X 100 mm X 50 mm	10	no.	178.00	1,780.00
	d)	200 mm X 100 mm X 50 mm	30	no.	178.00	5,340.00
	e)	200 mm X 150 mm X 50 mm	10	no.	241.00	2,410.00
	f)	250 mm X 100 mm X 50 mm	20	no.	287.00	5,740.00
	g)	300 mm X 250 mm X 50 mm	2	no.	323.00	646.00
16	Providing Bakelite / Perspex top cover (3 mm thick) on the existing sheet metal JB-cum-Switch Board of following sizes, fixing by Brass screws: <i>[The covers should be extended atleast 25 mm from the screw points ]</i>					
	a)	100 mm X 100 mm X 50 mm	60	no.	40.00	2,400.00
	b)	150 mm X 100 mm X 50 mm	20	no.	48.00	960.00
	c)	175 mm X 100 mm X 50 mm	10	no.	53.00	530.00
	d)	200 mm X 100 mm X 50 mm	30	no.	53.00	1,590.00
	e)	200 mm X 150 mm X 50 mm	10	no.	68.00	680.00
	f)	250 mm X 100 mm X 50 mm	20	no.	91.00	1,820.00
	g)	300 mm X 250 mm X 50 mm	2	no.	103.00	206.00
17	Providing 240 V, 16 A Piano Key type switch on existing sheet metal switch board having Perspex / Bakelite top cover by screws, after making housing for switch, by cutting Perspex / Bakelite top cover and making		12	no.	83.00	996.00

## BOQ-67

Sl. No.	Description of item	Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
				Unit rate (in Rs.)	Amount (in Rs.)
	necessary connections [with 'FR' PVC insulated (unsheathed), single core, 1.1 kV grade, copper (stranded) wire (ISI marked) of size 4.0 mm <sup>2</sup> ], as required.				
18	Providing 240 V, 16 A, 6 pin socket outlet (plug) [without switch & plug top] on existing sheet metal switch board having Perspex / Bakelite top cover by screws, after making housing for socket outlet (plug), by cutting Perspex / Bakelite top cover and making necessary connections [with 'FR' PVC insulated (unsheathed), single core, 1.1 kV grade, copper (stranded) wire (ISI marked) of sizes 4.0 mm <sup>2</sup> (for phase & neutral wires) & 2.5 mm <sup>2</sup> (as Earth Continuity Conductor)], as required.	36	no.	83.00	2,988.00
19	Providing 240 V, 6 A Piano Key type switch / bell push on existing sheet metal switch board having Perspex / Bakelite top cover by screws, after making housing for switch, by cutting Perspex / Bakelite top cover and making necessary connections [with suitable size 'FR' PVC insulated (unsheathed), single core, 1.1 kV grade, copper (stranded) wire (ISI marked)], as required.	60	no.	31.00	1,860.00
20	Providing 240 V, 6 A, 5 pin flush type socket outlet (plug) [without switch & plug top] on existing sheet metal switch board having Perspex / Bakelite top cover by screws, after making housing for socket outlet (plug), by cutting Perspex / Bakelite top cover and making necessary connections [with suitable size 'FR' PVC insulated (unsheathed), single core, 1.1 kV grade, copper	60	no.	41.00	2,460.00

## BOQ-68

Sl. No.	Description of item	Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
				Unit rate (in Rs.)	Amount (in Rs.)
	(Stranded) wire (ISI marked)], as required.				
21	Providing 240 V, 6 A , 2 way Piano Key type switch on existing sheet metal switch board having Perspex / Bakelite top cover by screws, after making housing for switch, by cutting Perspex / Bakelite top cover and making necessary connections [with with 'FR' PVC insulated (unsheathed), single core, 1.1 kV grade, copper (stranded) wire (ISI marked) of size 1.5 mm <sup>2</sup> ], as required.	3	no.	48.00	144.00
22	Providing Socket type fan regulator (Step type) on existing sheet metal switch board having Perspex / Bakelite top cover by screws, after making housing for regulator, by cutting Perspex / Bakelite top cover and making necessary connections , as required.	42	no.	268.00	11,256.00
23	Providing Calling Bell point with PVC box [100 mm X 100 mm ] & 01 no. 02 pin plug socket.	3	no.	229.00	687.00
24	Providing Calling Bell Extension cord with hanging bell push switch, 2 C X 0.5 mm <sup>2</sup> PVC insulated, PVC sheathed, copper conductor cable (average length - 04 m ), [conforming to IS: 694 , with latest amendment (if any) ] & 02 pin plug top.	9	m	210.00	1,890.00
25	Providing Power Extension board with PVC Box , 3 C X 2.5 mm <sup>2</sup> PVC insulated, PVC sheathed, copper conductor cable [conforming to IS: 694, with latest amendment (if any)], 01 no. 16 A plug top, 02 nos. 16 A, 6 pin socket outlet (plug) & 02 nos 16 A Switch and making				

## BOQ-69

Sl. No.	Description of item		Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
					Unit rate (in Rs.)	Amount (in Rs.)
	necessary connections, as required.					
	a)	length - 10 m	2	no.	1,469.00	2,938.00
	b)	length - 5 m	2	no.	1,103.00	2,206.00
26	Providing calling bell, suitable for 230 V AC, 50 Hz supply system :					
	Buzzer calling bell, Indicator type.		3	no.	207.00	621.00
27	Providing 01 Telephone Socket (RJ11) on existing sheet metal switch board having Perspex / Bakelite top cover by screws, after making housing for switch, by cutting Perspex / Bakelite top cover and making necessary connections , as required.		4	no.	78.00	312.00
28	Providing 01 TV Socket on existing sheet metal switch board having Perspex / Bakelite top cover by screws, after making housing for switch, by cutting Perspex / Bakelite top cover and making necessary connections , as required.		4	no.	42.00	168.00
29	Providing 01 Computer Socket on existing GI / PVC Modular Switch Board [with mounting plate & frame] and making necessary connections, as required.		4	no.	462.00	1,848.00
30	Stationary storage type (vertical, wall – mounted type) electric water heater [Geyser], ISI marked, having BEE (Bureau of Energy Efficiency) star rating - 5. Wattage : 2000 W Rated Voltage : 230 V (nominal), 50 Hz, AC singly phase. Each Geyser is to be provided with all standard accessories, including stainless steel wire					

## BOQ-70

Sl. No.	Description of item		Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
					Unit rate (in Rs.)	Amount (in Rs.)
	braided connector set (02 no., 18" length).					
	a)	Supply				
	i)	Capacity : 10 litre (approx)	2	no.	8,021.00	16,042.00
	b)	Fixing & installation only Geysers [10 L / 15 L / 25 L] and making connection , as required.	2	no.	371.00	742.00
31	Supply and delivery of Ceiling Fan, suitable for suitable for 230 AC, 50 Hz supply system, complete with capacitor, canopy & all accessories and as per the 'Technical Specification':					
	a)	1400 mm sweep.	18	no.	2,542.00	45,756.00
	b)	1200 mm sweep.	22	no.	2,508.00	55,176.00
	c)	900 mm sweep.	2	no.	2,381.00	4,762.00
32	Fixing only ceiling fan complete with blades, canopy, rubber bush, etc. and making connection [by providing required length of 'FR' 3 C X 0.5 mm <sup>2</sup> PVC insulated, PVC sheathed, copper conductor cable, conforming to IS: 694 , with latest amendment ( if any) ] , as required.		42	no.	168.00	7,056.00
33	Supply and delivery of 300 mm sweep Exhaust Fan [ metallic blade ] suitable for 230 V AC, 50 Hz supply system, complete with all accessories and as per the 'Technical Specification'.		4	no.	2,339.00	9,356.00
34	Supply and delivery of Exhaust Fan [non-metallic blade ] suitable for 230 V AC, 50 Hz supply system, complete with all accessories & louver (gravity shutter system) and as per the 'Technical Specification'.					
	a)	200 mm sweep.	2	no.	1,602.00	3,204.00

## BOQ-71

Sl. No.	Description of item		Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
					Unit rate (in Rs.)	Amount (in Rs.)
35	Installation of exhaust fan , wall cowl , etc.					
	a)	Making hole in wall for fixing exhaust fan & making good damages to building works.				
	i)	Exhaust fan of sweep 300 mm.	4	no.	269.00	1,076.00
	ii)	Exhaust fan of sweep 200 mm.	2	no.	176.00	352.00
	b)	Providing aluminium louver shutter on wall , for exhaust fan of sweep 300 mm, with necessary bolts & nuts .	4	no.	219.00	876.00
	c)	Providing G I Wall Cowl on wall, for exhaust fan , with necessary bolts & nuts.				
	i)	Exhaust fan of sweep 300 mm.	4	no.	635.00	2,540.00
36	d)	Fixing only exhaust fan of sweep 150 mm / 200 mm / 300 mm / 450 mm and making connection [by providing required length of 'FR' 3 C X 0.5 mm <sup>2</sup> PVC insulated, PVC sheathed, copper conductor cable (if required), conforming to IS: 694 , with latest amendment ( if any) ] , as required.	6	no.	104.00	624.00
	Supply and delivery of 400 mm sweep Wall Fan, with close-mesh guards , suitable for 230 V AC, 50 Hz supply system, complete with all accessories .		2	no.	2,881.00	5,762.00
37	Fixing only Wall Fan of sweep 300 mm / 400 mm / 450 mm and making connection [by providing required length of 'FR' 3 C X 0.5 mm <sup>2</sup> PVC insulated, PVC sheathed, copper conductor cable (if required), conforming to IS: 694 , with latest amendment ( if any) ] , as required.		2	no.	104.00	208.00



## BOQ-72

Sl. No.	Description of item		Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
					Unit rate (in Rs.)	Amount (in Rs.)
38	a)	Supply and delivery of tube light fittings [ Surface Mounted, Box Type, suitable for 1 X 4 ft ( approx.) LED tubular lamp], complete with all accessories & Lamp [ LED tubular lamp, with Al body & PC Diffuser Material & in-built driver; System wattage of luminaire: $\leq 22$ W; Luminous flux : $\geq 2100$ lumen ; suitable for 230 V AC, 50 Hz supply system], as per the 'Technical Specification' .	45	no.	1,205.00	54,225.00
	b)	Supply and delivery of tube light fittings [ Surface Mounted, Box Type, suitable for 2 X 4 ft ( approx.) LED tubular lamp], complete with all accessories & Lamp [ LED tubular lamp, with Al body & PC Diffuser Material & in-built driver; System wattage of each luminaire: $\leq 22$ W; Luminous flux of each luminaire : $\geq 2100$ lumen ; suitable for 230 V AC, 50 Hz supply system], as per the 'Technical Specification'.	40	no.	1,964.00	78,560.00
39		Supply and delivery of 1 X 4 ft (approx.) tube light fittings [ Integrated LED Batten, Surface Mounted; System wattage of luminaire: $\leq 20$ W; Luminous flux : $\geq 2000$ lumen ], complete with all accessories, driver & Lamp , suitable for 230 V AC, 50 Hz supply system and as per the 'Technical Specification'.	2	no.	554.00	1,108.00

## BOQ-73

Sl. No.	Description of item	Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
				Unit rate (in Rs.)	Amount (in Rs.)
40	Supply and delivery of 1 X 2 ft (approx.) tube light fittings [ Integrated LED Batten, Surface Mounted; System wattage of luminaire: $\leq 10$ W; Luminous flux : $\geq 1000$ lumen ], complete with all accessories, driver & Lamp , suitable for 230 V AC, 50 Hz supply system and as per the 'Technical Specification'.	8	no.	455.00	3,640.00
41	Supply & delivery of 10W-12W Bulkhead surface / wall mounted LED light fittings (IP 65), suitable for 230 V AC, 50 Hz supply system and as per the 'Technical Specification'.	4	no.	1,875.00	7,500.00
42	Supply & delivery of surface mounted LED light fittings (IP 20), suitable for 230 V AC, 50 Hz supply system and as per the 'Technical Specification'.				
	a) 05W-06W	4	no.	893.00	3,572.00
	b) 10W-12W	4	no.	1,295.00	5,180.00
	c) 18W-20W	12	no.	1,786.00	21,432.00
43	Supply and delivery of 40W - 45W Decorative Post Top LED Light fittings [ Post-Top lantern ], with IP 65 protection, complete with all accessories & lamp , suitable for 230 V AC, 50 Hz supply system and as per the 'Technical Specification'.	6	no.	10,714.00	64,284.00
44	Fixing only tube light fittings / post top light fittings / round light fittings / bracket lights / night lamp fittings / calling bell, complete with all accessories, directly on wall / ceiling / post top / PVC or HW Block by screws / MS fastener, including necessary connections [by providing required length of 'FR'	150	no.	114.00	17,100.00

## BOQ-74

Sl. No.	Description of item		Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
					Unit rate (in Rs.)	Amount (in Rs.)
	3 C X 0.5 mm <sup>2</sup> PVC insulated, PVC sheathed, copper conductor cable, conforming to IS: 694 , with latest amendment (if any) ] & mending good damages to the wall / ceiling / post .					
45	Supply and delivery of LED recessed luminaire [suitable for 230 V AC, 50 Hz supply system], provided with suitable Driver & necessary safety protections [complete with all accessories] and as per 'Technical Specification'.					
	a)	Supply				
	i)	2ft X 2ft luminaire . System wattage of luminaire: ≤ 36 W Luminous flux: ≥ 3600 lumen.	4	no.	4,464.00	17,856.00
	ii)	1ft X 1ft luminaire System wattage of luminaire: ≤ 18 W Luminous flux: ≥ 1800 lumen.	2	no.	2,411.00	4,822.00
	iii)	1ft X 4ft luminaire System wattage of luminaire: ≤ 40 W Luminous flux: ≥ 4000 lumen.	2	no.	5,357.00	10,714.00
	b)	Fixing LED recessed luminaire , complete with all accessories, under the false ceiling, including making cut out, necessary connections [by providing required length of 'FR' 3 C X 0.5 mm <sup>2</sup> PVC insulated, PVC sheathed, copper conductor cable, conforming to IS: 694, with latest amendment (if any) ] & mending good damages to the false ceiling.				
	i)	2ft X 2ft luminaire .	4	no.	329.00	1,316.00

## BOQ-75

Sl. No.	Description of item			Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
						Unit rate (in Rs.)	Amount (in Rs.)
		ii)	1ft X 1ft luminaire.	2	no.	210.00	420.00
		iii)	1ft X 4ft luminaire .	2	no.	329.00	658.00
46	Supply and delivery of Outdoor / Street light type [IP 66] LED Light fittings [ suitable for 230 V AC, 50 Hz supply system ] , provided with suitable Driver & necessary safety protections [complete with all accessories] and as per "Technical Specification".						
	a)	System wattage of luminaire: ≤ 120 W Luminous flux: ≥ 12000 lumen.		6	no.	12,500.00	75,000.00
47	Providing GI pipe (ISI-Medium) of 1.2 m average length [having suitable bend & fixed / projected from the wall of the building, for fixing outdoor / street light type light fitting), including making holes / clamping arrangement & mending good damages to wall .						
	a)	using 50 mm nominal bore GI pipe.		6	no.	943.00	5,658.00
48	Fixing only outdoor / street light type LED light fitting, complete with all accessories , on the existing GI Pipe (fixed / projected from the wall of the building), including making connections [by providing 'FR' 3 C X 0.5 mm <sup>2</sup> PVC insulated, PVC sheathed, copper conductor cable {conforming to IS: 694 , with latest amendment ( if any)} & flexible PVC conduit of length 1 m approx.]			6	no.	243.00	1,458.00
49	Providing LED bulb, suitable for 230 V AC, 50 Hz supply system .						
	a)	9 W		12	no.	161.00	1,932.00

## BOQ-76

Sl. No.	Description of item		Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
					Unit rate (in Rs.)	Amount (in Rs.)
50	Providing PVC Batten Type / Angle Type Lamp Holder, on PVC / HW Block , including mending good damages to the wall .		12	no.	89.00	1,068.00
51	Providing 3 terminal Ceiling Rose on PVC / HW Block , including mending good damages to the wall .		30	no.	64.00	1,920.00
52	Providing (after cutting the brick wall or fixing on wall surface) outdoor type PVC Junction Box [IP 66 with knockouts for cable entry] of following size [complete with 3 way terminals attached inside the box] and mending good damages to building works.					
	a)	125 mm X 115 mm X 60 mm (approx.)	12	no.	891.00	10,692.00
53	Providing sheet steel, duly painted, MCB Distribution Board on wall / iron structure & mending good the damages to original finish, including provision for earthing attachment. (Without MCB / RCCB / Isolator).					
	a)	2 way	36	no.	508.00	18,288.00
	b)	4 way	6	no.	513.00	3,078.00
54	Providing double door, sheet steel, powder painted, SPN MCB Distribution Board [IP-43 protection and complete with tinned copper bus bar, copper connecting leads, neutral bar, earth bar & din bar] on masonry wall (concealed) / iron structure & mending good the damages to original finish, including inter-connection and provision for earthing attachment. (Without					

## BOQ-77

Sl. No.	Description of item		Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
					Unit rate (in Rs.)	Amount (in Rs.)
	MCB / RCCB / Isolator)					
	a)	6 way (2+6 module)	1	no.	1,902.00	1,902.00
	b)	8 way (2+8 module)	1	no.	2,111.00	2,111.00
	c)	10 way (2+10 module)	8	no.	2,275.00	18,200.00
55	Providing double door, sheet steel, powder painted, TPN MCB Distribution board [IP-43 protection and complete with tinned copper bus bar, copper connecting leads, neutral bar, earth bar & din bar] on masonry wall (concealed) / iron structure & mending good the damages to original finish, including inter-connection and provision for earthing attachment. (without MCB / RCCB / Isolator).					
	a)	4 way (8+12 module)	6	no.	4,074.00	24,444.00
56	Providing Cable End Box [with IP-43 protection] on masonry wall (concealed) / iron structure & mending good the damages to original finish.					
	a)	For 10 way SPN DB	8	no.	592.00	4,736.00
	b)	For 4 way TPN DB	6	no.	881.00	5,286.00

## BOQ-78

Sl. No.	Description of item		Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
					Unit rate (in Rs.)	Amount (in Rs.)
57	Providing Four Pole, 415 V, 50 Hz, Residual Current Circuit Breaker (RCCB) [with Sensitivity: 30 mA] on din rail of existing DBs and necessary connection.					
	a)	40 A	1	no.	3,102.00	3,102.00
	b)	63 A	1	no.	3,517.00	3,517.00
58	Providing Two Pole, 240 V, 50 Hz, Residual Current Circuit Breaker (RCCB) [with Sensitivity: 30 mA] on din rail of existing DBs and necessary connection.					
	a)	25 A	1	no.	2,292.00	2,292.00
	b)	40 A	1	no.	2,623.00	2,623.00
59	Providing 240 V / 415 V, 50 Hz, MCB (C characteristics, 10 kA Breaking capacity) on din rail of existing DBs and necessary connection.					
	a)	Single Pole, 6 A - 32 A	140	no.	225.00	31,500.00
	b)	Double Pole, 6 A - 32 A	40	no.	636.00	25,440.00
	c)	Double Pole , 40 A - 63 A	6	no.	1,008.00	6,048.00
	d)	Four Pole , 40 A - 63 A	6	no.	1,983.00	11,898.00

## BOQ-79

Sl. No.	Description of item	Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
				Unit rate (in Rs.)	Amount (in Rs.)
60	Providing Automatic Power Source Transfer assembly module (SPN/SPN), Single Phase (6000W) [ Mains 30 A/ Genset 30A] in double door, sheet steel, powder painted, [IP-43 protection and complete with earth bar & din bar] Junction Box [approx. size : 400 mm X 400 mm X 175 mm], made of 2 mm thick sheet steel duly painted (with Siemens Grey / Smoke Grey powder coating), complete with 3 sets (Ph + N) of LED Indication Lamps, separate 3 nos. din rail ( suitable for fixing 03 nos. double pole MCB / Isolator) and 03 nos. 4 pole stud type terminals (suitable for terminating 10 mm <sup>2</sup> Copper cable on each stud) on wall / iron structure & mending good the damages to original finish, including provision for earthing attachment.	1	set	8,946.00	8,946.00
61	Supply, Installation, Testing & Commissioning of TPN, 415V, Time Switch Panel Board, made of 2 mm thick CRCA Sheet Steel enclosure [wall mounted (may be partly concealed in wall), approx. size 400 mm X 200 mm X 200 mm], duly painted (with Siemens Grey / Smoke Grey powder coating), including supply & fixing of following time switch, contactor & MCB, necessary connection with suitable sizes of copper wires with lugs. Necessary stud type terminals to be provided for incoming connections.				



## BOQ-80

Sl. No.	Description of item		Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
					Unit rate (in Rs.)	Amount (in Rs.)
	INCOMING :	TPN, 32 A , 240V / 415 V, MCB (10kA breaking capacity )- 01 no.	1	set	18,400.00	18,400.00
	TIME SWITCH ARRANGEMENT	3 Pole Power Contactor – Thermal rating (AC – 1) at 415 V, 50 Hz – 32 A, Coil voltage – 240 V AC (50 Hz), Auxiliary contacts - 1 NO + 1 NC Digital Time Switch – Supply voltage – 240 V AC, 50 Hz, Contact rating – 16 A @ 250 V AC (Resistive) Shortest Switching Time – 01 min (daily) Bypass Switch (6 A)				
	OUTGOING:	SPN, 16 A , 240V , MCB (10kA breaking capacity) - 03 no.				
62	Supplying & laying of heavy, galvanized, mild steel tubes (including sockets) as per IS 1239 [with latest amendment].					
	a)	Supply				
	i)	50 mm (nominal bore)	42	m	552.00	23,184.00
	b)	Laying, including joining of tubes by sockets, if required.				
	I)	Over the culvert, canal, etc. (fixing on existing structural supports) or through walls, roads, etc. (through open excavation & refilling) or with				

## BOQ-81

Sl. No.	Description of item			Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
						Unit rate (in Rs.)	Amount (in Rs.)
			vertical structure (fixing using clamps / supports). The scope includes supply of materials, as required ( excepting main support structure for crossing the canal)], as per "Technical Specification".				
			i) upto 50 mm (nominal bore)	30	m	225.00	6,750.00
		II)	Through boring process.				
			i) upto 50 mm (nominal bore)	12	m	800.00	9,600.00
63	Supply & Laying of 1.1 kV grade, XLPE insulated, , power cable (FRLS), conforming to IS: 7098 (Part – I) , with latest amendment (if any), and as per "Technical Specification".						
	a)	Supply					
		I)	Galvanised steel armoured, stranded aluminium conductor.				
			i) 4 C X 6 mm <sup>2</sup>	100	m	113.00	11,300.00
			i) 3 ½ C X 25 mm <sup>2</sup>	120	m	203.00	24,360.00
	b)	Laying, Testing & Commissioning					
		I)	When laid in underground trench. The scope includes excavation, sand cushioning, protective top covering by bricks, tiles or slabs, refilling the trench, leveling up, restoring surface (duly rammed),etc.				

## BOQ-82

Sl. No.	Description of item			Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
						Unit rate (in Rs.)	Amount (in Rs.)
			[including supply of materials, as required], as per "Technical Specification".				
			i) 01 no. 1C / 3C / 3 ½ C / 4C cable, upto 50 mm <sup>2</sup> [with 08 nos. bricks per metre]	98	RM	184.00	18,032.00
		II)	When run through existing duct , trench, culvert , laid pipe, riser pipe, etc.				
			i) 01 no. 1C / 3C / 3 ½ C / 4C cable, upto 150 mm <sup>2</sup> .	42	RM	109.00	4,578.00
		III)	After cutting floor / pavement / wall and making holes, including embedding the cable at an average depth (through suitable casing pipe) and mending good the damages to original finish including removal of the rubbish.				
			i) 01 no. 1 C / 3C / 3 ½ C / 4C cable, upto 35 mm <sup>2</sup> , at an average depth of 75 mm.	112	RM	144.00	16,128.00
		IV )	When laid on existing Cable Tray and fixing by aluminium saddling ( approx. 300 mm interval) [including supply of materials, as required].				
			i) 01 no. 1 C / 3C / 3 ½	2	RM	12.00	24.00

## BOQ-83

Sl. No.	Description of item			Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
						Unit rate (in Rs.)	Amount (in Rs.)
			C / 4C cable, upto 50 mm <sup>2</sup> .				
		V)	When laid on wall and fixing by aluminium saddling (approx. 300 mm interval) , with earthing attachment in 10 SWG GI (Hot Dip) wire [including supply of materials, as required] , as necessary, including mending good damages to building works.				
			i) 01 no. 3C / 3 ½ C / 4C cable, upto 25 mm <sup>2</sup> .	16	RM	68.00	1,088.00
64	Laying of 3C X 6 mm <sup>2</sup> / 3C X 4 mm <sup>2</sup> , 1.1 kV grade XLPE Cable , through followng G I pipe / PVC pipe [ including supply & laying of G I Pipe / PVC pipe ] , at a depth of 0.5 m from ground surface or concealed in wall .						
	(a )	Through PVC pipe [ 25 mm diameter , having thickness not less than 3 mm]		12	RM	108.00	1,296.00
	(b )	Through G I pipe [ ISI marked, Medium Class, nominal bore -25 mm]		12	RM	275.00	3,300.00
65	Connecting the leads of following PVC / XLPE armoured / unarmoured cables with MCCBs / MCBs / SDFU/ connectors [after finishing the ends by crimping method , including supplying & fixing solderless sockets , tapes, anticorrosive paste & jointing materials], at Distribution						

## BOQ-84

Sl. No.	Description of item		Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
					Unit rate (in Rs.)	Amount (in Rs.)
	Board / Junction Box / SDFU:					
	a)	4 C X 6 mm <sup>2</sup> , 1.1 kV grade, Aluminium Conductor Cable.	12	set	53.00	636.00
	b)	4 C X 10 mm <sup>2</sup> , 1.1 kV grade, Aluminium Conductor Cable.	2	set	76.00	152.00
	c)	3 ½ C X 25 mm <sup>2</sup> , 1.1 kV grade, Aluminium Conductor Cable	12	set	125.00	1,500.00
	d)	3 ½ C X 50 mm <sup>2</sup> , 1.1 kV grade, Aluminium Conductor Cable	4	set	237.00	948.00
66	Providing double compression type gland complete with brass gland, brass ring & rubber ring for dust & moisture-proof entry of following XLPE insulated, armoured cables as given below :					
	a)	4 C X 6 mm <sup>2</sup> , 1.1 kV grade, Aluminium Conductor Cable.	12	set	131.00	1,572.00
	b)	4 C X 10 mm <sup>2</sup> , 1.1 kV grade, Aluminium Conductor Cable.	2	set	150.00	300.00
	c)	3 ½ C X 25 mm <sup>2</sup> , 1.1 kV grade, Aluminium Conductor Cable	12	set	173.00	2,076.00
	d)	3 ½ C X 50 mm <sup>2</sup> , 1.1 kV grade, Aluminium Conductor Cable	4	set	224.00	896.00
67	Providing "GLOW SIGN BOARD" [approx. size 1650 mm X 1050 mm X 150 mm] , made of GI sheet ( minimum thickness 0.45 mm) & unbreakable polycarbon top sheet (minimum thickness 2 mm, fixed up on aluminium angle). The "GLOW SIGN BOARD" should be fixed on wall ( with necessary fixing materials) and should be complete with lettering on top sheet, 06 nos. 1 X 9W – 10W 2		1	no.	10,916.00	10,916.00

## BOQ-85

Sl. No.	Description of item		Estimated Quantity		Estimated Cost (in Rs.) [excluding GST]	
					Unit rate (in Rs.)	Amount (in Rs.)
	ft Integrated LED Batten, including necessary connections & making earthing attachment and mending good damages to building works.					
68	Providing earthing, using GI (Hot Dip) wire of size 8 SWG and making connections with bolts, nuts, washers, etc., as required and mending good damages, if any.					
	a)	Supply of GI (Hot Dip) wire of size 8 SWG.	15	m	20.00	300.00
	b)	Laying & fixing of GI (Hot Dip) wire of size 8 SWG.	15	m	5.00	75.00
69	Providing earth busbar of galvanized (Hot Dip) MS flat 50 mm X 6 mm on wall having clearance of 6 mm from wall including providing drilled holes on the busbar complete with GI bolts, nuts, washers, spacing insulators etc., as required		2	no.	177.00	354.00
70	Interconnection of Earthing Stations by G.I. Strip (Hot Dip) of size 50 mm X 6 mm, with bolts, nuts, washers, etc.		10	m	225.00	2,250.00
71	Connecting the earth busbar to Earthing Station (with bolts, nuts, washers, etc.), including supply & laying of G.I. Strip (Hot Dip) of size 25 mm X 6 mm, using GI saddles or through PVC conduit of suitable size , including drilling holes.		20	m	216.00	4,320.00
72	Dismantling all existing old wiring, switch boards, Distribution Boards, Junction Boxes, light fittings, fans, etc. and depositing the same at the store of HDC (Township).		1	LS	9,930.00	9,930.00
			<b>Part B Total:</b>			Rs. 16,43,121.00

**Section- D**

<b>Part- A Total:</b>	Rs. 5,38,693.00
<b>Part- B Total:</b>	Rs. 16,43,121.00
<b>Part (A + B) Total:</b>	Rs. 21,81,814.00

**[Indian Rupees: Twenty One Lakh Eighty One Thousand Eight Hundred Fourteen only]**

## Summary of the BOQ

**SUB:- Tender for Section A: construction of new boundary wall in east side of the HDI building complex, modification of existing gates including other appurtenant civil works and providing & laying of paver blocks at Haldia Dock Institute Complex, HDC, Haldia.**

**Section B: Interior renovation including waterproofing works and other appurtenant civil works of Haldia Dock Institute Building, HDC, Haldia.**

**Section C: Construction of a new toilet complex including approach pathway at Haldia Dock Institute Complex, HDC, Haldia.**

**Section D: Electrical works for upcoming New Toilet Complex at HDI premises & up-gradation of Electrical Installations (including internal wiring & electrical appliances) of HDI Building and adjacent area at Residential Zone of Haldia Dock Complex, SMP, Kolkata.**

Sl. No.	Summary of the BOQ	Amount in Rs.
1	Section- A	49,73,354.85
2	Section- B	20,05,794.95
3	Section- C	22,86,705.54
4	Section- D	21,81,814.00
Total = Rs.		1,14,47,669.34

**[Indian Rupees: One Crore Fourteen Lakh Forty Seven Thousand Six Hundred Sixty Nine and Paise Three Four Only]**



**DECLARATION BY THE BIDDER**

(To be submitted on Company's Letter Head along with Techno Commercial Bid duly stamped and signed)

Sr. Dy. Manager (I&CF),  
Haldia Dock Complex.  
SMP, Kolkata

**SUB:- E- Tender for Section A: construction of new boundary wall in east side of the HDI building complex, modification of existing gates including other appurtenant civil works and providing & laying of paver blocks at Haldia Dock Institute Complex, HDC, Haldia.**

**Section B: Interior renovation including waterproofing works and other appurtenant civil works of Haldia Dock Institute Building, HDC, Haldia.**

**Section C: Construction of a new toilet complex including approach pathway at Haldia Dock Institute Complex, HDC, Haldia.**

**Section D: Electrical works for upcoming New Toilet Complex at HDI premises & up-gradation of Electrical Installations (including internal wiring & electrical appliances) of HDI Building and adjacent area at Residential Zone of Haldia Dock Complex, SMP, Kolkata.**

Dear Sir,

We do hereby confirm that our offer is strictly in accordance with the terms and conditions of the Tender Document without any deviation / condition.

We further confirm that Part-II of the bid does not contain any condition / deviation.

---

Signature of the Bidder with Office Seal.

Date:

Place:

**DECLARATION BY THE BIDDER**

(To be submitted on Company's Letter Head along with Techno Commercial Bid duly stamped and signed)

Sr. Dy. Manager (I&CF),  
Haldia Dock Complex.  
SMP, Kolkata

**SUB:- Tender for Section A: construction of new boundary wall in east side of the HDI building complex, modification of existing gates including other appurtenant civil works and providing & laying of paver blocks at Haldia Dock Institute Complex, HDC, Haldia.**

**Section B: Interior renovation including waterproofing works and other appurtenant civil works of Haldia Dock Institute Building, HDC, Haldia.**

**Section C: Construction of a new toilet complex including approach pathway at Haldia Dock Institute Complex, HDC, Haldia.**

**Section D: Electrical works for upcoming New Toilet Complex at HDI premises & up-gradation of Electrical Installations (including internal wiring & electrical appliances) of HDI Building and adjacent area at Residential Zone of Haldia Dock Complex, SMP, Kolkata.**

Dear Sir,

- a) The bidding firm has not been debarred / delisted by any Govt / Quasi Govt. / Public sector undertaking in India.
- b) The proprietor / partner(s)/ authorised signatory of the bidding firm is/are not associated with other firm bidding for the same work.

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Signature of the Bidder with Office Seal.

Date:

Place:

**CONCURRENT COMMITMENT(S) OF THE BIDDER**

Sl. No.	Full particulars of works to be executed concurrently by the bidder. (i) Name of work. (ii) Client. (iii) W.O. No. & Date.	Sanctioned Tender Value. (in Rs.)	Completion time as stated in tender.	Name and address to whom reference can be made.
1	(i)			
	(ii)			
	(iii)			
2	(i)			
	(ii)			
	(iii)			
3	(i)			
	(ii)			
	(iii)			
4	(i)			
	(ii)			
	(iii)			

**BIDDER'S PROFILE**

(To be submitted with Techno Commercial Bid)

The Bidders are also requested to furnish the following particulars:-

A) In case of Limited Company -

- 1) Name of Company :
- 2) Address of its present registered office. :
- 3) Date of its incorporation :
- 4) Full name and address of each of its Directors – any special particulars as to Directors if desire to be stated. :
- 5) Name, address and other necessary particulars of Managing Agents, if any appointed by the Company. :
- 6) Copies of Memorandum, Articles of Association (with the latest amendments, if any). :
- 7) Copies of audited balance sheets of the Company for the last two years. :

B) In case of a firm -

- 1) Name and address of the firm. :
- 2) When business started :
- 3) If registered a certified copy of certificate of registration. :
- 4) A certified copy of the Deed of Partnership :
- 5) Full name and address of each of the partners and the interest of each partner in the partnership – any special particulars as to partners if desired to be stated. :
- 6) Whether the firm pays income tax over Rs.10, 000/- per year :

C) In case of an Individual:

- 1) Full name and address of the Bidder any :  
special particulars of the Bidder if desired  
to be stated.
- 2) Name of the father of the Bidder. :
- 3) Whether the Bidder carries on business in :  
his own name or any other name.
- 4) When business was started and by whom. :
- 5) Whether any other person is interested in :  
the business directly or indirectly, if so,  
name and address etc. of such persons and  
the nature of such interest.
- 6) Whether the Bidder pays Income Tax over :  
Rs.10, 000/- per year.

Dated:

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(Full signature of Bidder)

**ABSTRACT FORM OF TENDER (UNPRICED)**

(To be submitted with Techno Commercial Bid)

I / We hereby tender for the under mentioned work for its execution within the specified time and in accordance, in all respects with the specifications, design, drawing and instructions in writing and with such materials as are provided for, by and in all other respects in accordance with such conditions so far as practicable.

(a) Name of Work. : **Tender for Section A: construction of new boundary wall in east side of the HDI building complex, modification of existing gates including other appurtenant civil works and providing & laying of paver blocks at Haldia Dock Institute Complex, HDC, Haldia.**

**Section B: Interior renovation including waterproofing works and other appurtenant civil works of Haldia Dock Institute Building, HDC, Haldia.**

**Section C: Construction of a new toilet complex including approach pathway at Haldia Dock Institute Complex, HDC, Haldia.**

**Section D: Electrical works for upcoming New Toilet Complex at HDI premises & up-gradation of Electrical Installations (including internal wiring & electrical appliances) of HDI Building and adjacent area at Residential Zone of Haldia Dock Complex, SMP, Kolkata.**

(c) Earnest Money : No earnest money required but the bidders should submit a “Bid Security Declaration” accepting that if they withdraw or modify their bids during period of validity of the offer, they will be suspended for three years.

(e) Time allowed for completion of the work : 12 (Twelve) Months

(f) Permanent I/T A/C No. :

(g) Maximum number of workmen to be engaged on any day. :

(h) Bank Details

Name of Bank:

Branch:

Branch Code:

Account Number:

IFS Code:-

(Signature of the Bidder)

Witness:

Address:

(Name in block letters)

Address:-

Occupation:-

**FORM OF TENDER**

(To be submitted with Techno Commercial Bid)

To

The Sr. Dy. Manager (I&CF),

Haldia Dock Complex

I/We \_\_\_\_\_  
\_\_\_\_\_ having examined the site of work, inspected the Drawings and read the specifications, General & Special Conditions of Contract and Conditions of the Tender, hereby tender and undertake to execute and complete all the works required to be performed in accordance with the Specification, Bill of Quantities, General & Special Conditions of Contract and Drawings prepared by or on behalf of the Trustees and at the rates & prices set out in the annexed Bill of Quantities within \_\_\_\_\_ months / weeks from the date of order to commence the work and in the event of our tender being accepted in full or in part. I / We also undertake to enter into a Contract Agreement in the form hereto annexed with such alterations or additions thereto which may be necessary to give effect to the acceptance of the Tender and incorporating such Specification, Bill of Quantities, Drawing and Special & General Conditions of Contract and I / We hereby agree that until such Contract Agreement is executed the said Specification, Bill of Quantities, Conditions of Contract and the Tender, together with the acceptance thereof in writing by or on behalf of the Trustees shall be the Contract.

I / We require \_\_\_\_\_ days / months preliminary time to arrange and procure the materials required by the work from the date of acceptance of tender before I We could commence the work.

I / We have deposited with the Trustees' Manager (Finance), HDC, vide Receipt No. \_\_\_\_\_ of \_\_\_\_\_ as Earnest Money.

I / We agree that the period for which the tender shall remain open for acceptance shall not be less than four months.

\_\_\_\_\_  
Dated: \_\_\_\_\_  
Seal)

(Signature of Bidder with

WITNESS :

Signature :

Name of the Bidder  
:

Name :

Address :

(In Block letters)

Address :

Occupation :

**CHECK LIST**

( TO BE FILLED- UP BY THE BIDDER)

1	Declarations a) The bidding firm has not been debarred / delisted by any Govt / Quasi Govt. / Public sector undertaking in India. b) The proprietor / partner(s)/ authorised signatory of the bidding firm is/are not associated with other firm bidding for the same work.	Declaration submitted	Yes / No
2	Application money towards cost of tender documents.	Deposited	Yes / No
3	Earnest Money	Deposited	Yes / No
4	Declaration as per Annex-I that no conditions / deviations have been added in Volume-II in the tender offer.	Submitted on company's letter head.	Yes / No
5	GST registration certificate.	Submitted	Yes / No
6	Valid Trade License.	Valid up to	
		Submitted	Yes / No
7	Professional Tax Clearance Certificate. / Upto date tax payment challan.	Valid up to	
		Submitted	Yes / No
8	Valid Employees' Provident Fund Account	Submitted	Yes / No
		Photo copy of latest payment challan of EPF submitted	Yes / No
9	ESI registration	Submitted	Yes / No
		Photo copy of latest payment challan of ESI submitted	Yes / No
10	Details of firm as per Bidder's Profile	Format fill-up	Yes / No
11	Concurrent Commitments of the Bidder	Format fill-up	Yes / No
12	Credential within seven years	i) Amount	
		ii) Amount	
		iii) Amount	
		Credentials as per pre-qualification criteria.	Yes / No
		Letter of award works and completion certificate from owners are enclosed.	Yes / No
13	Certified copies of audited balance sheet	i) Turnover amount and year	
		ii) Turnover amount and year	
		iii) Turnover amount and year	
		Certified by the CA / FA	Yes / No

Signature of the bidder with seal



## **General Conditions of Contract**

### **Forms and Agreements**

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**Sanctioned by the Trustees under Resolution No. 92 of the 6<sup>th</sup> Meeting held on 27<sup>th</sup> May, 1993**

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**Including Addendum Sanctioned by the Trustees Meeting held on July, 2014**

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**KOLKATA PORT TRUST**

**KOLKATA DOCK SYSTEM  
HALDIA DOCK COMPLEX**

**&**

**JULY , 2014**

## **GENERAL CONDITIONS OF CONTRACT**

	CLAUSE		PAGES
1.	<b>AMENDMENT TO GENERAL CONDITIONS OF CONTRACT</b>	...	GC 1
2.	<b>DEFINITION</b>	...	GC 2 – GC 3
3.	<b>DUTIES &amp; POWERS OF ENGINEER &amp; ENGINEER'S REPRESENTATIVE</b>	...	GC 3 – GC 5
4.	<b>THE TENDER/OFFER AND ITS PRE-REQUISITES</b>	...	GC 5 – GC 9
5.	<b>THE CONTRACT &amp; GENERAL OBLIGATIONS OF CONTRACTOR</b>	...	GC 9 – GC 14
6.	<b>COMMENCEMENT, EXECUTION AND COMPLETION OF WORK</b>	...	GC 14 – GC 17
7.	<b>TERMS OF PAYMENT</b>	...	GC 18 – GC 20
8.	<b>VARIATION AND ITS VALUATION</b>	...	GC 20 – GC 22
9.	<b>DELAY/EXTENSION OF COMPLETION TIME/LIQUIDATED DAMAGE/TERMINATION OF CONTRACT</b>	...	GC 22 – GC 24
10.	<b>MAINTENANCE AND REFUND OF SECURITY DEPOSIT</b>	...	GC 24 – GC 25
11.	<b>INTERPRETATION OF CONTRACT DOCUMENTS, DISPUTES &amp; ARBITRATION</b>	...	GC 25 – GC 27
12.	<b>FORMS GC-1, GC-2 , GC-3</b>		
13.	<b>FORM OF AGREEMENT</b>		
14.	<b>PROFORMA FOR B.G. FOR CONTRACT PERFORMANCE</b>		
15.	<b>INTEGRITY PACT DOCUMENT: PROFORMA</b>		
16.	<b>DRAFT Memorandum of Understanding between Ko.P.T. &amp; Transparency International India</b>		

**GC - 1**  
**AMENDMENT**  
**TO**

**GENERAL CONDITIONS OF CONTRACT**

**❖ CI-3.4 THE TENDER /OFFER & ITS PRE-REQUISITES**

Table under sub-clause (a)

<b>PREVIOUS</b>			<b>AS AMENDED</b>			
			For Works Contract		For Contract of Supplying Materials or Equipment only	
	For Works Contract	For Contract of Supplying Materials or Equipment only	Estimate d Value of Work	Amount of Earnest Money	Estimated Value of Work	Amount of Earnest Money
Up to Rs. 1,00,000.00	5% of the estimated value of work	1% of the estimated value of work	Up to Rs. 10 Crore	2% of the estimated value of work	Up to Rs. 1,00,000.00	1% of the estimated value of work
Over Rs. 1,00,000.00	2% of the estimated value of work subject to a maximum of Rs. 20,000/- and minimum of Rs. 5,000/-.	½% of the estimated value of work subject to a maximum of Rs. 10,000/- and minimum of Rs. 1,000/-.	Over Rs. 10 Crore	2% on first Rs. 10 Crore + 1% on the balance	Over Rs. 1,00,000.00	½% of the estimated value of work subject to a maximum of Rs. 10,000/- and minimum of Rs. 1,000/-.

**[ AMENDMENT SANCTIONED BY THE BOARD OF TRUSTEES VIDE RESOLUTION NO 210 OF THE TRUSTEES' MEETING HELD ON 26.02.2013 ]**

Table under sub-clause (d)

<b>PREVIOUS</b>			<b>AS AMENDED</b>		
Class of Registration	Amount Of Fixed Security	Financial Limit Of Each Tender	Class of Registration	Amount Of Fixed Security	Financial Limit Of Each Tender
<b>A</b>	Rs 10,000/-	Any tender priced upto Rs 2,00,000/-	<b>A</b>	Rs 50,000/-	Any tender priced up to Rs 10,00,000/-
<b>B</b>	Rs 5,000/-	Any tender priced upto Rs 1,00,000/-	<b>B</b>	Rs 25,000/-	Any tender priced upto Rs 5,00,000/-
<b>C</b>	Rs 2,500/-	Any tender priced upto Rs 50,000/-	<b>C</b>	Rs 15,000/-	Any tender priced upto Rs 3,00,000/-

**[ AMENDMENT SANCTIONED BY THE BOARD OF TRUSTEES VIDE RESOLUTION NO 82 OF THE TRUSTEES' MEETING HELD ON 12.10.2012 ]**

## 1. DEFINITIONS

- 1.0 In the contract, as here in after defined, the following words and expressions shall have the meaning herein assigned to them, except where the context otherwise required.
- 1.1 “Employer” or “Board” or “Trustees” means of the Board of Trustees for the Port of Calcutta, a body corporate under Section 3 of the Major Port Trusts Act, 1963, including their successors, representatives and assigns. Employer
- 1.2 “Chairman” means the Chairman of the Board and includes the person appointed to act in his place under Sections 14 and 14A of the Major Port Trusts Act, 1963 Chairman
- 1.3 “Contractor” means the person or persons, Firm or Company whose tender/offer has been accepted by the Trustees and includes the Contractor’s representatives, heirs, successor and assigns, if any, permitted by the Board/Chairman. Contractor
- 1.4 “Engineer” means the Board’s official who has invited the tender on its behalf and includes the Manager (Infrastructure & Civic Facilities) or other official as may be appointed from time to time by the Employer, with written notification to the Contractor, to act as Engineer for the purpose of the Contract, in place of the “Engineer” so designated. Engineer
- 1.5 “Engineer’s Representative” means any subordinate or Assistant to the Engineer or any other official appointed from time to time by the Engineer to perform the duties set forth in Clauses 2.4 to 2.6 hereof. Engineer’s Representative
- 1.6 “Work” means the work to be executed in accordance with the Contract and includes authorised “Extra Works” and ‘Excess Works” and “Temporary Works”. Works
- 1.7 “Temporary Works” means all temporary works of every kind required in or about the execution, completion or maintenance of the works and includes (without thereby limiting the foregoing definitions) all temporary erections, scaffolding, ladders, timbering, soaking vats, site offices, cement and other godowns, platforms and bins for stacking building materials, gantries, temporary tracks and roads, temporary culverts and mixing platforms. Temporary works
- 1.8 “Extra Works” means those works required by the Engineer for completion of the Contract which were not specifically and separately included in the schedule of items of the works i.e. (Bill of Quantities) of the tender. “Excess Works” means the required quantities of work in excess of the provision made against any item of the bill of Quantities. Extra works and Excess works
- 1.9 “Specifications” means the relevant and appropriate Bureau of Indian Standard’s specifications / International Standard’s Specifications (latest revisions) for materials and workmanship unless stated otherwise in the Tender. Specification

- 1.10 “Drawings” means the drawings referred to in the Tender and specification and any modification of such drawings approved in writing by the Engineer and such other drawings as may from time to time be furnished or approved in writing by the Engineer. Drawings
- 1.11 “Contract” means and includes the General and Special Conditions of Contract, Specifications, Drawings, priced Bill of Quantities, the Tender / Offer, the letter of acceptance of the Tender/Offer, the Contract Agreement, if separately entered into and the Schedule of Rates and Price, if any, adopted by the Trustees at their discretion. Contract
- 1.12 “Constructional Plant” means all appliances or things of whatsoever nature required or about the execution, completion or maintenance of the works or temporary works and includes (without thereby limiting the foregoing definition) all machinery and tools but does not include materials or other things intended to form or forming part of the permanent works. Constructional Plant
- 1.13 “Site” means the land, waterways and other places, on, under, in or THOROUGH which the works are to be executed by the Trustees for the purpose of the Contract. Site
- 1.14 “Contract Price” means the sum named in the letter of acceptance of the Tender/Offer of the Contractor, subject to such additions thereto and deductions therefrom as may be made by the Engineer under the provisions here in after contained. Contract Price
- 1.15 “Month” means English Calendar Month. Month
- 1.16 “Excepted Risks” are riot in so far as it is uninsurable, war, invasion, act of foreign enemies, hostilities) whether war be declared or not), Civil War, rebellion, revolution, insurrection or military or usurped power or use or occupation by the Trustees of any portion of the works in respect of which a certificate of completion has been issued (all of which are herein collectively referred to as the excepted risks). Excepted Risks
- 1.17 Word importing the singular only, also includes the plural and vice-versa where the context so requires. Singular/ Plural
- 1.18 The heading and marginal notes in these General Conditions of Contract shall not be deemed to be part thereof or be taken into consideration in the interpretation or construction thereof or of the contract. Headings/ Marginal Notes.
- 1.19 Unless otherwise stipulated the work “Cost” shall be deemed to include overhead costs of the Contractor, whether on or off the site. Cost
- 2.0 DUTIES & POWERS OF ENGINEER & ENGINEER’S REPRESENTATIVE.
- 2.1 The Contractor shall execute, compete and maintain the works in terms of the contract to the entire satisfaction of the Engineer and Shall comply with the Engineer’s direction on any matter whatsoever. Engineer’s Authority

- |     |   |  |
|-----|---|--|
| 2.2 | The Contractor shall take instructions from the Engineer and subject to limitation of Clause 2.5 hereof, from the Engineer's Representative.  | Authority of<br>Engineer's<br>Representative |
| 2.3 | <p><i>The Engineer shall have full power and authority :</i></p> <ul style="list-style-type: none"> <li>(a) to supply to the contractor from time to time during the progress of the works such further drawings and instructions as shall be necessary for the purpose of proper and adequate execution and maintenance of the works and the contractor shall carry out and be bound by the same.</li> <li>(b) to alter or modify the specification of any material and workmanship and to inspect the work at any time.</li> <li>(c) to order for any variation, alteration and modification of the work and for extra works.</li> <li>(d) to issue certificates as per contract.</li> <li>(e) to settle the claims &amp; disputes of the Contractor and Trustees, as the first referee.</li> <li>(f) To grant extension of completion time.</li> </ul>   | Engineer's<br>Power                          |
| 2.4 | <p><i>The Engineer's Representative shall :</i></p> <ul style="list-style-type: none"> <li>(i) watch and supervise the works.</li> <li>(ii) test and examine any material to be used or workmanship employed in connection with the work.</li> <li>(iii) have power to disapprove any material and workmanship not in accordance with the contract and the contractor shall comply with his direction in this regard.</li> <li>(iv) take measurements of work done by the contractor for the purpose of payment or otherwise.</li> <li>(v) order demolition of defectively done work for its reconstruction all by the Contractor at his own expense.</li> <li>(vi) have powers to issue alteration order not implying modification of design and extension of completion time of the work and</li> <li>(vii) have such other powers and authorities vested in the Engineer, which have been delegated to him in writing by the Engineer under intimation to the Contractor.</li> </ul> | Power of<br>Engineer's<br>Representative.    |

- 2.5 *Provided always that the Engineer's Representative shall have no power :* Limitation of Engineer's Representative's Power
- (a) to order any work involving delay or any extra payment by the Trustees,
  - (b) to make variation of or in the works; and
  - (c) to relieve the Contractor of any of his duties or obligations under the Contract.
- 2.6 Provided also as follows : Engineer's Overriding Power
- (a) Failure of Engineer's Representative to disapprove any work or materials shall not prejudice the power of the Engineer thereafter to disapprove such work or materials and to order the pulling down, removal, breaking-up thereof and re-constructing at the contractor's cost and the contractor shall have no claim to compensation for the loss if any sustained by him.
  - (b) If the contractor shall be dissatisfied by reason of any decision of the Engineer's Representative, he shall be entitled to refer the matter to the Engineer who shall thereupon confirm, reverse or vary such decision.
  - (c) Any written instructions or written approval given by the Engineer's Representative to the contractor, within the terms of delegation of power and authority vested in the Engineer to his Representative in writing, shall bind the contractor and the Trustees as though it had been given by the Engineer, who may from time to time make such delegation.
- 3.0 THE TENDER/OFFER AND ITS PRE-REQUISITES
- 3.1 The Contractor shall, before making out and submitting his tender/offer, be deemed to have inspected and examined the site, fully considered all factors, risks and contingencies, which will have direct and indirect impact on his expenses and profit from the work and shall be specifically deemed to have taken the following aspects into consideration : The tender must encompass all relevant aspects/issues.
- (a) The form and nature of the site and its surroundings including their sub-surface, hydrological, tidal and climatic conditions, the means of access to the site and all other local conditions, including the likely charges and costs for temporary way-leave, if any, required for the work. Site & Local condition.
  - (b) The drawings, specifications, the nature and extent of work to be executed and the quality, quantity and availability of the required materials and labour for the work and the need to execute the work to the entire satisfaction of the Engineer, and also by complying with the General and Special Conditions of Contract. Drawing/ Specification/ Nature & extent of work to be done.

- (c) The accommodation required for the workmen and site office, mobilisation/demobilisation and storage of all plant, equipment and Construction materials. Accommodation for Contractor's men/materials.
- (d) The sources and means of procurement of water for drinking, washing and execution of work, and source and availability of electrical power, all at Contractor's cost. Water for drinking etc. /Electrical power.
- (e) Payment of taxes and duties and compliance of all applicable statutes, ordinances and law together with the rules made thereunder, the rules, regulations and bye-laws of public bodies or any local or other authority by the Contractor, keeping the Trustees indemnified against penalties and liabilities of every kind arising from the Contractor's failure in such compliance. Payment of Taxes/duties and observance of all statutes.
- (f) Payment of all kinds of stamp-duty for executing the agreement or for any legal instrument including Bank Guarantees and Indemnity Bonds. Payment of Stamp Duty by the Contractor.

3.2 The Contractor's tender shall be in ink on the Tender Forms supplied by the Trustees, unless stipulated otherwise in the Notice Inviting the Tender and shall be faultless in figures and free from erasing. Corrections, if any, shall only be made by scoring out and initialling of the revised figure.

3.3 If required by the Engineer or the Trustees, the Contractors in their tender or subsequently, shall disclose the names of their owners/partners/share holders at the required points of time. The failure in this regard shall be treated as a breach and a contract, if entered into, shall be liable to be cancelled. Disclosure of Owner's name.

3.4 (a) Unless otherwise stipulated in the Notice Inviting Tender / Offer, every tender must be submitted with Earnest Money of the amount calculated as per the following scale. Earnest Money and Security Deposit.

Estimated Value of Work	Amount of Earnest Money	
	For Works Contract	For Contract of Supplying Materials or Equipment only
Up to Rs. 1,00,000=00	5% of the estimated value of work	1% of the estimated value of work
Over Rs. 1,00,000=00	2% of the estimated value of work subject to a maximum of Rs. 20,000/- and minimum of Rs. 5,000/-.	½% of the estimated value of work subject to a maximum of Rs. 10,000/- and minimum of Rs. 1,000/-.



- (b) Earnest Money shall be deposited with the Trustees' treasurer in cash or by Banker's Cheque of any Calcutta Branch of a Nationalised Bank of India drawn in favour of Calcutta Port Trust or in the form of any "Account Payee" Draft of any Nationalised Bank of India drawn in favour of "Calcutta Port Trust" and payable at Calcutta/Haldia, as the case may be, and the receipt granted therefor be kept attached to the Tender/Offer in the Sealed Cover. Method of Paying E.M.
- (c) Earnest Money of unaccepted tender shall be refunded without any interest THOROUGH A/c. Payee Cheque drawn on a Nationalised Bank of Calcutta / Haldia. Refund of E.M.
- (d) The enlisted (registered ) Contractors of the Trustees who have deposited fixed Security with the Trustees' FA & CAO / Manager (Finance) according to his Class of Registration, shall be exempt from depositing the Earnest Money, as per the following scale :
- | Class of Registration | Amount of Fixed Security | Financial Limit of Each Tender        |
|-----------------------|--------------------------|---------------------------------------|
| A                     | Rs. 25,000/-             | Any tender priced up to Rs.5,00,000/- |
| B                     | Rs. 10,000/-             | Any tender priced up to Rs.2,00,000/- |
| C                     | Rs. 5,000/-              | Any tender priced up to Rs.1,00,000/- |
- (e) (i) Tender submitted without requisite Earnest Money may be liable to rejection. Tender without EM liable to rejection.
- (ii) If before expiry of the validity period of his Tender/Offer, the tenderer amends his quoted rates or tender/offer making them unacceptable to the Trustees and/or withdraws his tender/offer, the Earnest Money deposited shall be liable to forfeiture at the option of the Trustees. Forfeiture of E.M. before Acceptance of offer.
- (f) The Earnest Money of accepted tender/offer shall be retained by the Trustees as part of the Security Deposit, for which a separate Treasury Receipt shall be issued to the Contractor after cancellation of the previous Receipt of Earnest Money. E.M. to be converted to part S.D.
- (g) Balance security for works contract shall be recovered by deduction from all progressive Bill (including final Bill, if necessary) @ 10% of the gross value of work in each such bill, so that the total recovery may not exceed the quantum computed as per the under noted percentages of the total value of work actually done up to the stage of completion. Mode of recovery of balance S.D.

Value of Work	% of Security Deposit for works contract.	% of Security Deposit For contract of supplying materials & equipment only.	Scale of S.D. recovery.
For works up to Rs.10,00,000/-.	10% (Ten percent)	1% (One percent)	
For works costing more than Rs.10,00,000/- and up to Rs.20,00,000/-	10% on first Rs.10,00,000/- + 7½% on the balance.	1% on first Rs.10,00,000/- + ½% on the balance.	
For works costing more than Rs.20,00,000/-	10% on first Rs.10,00,000/- + 7½% on the next Rs.10,00,000/- + 5% on the balance.	1% on first Rs.10,00,000/- + ½% on the next Rs.10,00,000/- + ¼% on the balance.	

(h) Balance Security for Contract of supplying materials and equipment computed in terms of the percentages given above, shall have to be deposited with the Trustees' Treasurer in advance and within 30 days from the date of placement of supply order, either in cash or by A/c. Payee Draft of a Nationalised Bank of India drawn in favour of Calcutta Port Trust and payable at Calcutta/Haldia, as the case may be. S.D. for supply contracts to be deposited in advance.

(i) No interest shall be paid by the Trustees to the Tenderer/Contractor on the amount of Earnest Money/Security Deposit held by the Trustees, at any stage. No interest payable on E.M. /S.D

3.5 (i) The Security Deposit shall refunded to the Contractor in terms of Clause 9.3 hereinafter and subject to deduction, if any, under the provision of Sub-clause 3.5 (ii) herein below. Id, however, the Contract provides for any maintenance period. 50% of the Security Deposit may be refunded against any of the treasury Receipt for that amount on expiry of half of the maintenance period and the balance deposit on the expiry of the said maintenance period and after the Engineer has certified the final completion of work in Form G.C.2 and the Contractor has submitted his "No Claim" Certificate in Form G.C.3. Mode of refund of S.D.

(ii) The Security Deposit/Earnest Money may be liable to forfeiture at the option of the Trustees, if the Contractor fails to carry out the work or to perform/observe any of the conditions of the Contract. The Trustees shall also be at liberty to deduct any of their dues from the Security Deposit, fixed Security, Earnest Money or from any sum due or to become due to the Contractor under any other contract. Forfeiture of S.D.

- 3.6 If stipulated in the contract as a Special Condition, the contractor shall have to submit to the Engineer a performance Bond in the form of an irrevocable guarantee from Calcutta/Haldia Branch, as the case may be, of any Nationalised Bank of India in the proforma annexed hereto and for the sum and period as mentioned in the letter of acceptance of the Tender/Offer, within 15 days from the date of such letter, failing which the Contract shall be liable to be terminated and the earnest money shall be liable to forfeiture; all at the discretion of the Engineer. The cost of obtaining this or any other Bank Guarantee and/or the revalidation thereof, wherever required, has to be borne by the Contractor and it shall be his sole responsibility to arrange for timely revalidation of such Bank Guarantee, failing which and for non-fulfilment of any contractual obligation by the Contractor, the Engineer and/or the Trustees shall be at liberty to raise claim against the Guarantee and/or enforce the same unilaterally.
- Bank Guarantee in lieu of Cash S.D. in certain cases
- 3.7 “Every Tenderer/ Bidder shall submit, in respect of a tender value of more than Rs 5 Crore, along with their tender comprising Special Conditions of Contract, General Conditions of Contract, BOQ, Earnest Money, etc. a document called Integrity Pact Agreement duly signed by their authorized representative. The Proforma of the Integrity Pact Agreement shall as specified in the GCC. In case of tender value more than Rs 5 Crore, the Integrity Pact Agreement is an essential part and parcel of bid document to be submitted by each tenderer, without which the tender shall not be considered.”
- 4.0 THE CONTRACT & GENERAL OBLIGATIONS OF CONTRACTOR
- 4.1 (a) The contract documents shall be drawn-up in English language.
- English language to be used
- (b) The contract shall be governed by all relevant Indian Acts. As applicable only within the jurisdiction of the High Court at Calcutta, India, including the following Acts :
- Applicability of laws on the contract
1. The Contract Act (India), 1872.
  2. The Major Port Trusts Act, 1963.
  3. The Workmen’s Compensation Act, 1923.
  4. The Minimum Wages Act, 1948.
  5. The Contract Labour (Regulation & Abolition) Act, 1970.
  6. The Dock Workers’ Act, 1948.
  7. The Arbitration and Conciliation Act (1996) (in the case of a definite Arbitration Agreement only).
- 4.2 After acceptance of his Tender/Offer and when called on to do so by the engineer or his representative, the contractor shall, at his own expense, enter into and execute a Contract Agreement to be prepared by him in the form annexed hereto. Until such Contract Agreement is executed, the other documents referred to in the definition of the term ‘Contract’ here-in-before, shall collectively be the Contract.
- Contractor to Execute Contract Agreement .
- 4.3 Several documents forming the contract are to be taken as mutually explanatory of one another. Should there be any discrepancy, ambiguity, omission or error in the various contract documents, the Engineer shall have the power to correct the same and his decision shall be final and binding on the parties to the Contract.
- Interpretation of contract documents –  
Engineers’ Power

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|---|--|
| <p>4. Two copies of the Drawings referred to in the general and special<br/>4 Conditions of Contract and in the Bill of Quantities, shall be furnished<br/>by the Engineer to the Contractors free of cost for his use on the work,<br/>but these shall remain the property of the Trustees and hence, the<br/>Contractor shall return them to the Engineer or his Representative on<br/>completion of the work, if not torn or mutilated on being regularly used<br/>at site.</p>  | <p>All Drawings<br/>are Trustees'<br/>property.</p>  |
| <p>4. The Contractor shall prove and make at his own expense any working or<br/>5 progress drawings required by him or necessary for the proper execution<br/>of the works and shall, when required, furnish copies of the same free of<br/>cost to the Engineer for his information and/or approval, without<br/>meaning thereby the shifting of Contractor's responsibility on the<br/>Engineer in any way whatsoever.</p>  | <p>Contractor to<br/>prepare<br/>working /<br/>progress<br/>drawings</p>   |
| <p>4. The Contractor shall not directly or indirectly transfer, assign or sublet<br/>6 the Contract or any part thereof without the written permission of the<br/>Engineer. Even if such permission be granted, the Contractor shall<br/>remain responsible (a) for the acts, defaults and neglect of any sub-<br/>contractor, his agents, servants or workmen as fully as if these were the<br/>acts, defaults or neglects of the Contractor himself or his agents, servants<br/>or workmen and (b) for his full and entire responsibility of the contract<br/>and for active superintendence of the works by him despite being sublet,<br/>provided always that the provision of labourers on a "piece rate" basis<br/>shall not be deemed to be sub-letting under this clause.</p> | <p>Contractor<br/>cannot sub-let<br/>the work</p>  |
| <p>4. Unless otherwise specified, the Contractor shall be deemed to have<br/>7 included in his Tender/Offer all his cost for supplying and providing all<br/>constructional plant, temporary work. Materials both for temporary and<br/>permanent works, labour including supervision thereof, transporting to<br/>and from the site and in and about the work, including loading,<br/>unloading, fencing, watching, lighting, payment of fees, taxes and duties<br/>to the appropriate authorities and other things of every kind required for<br/>the construction, erection, completion and maintenance of the work.</p>   | <p>Contractors'<br/>price is<br/>inclusive of all<br/>costs</p>  |
| <p>4. The Contractor shall be solely responsible for the adequacy, stability and<br/>8 safety of all site operations and methods of construction, even if any<br/>prior approval thereto has been taken from the Engineer or his<br/>Representative. The Contractor shall not be responsible for the<br/>correctness of the design or specification of the Temporary and<br/>Permanent works formulated by the Engineer; but the Contractor shall be<br/>fully responsible for the correct implementation thereof, as also for any<br/>design and specification prepared/proposed/used by the Contractor.</p>   | <p>Contractor is<br/>responsible for<br/>all<br/>construction<br/>process,<br/>except for<br/>correctness of<br/>design and<br/>specification<br/>formulated by<br/>the Engineer</p> |
| <p>4. Whenever required by the Engineer or his representative, the Contractor<br/>9 shall submit to him the details of his (a) programme for execution of the<br/>work, (b) proposed procedure and methods of work, (c) proposed<br/>deployment of plant, equipment, labour, materials and temporary works.<br/>The submission to and/or any approval by the Engineer or his<br/>Representative to any such programme or particulars shall not relieve the<br/>Contractor of any of his obligations under the contract.</p>   | <p>Contractor to<br/>submit his<br/>programme of<br/>work</p>  |

If for any reason the contractor be unable to adhere to his earlier programme, he shall submit his revised programme for completion of work within the stipulated time whenever asked to do so.

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| 4.10 | Necessary and adequate supervision shall be provided by the Contractor during execution of the works and as long thereafter as the Engineer or his representative shall consider necessary during the maintenance period. The Contractor or his competent and authorised agent or representative shall be constantly at site and instructions given to him by the Engineer or his representative in writing shall be binding upon the Contractor subject to limitation in Clause 2.5 hereof. The Contractor shall inform the Engineer or his representative in writing about such representative/agent of him at site.  | Contractor to supervise the works  |
| 4.11 | The Contractor shall employ in execution of the Contract only qualified careful and experienced persons and the Engineer shall be at liberty to direct the Contractor to stop deployment of any of his staff, workmen or official at site and the Contractor shall within 48 hours comply with such instruction without any demur whenever the Engineer shall feel that the deployment of the person concerned will not be conducive to the proper and timely completion of the work.   | Contractor to deploy qualified men and Engineer's power to remove Contractor's men |
| 4.12 | The Contractor shall be responsible for the true and proper setting out of the works in relation to reference points/lines/levels given by the Engineer in writing. The checking of any setting-out or of any alignment or level by the Engineer or his Representative shall not in any way relieve the contractor of his responsibility for the correctness thereof and he shall fully provide protect and preserve all stakes, templates, bench marks, sight rails, pegs, level marks, profile marks and other things used in setting out the works.  | Contractor is responsible for line, level, setting out etc.                        |
| 4.13 | From the commencement of the works till issue of the completion certificate in Form G.C.1, vide Clause 5.12 hereof, the contractor shall take full responsibility for the care thereof. Save for the excepted risks, any damage, loss or injury to the work or any part thereof shall be made good by the Contractor at his own cost as per instruction and to the satisfaction of the engineer, failing which the Engineer or his Representative may cause the same to be made good by any other agency and the expenses incurred and certified by the Engineer shall deem proper. This Clause will not apply to that part of the work, which might have been taken over by the Trustees on partial completion of the work and in such case the Contractor's obligation will be limited to repairs and replacement for manufacturing or construction defects during the Maintenance period (Guarantee Period) as per the directions of the Engineer as also for defects/damages if any caused to the work by the Contractor during such repairs and replacement in the maintenance period. | Contractor is responsible to protect the work                                      |

- 4.1 The Contractor shall at his own cost protect support and take all Contractor is  
4 precautions in regard to the personnel or structure or services or responsible  
properties belonging to the Trustees or not which may be interfered for all  
with or affected or disturbed or endangered and shall indemnify and damages to  
keep indemnified the Trustees against claim for injury, loss or damage other  
caused by the Contractor in connection with the execution and structures /  
maintenance of the work to the aforesaid properties, structures and persons  
services and/or to any person including the Contractor's workmen. caused by  
Cost of Insurance Cover, if any, taken by the Contractor shall not be him in  
reimbursed by the Trustees, unless otherwise stipulated in the executing the  
Contract. work.
- 4.1 The Contractor shall immediately inform the Engineer's Fossils,  
5 Representatives if any fossil, coins, articles of value or antiquity and Treasure  
structures and other remains or things of geological or archaeological travois, etc.  
importance be discovered at site which shall remain the property of the are Trustees'  
Trustees and protect them from being damaged by his workmen and property  
arrange for disposal of them at the Trustees' expense as per the  
instruction of the Engineer's Representative.
- 4.1 The Contractor shall be deemed to have indemnified and shall Contractor to  
6 indemnify the Trustees against all claims, demands, actions and Indemnify the  
proceedings and all costs arising therefrom on account of : Trustees  
against all  
(a) Infringement of any patent right, design, trademark or name or claims for  
other protected right in connection with the works or temporary loss, damage,  
work. etc.
- (b) Payment of all royalties, rent, toll charges, local taxes, other  
payments or compensation, if any, for getting all materials and  
equipment required for the work.
- (c) Unauthorised obstruction or nuisance caused by the contractor in  
respect of Public or Private or Private road, railway tracks,  
footpaths, crane tracks, waterways, quays and other properties  
belonging to the Trustees or any other person.
- (d) Damage/injury caused to any highway and bridge on account of  
the movement of Contractor's plants and materials in connection  
with the work.
- (e) Pollution of waterway and damage caused to river, lock, sea-wall  
or other structure related to waterway, in transporting contractor's  
plants and materials.
- (f) The Contractor's default in affording all reasonable facilities and  
accommodation as per the direction of the Engineer or his  
Representative to the workmen of the Trustees and other agencies  
employed by or with the permission and/or knowledge of the  
Trustees on or near the site of work.
- 4.1 Debris and materials, if obtained by demolishing any property, Dismantled  
7 building or structure in terms of the Contract shall remain the property materials  
of the Trustees. Trustees'  
property

- 4.18 The Contractor's quoted rates shall be deemed to have been inclusive of the following :
- Contractor's quoted rates/price must be all inclusive
- (a) Keeping the site free of unnecessary obstruction and removal from site of constructional plant wreckage, rubbish, surplus earth or temporary works no longer required.
  - (b) Cleaning and removal from site all the surplus materials of every kind to leave the site clean and tidy after completion of the work, without which payment against final bill may be liable to be withheld.
  - (c) Precautionary measures to secure efficient protection of Docks, the River Hooghly and other waterways against pollution of whatever nature during execution and maintenance of the works and to prevent rubbish, refuse and other materials from being thrown into the water by the Contractor's men or those of his agency.
  - (d) Making arrangements for deployment of all labourer and workers, local or otherwise including payment for their wages, transport, accommodation, medical and all other statutory benefits and entry permits, wherever necessary.
  - (e) Making arrangements in or around the site, as per the requirements of local authority or the Engineer or his Representative for preventing (i) spread of any infectious disease like smallpox, cholera, plague or malaria by taking effective actions for destruction of rats, mice, vermin, mosquitoes, etc. and by maintaining healthy and sanitary condition, (ii) illegal storage and distribution of Drugs, Narcotics, Alcoholic liquor, Arms and Ammunitions, (iii) unlawful, riotous or disorderly conduct of the Contractor's or his Sub-Contractor's workmen, (iv) deployment of workmen of age less than 16 years.
- 4.19 Every direction or notice to be given to the Contractor shall be deemed to have been duly served on or received by the Contractor, if the same is posted or sent by hand to the address given in the tender or to the Contractor's Site Office or to the Registered Office of the Contractor. The time mentioned in these conditions for doing any act after direction or notice shall be reckoned from the time of such posting or despatch.
- Notice to Contractor.
- 4.20 The Contractor and his Sub-contractor or their agents and men and any firm supplying plant, materials and equipment shall not publish or caused to be published any photographs or description of the works without the prior authority of the Engineer in writing.
- Contractor not to publish photograph or particulars of work

- 4.2 The Contractor shall at the Trustees' cost to be decided by the Contractor to  
1 Engineer render all reasonable facilities and Co-operation as per provide  
direction of the Engineer or his representative to any other facilities to  
Contractor engaged by the Trustees and their workmen to the outsiders  
Trustees' own staff and to the men of other Public Body on or  
near the site of work and in default the Contractor shall be liable  
to the Trustees for any delay or expense incurred by reason of  
such default.
- 4.2 The work has to be carried out by the Contractor causing the Work to cause  
2 minimum of hindrance for any maritime traffic or surface traffic. minimum  
possible  
hindrance to  
traffic  
movement
- 4.2 All constructional plants, temporary works and materials when Trustees' lien  
3 brought to the site by the Contractor shall be deemed to be the on  
property of the Trustees who will have lien on the same until the Contractor's  
satisfactory completion of the work and shall only be removed Plant &  
from the site in part or in full with the written permission of the Equipment.  
the Engineer or his Representative.
- 5.0 COMMENCEMENT, EXECUTION AND COMPLETION OF WORK.
- 5.1 The Contractor shall commence the work within 7 days of the Preliminary  
receipt of Engineer's letter informing acceptance of the time to  
Contractor's tender/offer by the Trustees or within such commence  
preliminary time as mentioned by the Contractor in the Form of work an  
Tender or the time accepted by the Trustees. The Contractor maintenance of  
shall then proceed with the work with due expedition and steady rate of  
without delay, except as may be expressly sanctioned or ordered progress  
by the Engineer or his Representatives, time being deemed the  
essence of the contract on the part of the contractor.
- 5.2 The Contractor shall provide and maintain a suitable office at or Contractor's  
near the site to which the Engineer's Representative may send site office  
communications and instructions for use of the Contractor.
- 5.3 Unless specified otherwise in the contract or prior permission of Contractor to  
the Engineer has been taken, the contractor shall not execute the observe  
work beyond the working hours observed by the Engineer's Trustees'  
Representative and on Sundays and Holidays observed in the working hours  
Trustees' system, except in so far as it becomes essential on  
account of tidal work or for safety of the work. If the progress of  
the work lags behind schedule or the work has been endangered  
by any act or neglect on the part of the contractor, then the  
Engineer or his Representative shall order and the contractor at  
his own expense shall work by day and by night and on Sundays  
and Public Holidays. Any failure of the Engineer or his  
Representative to pass such an order shall not relieve the  
contractor from any of his obligations. The Engineer's decision  
in this regard shall be final binding and conclusive.



- 5.4 Unless stipulated otherwise in the contract all materials required for the work shall be procured and supplied by the contractor with the approval of the Engineer or his Representative and subject to subsequent testing as may be required by the Engineer or his Representative. The Engineer shall exercise his sole discretion to accept any such materials. Contractor to supply all materials as per requirement of the Engineer or his representative
- 5.5 Unless stipulated otherwise in the contract all materials, workmanship and method of measurement shall be in accordance with the relevant Codes (Latest Revision) of the Bureau of Indian Standards and the written instructions of the Engineer or his Representative. Where no specific reference is available in the contract, the material and workmanship shall be of the best of their respective kinds to the satisfaction of the Engineer. Materials & Works
- 5.6 Samples shall be prepared and submitted for approval of the Engineer or his representative, whenever required to do so, all at the Contractor's cost. Contractor to submit samples for approval
- Unless stipulated otherwise in the contract, the cost of any test required by the Engineer or his representative in respect of materials and workmanship deployed on the work, shall be borne by the Contractor. Contractor to arrange all testing at his own cost.
- 5.8 Regarding the supply of any materials by the Trustees to the contractor in accordance with the contract, the following conditions shall apply :
- (a) The Contractor shall, at his own expense, arrange for transporting the materials from the Trustees' Stores, watching, storing and keeping them in his safe custody, furnishing of statement of consumption thereof in the manner required by the Engineer or his representative, return of surplus and empty container to the Trustees' Stores as per the direction of the Engineer or his Representative. The Contractor shall account for and look after the Trustees' materials
- (b) Being the custodian of the Trustees' materials, the contractor shall remain solely responsible for any such materials issued to him and for any loss or damage thereof for any reason other than "Excepted Risks", the Contractor shall compensate the Trustees' in the manner decided by the Engineer and shall at no stage remove or cause to be removed any such material from the site without his permission in writing. Contractor to compensate for loss and damage to Trustees' materials
- (c) The Trustees' materials will generally be supplied in stages and in accordance with the rate of progress of work but except for grant of suitable extension of completion time of work as decided by the Engineer. The Contractor shall not be entitled to any other compensation, monetary or otherwise, for any delay in the supply of Trustees' materials to him. The Contractor shall, however, communicate his requirement of such materials to the Engineer from time to time. Delay in supply of Trustees' materials will only entitle the Contractor for extension of completion time of work

- (d) Unless stipulated otherwise in the contract, the value of the Trustees' materials issued to the contractor shall be recovered from the contractor's bills and/or any of his other dues, progressively according to the consumption thereof on the work and/or in the manner decided by the Engineer or his representative and at the rate/s stipulated in the contract. These rates shall only be considered by the contractor in the preparation of his tender/offer and these will form the basis of escalation/variation, if in future the contractor is required to procure and provide any such material on the written order of the Engineer consequent on the Trustees' failure to effect timely supply thereof. Recovery from Contractor for Trustees' materials under normal circumstances
- (e) If the Engineer decides that due to the contractor's negligence, any of the Trustees' materials issued to the contractor has been – (i) lost or damaged, (ii) consumed in excess of requirement and (iii) wasted by the contractor in excess of normal wastage, then the value thereof shall be recovered from the contractor's bills or from any of his other dues, after adding 19 ¼% extra over the higher one of the followings - Recovery from Contractor for Trustees' materials under other circumstances.

(1) The issue rate of the materials at the Trustees' Stores and

(2) The market price of the material on the date of issue as would be determined by the Engineer.

- 5.9 The Engineer or his Representative shall have the power to insect any material and work at any time and to order at any time – (I) for removal from the site of any material which in his opinion is not in accordance with the contract or the instruction of the engineer or his representative, (ii) for the substitution of the proper and suitable materials, or (iii) the removal and proper re-execution of any work which in respect of material and workmanship is not in accordance with the contract or the instructions of the Engineer. The Contractor shall comply with such order at his own expense and within the time specified in the order. If the contractor fails to comply, the Engineer shall be at liberty to dispose any such materials and re-do any work in the manner convenient to the Trustees by engaging any outside agency at the risk and expense of the contractor and after giving him a written prior notice of 7 days. Contractor to replace materials/work not acceptable to the Engineer or his Representative
- 5.10 No work shall be covered up and put out of view by the contractor without approval of the Engineer or his Representative and whenever required by him, the contractor shall uncover any part or parts of the work or make openings in or THOROUGH the same as may be directed by the Engineer or his representative from time to time and shall reinstate or make good those part of works thus affected to the satisfaction of the Engineer, all at the cost of the contractor. The Trustees shall reimburse such cost as determined by the Engineer, if the initial covering up was with prior written order of the Engineer or his Representative. Contractor to seek approval of Engineer or his Representative before covering up any portion of work

- 5.11 On a written order of the Engineer or his Representative, the Contractor to suspend work on Order from Engineer or his Representative
- contractor shall delay or suspend the progress of the work till such time the written order to resume the execution is received by him. During such suspension the contractor shall protect and secure the work to the satisfaction of the Engineer or his Representative. All extra expenses in giving effect to such order shall be considered by the Trustees, unless such suspension is –

- (a) otherwise provided for in the contract, or
- (b) necessary by reason of some default on the part of the contractor, or
- (c) necessary by reason of climatic conditions on the site, or
- (d) necessary for proper execution of the works or for the safety of the works or any part thereof.

The Engineer shall settle and determine such extra payment and/or Extension of completion time to be allowed to the contractor, as shall, in the opinion of the Engineer be fair and reasonable, and the same shall be final and binding on the Contractor.

- 5.11. If at any time before or after commencement of the work the Trustees do not require the whole of the work tendered for the Engineer shall notify the same to the contractor in writing and the contractor shall stop further works in compliance of the same. The Contractor shall not be entitled to any claim for compensation for underived profit or for such premature stoppage of work or on account of curtailment of the originally intended work by reason of alteration made by the Engineer in the original specifications, drawings, designs and instructions.

- 5.12 When the whole of the work has been completed to the satisfaction of the Engineer and has passed any final test prescribed in the contract, the contractor shall, within 21 days of submission of his application to the Engineer, be entitled to receive from him a certificate for completion of work in Form G.C.1, annexed hereto. If any part of the total work having been completed to the satisfaction of the Engineer, be taken over and/or used by the Trustees, the Contractor shall on application be entitled to partial completion certificate in the Form G.C.1 indicating the portion of the work covered by it, so that the Contractor's liability during maintenance period of the contract, if any, shall commence from the date mentioned in such certificate so far as the completed portion of the work is concerned.
- Completion Certificate G.C.1.

## 6.0 TERMS OF PAYMENT :

- 6.1 No sum shall be considered as earned by or due to the Contractor in respect of the work till final and satisfactory completion thereof and until a certificate of final completion in Form G.C.2 has been given by the Engineer. All interim payments are advances till issue of Certificate in Form G.C.2
- On account payments, if any, made prior to issue of the certificate in Form G.C.2, shall all be treated as mere advance, which shall stand recoverable in full or in part, if the Engineer so decides in the context of Contractor's unfulfilled contract condition, if any.
- 6.2 All payments shall be made to the Contractor only on the basis of measurements of actual work done, as recorded in the Trustees' measurement books and at accepted tendered or at agreed rates, as the case may be, except as otherwise provided in the contract and when the Engineer decides any other rate for change in the scope of work or omission, if any, on the part of the Contractor. Payment on the basis of measurements at agreed rates.
- 6.3 For work of sanctioned tender value more than Rs.50,000/- or having an initially stipulated completion period of 4 months or more, on account payments may be made at the discretion of the Engineer or his Representative at intervals deemed suitable and justified by him. Provided always that subject to execution of work of substantial value in the context of the contract price, the interval of such on account payments shall be decided by the Engineer or his Representative, which shall ordinarily not be less than 1 month in between two payments for on account bill and/or advance. Limitation for on account payment
- 6.4 Measurement for works done shall be progressively taken by the Engineer's Representative and entered in the Trustees' Measurement Book, at intervals deemed suitable and proper by him and/or the Engineer. The Contractor or his duly accredited Representative or Agent shall remain present at the time of such measurement and assist the engineer's Representative in every manner required by him. After the measurements taken have been entered in the Measurement Book, the Contractor or his Agent shall sign the Measurement Book at the end of such Measurements over the Contractor's Rubber Stamp as a token of acceptance of all such measurements, recorded above and prior to such signature. If the Contractor or his Agent fails to participate even after 3 days written notice from the Engineer's Representative, the measurement shall be taken ex-parte by the Engineer's Representative and those shall be accepted by the Contractor. Recording of measurements

- 6.5 Based on the quantum of work and the value thereof computed in the Measurement Book, the Contractor shall type out his bill in the proforma approved by the Engineer and submit the same to the Engineer's Representative in quadruplicate, duly signed by him or his accredited Agent over his Rubber Stamp. The Engineer or his Representative may in his absolute discretion, allow advance payment against such bill to the extent of an amount not exceeding 75% of the "net payable" sum of the said bill, subject to adjustment thereof against the bill at the time of checking and auditing the bill at the Trustees' end. The measurement Book will not be handed over to the Contractor; but he will obtain the abstracts of quantities, amounts and recoveries to type out the bill. Contractor to prepare and submit his bills
- 6.6 At the discretion of the Engineer or his Representative and only in respect of accepted offers/where estimated amount put to tender would be Rs.2,00,000/- or more, advance payment may be made to the extent of 75% of the value of any material purchased and brought to the site by the Contractor. Provided always that –
- (i) the materials shall, in the opinion of the Engineer or his Representative be of imperishable nature, Advance payment against Non-perishable materials
  - (ii) the value of such materials shall be assessed by the engineer or his Representative at their own discretion,
  - (iii) a formal agreement has been drawn up with the contractor, under which the Trustees secure a lien on the contractor's materials,
  - (iv) the materials are safe-guarded by the contractor against losses, shortage and misuse due to the contractor postponing the execution of the work or otherwise,
  - (v) in the event of storage of such materials within the Trustees' protected areas in the Docks, the contractor shall submit an Indemnity Bond in the proforma and manner acceptable to Trustees' whereby the contractor shall indemnify the Trustees against all financial loss/damage, on account of loss/damage to such materials for whatever reasons,

(vi) in the event of storage of such materials outside the Trustees' protected areas the Contractor shall submit to the Engineer an irrevocable Bank Guarantee favouring the Trustees and for the same sum as is being advance, in the proforma and manner acceptable to the Trustees. The Guarantee shall be of a Calcutta/Haldia Branch of any Nationalised Bank or a Schedule Commercial Bank, as the case may be, acceptable to the Trustees and shall remain valid till the anticipated period of consumption of such materials in the work. The Bank Guarantee must bear an undertaking by the issuing Bank guaranteeing automatic payment of the guaranteed sum to the Trustees by the Bank on the date of expiry of the validity of the Guarantee, unless with the prior written approval of the Engineer on behalf of the Trustees, the Bank has extended the validity of the Guarantee.

(vii) The amount of advance shall be recoverable from the contractor's bills or any other dues, progressively with the consumption of the materials on the basis of quantity consumed. Consequent on full recovery of the advance the Indemnity Bond/Bank Guarantee, vide Sub-clause (v) & (vi) above, shall be returned to the Contractor duly discharged by the Engineer on behalf of the Trustees.

6.7	No certificate of the Engineer or his representative shall protect the Contractor against or prevent the Trustees from obtaining repayment from the Contractor, in case the Engineer or his representative should overcertify for payment or the Trustees should over-pay the Contractor on any account.	Recovery for wrong and over payment
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6.8	No claim for interest shall be admissible or payable to the Contractor at any stage and in respect of any money or balance or Bank Guarantee, which may be due to the Contractor from the Trustees, owing to dispute or otherwise or for any delay on the part of the Trustees in making interim or final payment or otherwise.	Interest not admissible to Contractor
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7.0 VARIATION AND ITS VALUATION :

7.1	The Quantities set out in the Bill of Quantities of the tender shall be treated as estimated quantities of the work and shall never be deemed as actual or correct quantities of the works to be executed by the contractor in fulfilment of his obligation under the contract.	Quantities in Bill of Quantities of Tender
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7.2	The Engineer shall have the power to order the Contractor in writing to make any variation of the quantity, quality or form of the works or any part thereof that may, in his opinion, be necessary and the Contractor upon receipt of such an order shall act as follows :	Engineer's power to vary the works
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- 7.2 (a) Increase or decrease the quantity of any work included in the contract.
- (b) Omit any work included in the contract.
- (c) Change the Character or quality or kind of any work included in the contract.
- (d) Change the levels, lines, position and dimensions of any part of the work, and
- (e) Execute extra and additional work of any kind necessary for completion of the works
- 7.3 No such variation shall in any way vitiate or invalidate the contract or be treated as revocation of the contract, but the value (if any) of all such variations evaluated in accordance with the Engineer's sole decision shall be taken into account and the contract price shall be varied accordingly. Variation by engineer do not vitiate the contract
- 7.4 Provided always that written order of the Engineer shall not be required for increase or decrease in the quantity of any work upto 15% where such increase or decrease is not the result of any variation order given under this clause but is the result of the quantities exceeding or being less than those stated in the bill of quantities. Provided also that verbal order of variation from the Engineer shall be complied with by the Contractor and the Engineer" subsequent written confirmation of such verbal order shall be deemed to be an order in writing within the meaning of this clause. Where written order for variation is not needed
- 7.5 (a) The Contractor shall not be entitled to any claim of extra or additional work unless they have been carried out under the written orders of the Engineer. Payment for extra or additional, or omitted work or substituted work, Engineer's powers
- (b) The Engineer shall solely determine the amount (if any) to be added to or deducted from the sum named in the tender in respect of any extra work done or work omitted by his order.
- (c) All extra, additional or substituted work done or work omitted by order of the Engineer shall be valued on the basis of the rates ad prices set out in the contract, if in the opinion of the Engineer, the same shall be applicable. If the contract does not contain any rates or prices directly applicable to the extra, additional or substituted work, then the Engineer may decide the suitable rates on the basis of Schedule of Rates (including surcharge in force at the time of acceptance of tender), if any, adopted by the Trustees with due regard to the accepted contractual percentage, if any thereon. In all other cases the Engineer shall solely determine suitable rates in the manner deemed by him as fair and reasonable, and his decision shall be final, binding and conclusive.

- (d) If the nature or amount of any omission or addition relative to the nature or amount of the whole of the contract work or to any part thereof shall be such that, in the opinion of the Engineer, the rate of prices contained in the contract for any item of the works or the rate as evaluated under sub-clauses (b) and (c) of this clause, is by reason of such omission or addition rendered unreasonable or in-applicable, the Engineer shall fix such other rate or price as he deems proper and the Engineer's decision shall be final, binding and conclusive.

## 8.0 DELAY / EXTENSION OF COMPLETION TIME / LIQUIDATED DAMAGE / TERMINATION OF CONTRACT

- 8.1 Should the quantum of extra or additional work of any kind or delayed availability of the Trustees' materials to be supplied as per contract or exceptionally adverse climatic conditions and natural phenomenon or strikes, lock-outs, civil commotion or other special circumstances of any kind beyond the control of the Contractor, cause delay in completing the work, the contractor shall apply to the Engineer in writing for suitable extension of completion time within 7 days from the date of occurrence of the reason and the Engineer shall thereupon consider the stated reasons in the manner deemed necessary and shall either reject the application or determine and allow in writing the extension period as he would deem proper for completion of the work with or without the imposition of "Liquidated Damage" Clause (No.8.3 hereof) on the Contractor and his decision shall be final and binding on the Contractor. If an extension of completion time is granted by the Engineer without imposition of liquidated damage, from the Clause No.8.3 of the Liquidated damage shall apply from its date of expiry, if the work be not completed within the extended time, unless stated otherwise in the decision communicated by the Engineer, as aforesaid. Extension of completion time
- 8.2 (a) If the Contractor fails to complete the work within the stipulated dates or such extension thereof as communicated by the Engineer in writing, the Contractor shall pay as compensation (Liquidated Damage) to the Trustees and not as a penalty, ½% (half percent) of the total value of work (contract piece) as mentioned in the letter of acceptance of the tender/offer, for every week or part thereof the work remains unfinished. Provided always that the amount of such compensation shall not exceed 10% of the said value of work. The amount of Liquidated damages shall be determined by the Engineer, which shall be final and binding. 'Liquidated Damage' and other compensation due to Trustees



(b) Without prejudice to any of their legal rights, the Trustees shall have the power to recover the said amount of compensation/damage in Sub-clause (a) of this clause, from any money due or likely to become due to the Contractor. The payment or deduction of such compensation/damage shall not relieve the Contractor from his obligation to complete the work or from any of his other obligations/liabilities under the contract and in case of the Contractor's failure and at the absolute discretion of the Engineer, the work may be ordered to be completed by some other agency at the risk and expense of the Contractor, after a minimum three days notice in writing has been given to the Contractor by the Engineer or his Representative.

8.3 Without being liable for any compensation to the Contractor, the Trustees may, in their absolute discretion, terminate the contract and enter upon the site and works and expel the Contractor there from after giving him a minimum 3 days' notice in writing, due to occurrence of any of the following reasons and decision of the Trustees in this respect, as communicated by the Engineer shall be final and conclusive :

Default of the Contractors remedies & powers/Termination of Contract.

- (i) The Contractor has abandoned the contract.
- (ii) In the opinion of the Engineer, either the progress of work is not satisfactory or the work is not likely to be completed within the agreed period on account of Contractor's lapses.
- (iii) The Contractor has failed to commence the works or has without any lawful excuse under these conditions has kept the work suspended for at least 15 days despite receiving the Engineer" or his Representative" written notice to proceed with the work.
- (iv) The Contractor has failed to remove materials from site or to dismantle or demolish and replace work for 7 days after receiving from the Engineer or his representative the written notice stating that the said materials or work were condemned and rejected by him under these conditions.
- (v) The Contractor is not executing the works in accordance with the contract or is persistently or flagrantly neglecting to carry out his obligations under the contract.
- (vi) Any bribe, commission, gift or advantage is given, promised or offered by or on behalf of the contractor to any officer, servant or representative of the Trustees or to any person on his or their behalf in relation to the obtaining or to the execution of the contract.
- (vii) The Contractor is adjusted insolvent or enters into composition with his creditors or being a company goes into liquidation either compulsory or voluntary.

- 8.3.1 Upon receipt of the letter of termination of work, which may be issued by the Engineer on behalf of the Trustees, the Contractor shall hand over all the Trustees' tools, plant and materials issued to him at the place to be ascertained from the Engineer, within 7 days of receipt of such letter.
- 8.3.2 In all such cases of Termination of work, the Trustees shall have the power to complete the work THOROUGH any other agency at the Contractor's risk and expense and the Contractor shall be debited any sum or sums that may be expended in completing the work beyond the amount that would have been due to the Contractor, had he duly completed the work of the work in accordance with the contract.
- 8.3.3 Upon termination of contract, the Contractor shall be entitled to receipt payment of only 90% of the value of work actually done or materials actually supplied by him and subject to recoveries as per contract, provided the work done and materials conform to specifications at the time of taking over by the Trustees. The payment for work shall be based on measurements of actual work done and priced at approved contract rates or other rates, as decided by the Engineer. The payment for materials supplied shall be at the rates as decided by the Engineer, which shall I in no case be more than market rates prevailing at the time of taking over by the Trustees. The Engineer's decision in all such case shall be final, binding and conclusive.
- 8.3.4 The Trustees shall have the power to retain all moneys due to the Contractor until the work is completed by other agency and the Contractor's liabilities to the Trustees are known in all respect.

## 9.0 MAINTENANCE AND REFUND OF SECURITY DEPOSIT

- 9.1 On completion of execution of the work the Contractor shall maintain the same for a period, as may be specified in the form of a Special Condition of the Contract, from the date mentioned in the Initial Completion Certificate in Form G.C.1. Any defect/fault, which may appear in the work during aforesaid maintenance period, arising, in the sole opinion of the Engineer or his representative, from materials or workmanship not in accordance with the contract or the instruction of the Engineer or his representative, shall, upon the written notice of the Engineer or his representative, be amended and made good by the Contractor at his own cost within seven days of the date of such notice, to the satisfaction of the Engineer or his representative, failing which the Engineer or his representative shall have the defects amended and made good THOROUGH other agency at the Contractor's risk and cost and all expenses, consequent thereon or incidental thereto, shall be recoverable from the Contractor in any manner deemed suitable by the Engineer.

Contractor's obligation for maintenance of work.

- 9.2 The Contractor shall not be considered completed and the work shall not be treated as finally accepted by the Trustees, until a Final Completion Certificate in Form G.C.2 annexed hereto shall have been signed and issued by the Engineer to the contractor after all obligations under the Contract including that in the maintenance period, if any, have been fulfilled by the Contractor. Previous entry on the works or taking possession, working or using thereof by the Trustees shall not relieve the Contractor of his obligations under the contract for full and final completion of the work. Certificate of final completion
- 9.3 On completion of the contract in the manner aforesaid, the Contractor may apply for the refund of his Security Deposit by submitting to the Engineer (i) The Treasury Receipts granted for the amount of Security held by the Trustees, and (ii) his “No further claim” Certificate in Form G.C.3 annexed hereto (in original), where upon the Engineer shall issue Certificate in Form G.C.2 and within two months of the Engineer’s recommendation, the Trustees shall refund the balance due against the Security Deposit to the Contractor, after making deduction therefrom in respect of any sum due to the Trustees from the Contractor. Refund of Security Deposit
- 10.0 INTERPRETATION OF CONTRACT DOCUMENTS, DISPUTES AND ARBITRATION
- 10.1 In all disputes, matters, claims, demands or questions arising out of or connected with the interpretation of the Contract including the meaning of Specifications, drawings, designs and instructions or as to the quality of workmanship or as to the materials used in the work or the execution of the work whether during the progress of the works or after the completion and whether before or after the determination, abandonment or breach of the contract the decision of the Engineer shall be final and binding on all parties to the contract and shall forthwith be given effect to by the Contractor. Engineer’s decision
- 10.2 If the Contractor be dissatisfied with any such decision of the Engineer, he shall within 15 days after receiving notice of such decision require that the matter shall be referred to Chairman, who shall thereupon consider and give a decision. Chairman’s award.
- 10.3 If, however, the Contractor be still dissatisfied with the decision of the Chairman, he shall within 15 days after receiving notice of such decision require that within 60 days from his written notice, the Chairman shall refer the matter to an Arbitrator of the panel of Arbitrators to be maintained by the Trustees for the purpose and any such reference shall be deemed to be a submission to arbitration within the meaning of Indian Arbitration Act, 1940 or any statutory modification thereof. Arbitration.
- 10.3.1 If the Arbitrator so appointed is unable or unwilling to act or resigns his appointment or vacates his office due to any reason whatsoever, another person from panel shall be appointed as Sole Arbitrator and he shall proceed from the stage at which his predecessor left it.

- 10.3.2 The Arbitrator shall be deemed to have entered on reference on the date he issues notice to both the parties fixing the date of first hearing.
- 10.3.3 The time limit within which the Arbitrator shall submit his award shall normally be 4 months as provided in Indian Arbitration Act, 1940 or any amendment thereof. The Arbitrator may, if found necessary, enlarge the time for making and publishing the award, with the consent of the parties..
- 10.3.4 The venue of the arbitration shall be either Calcutta or Haldia as may be fixed by the Arbitrator in his sole discretion. Upon every or any such reference the cost of any incidental to the reference and award respectively shall be in the discretion of the Arbitrator who may determine, the amount thereof or by whom and to whom and in what manner the same shall be borne and paid.
- 10.3.5 The Award of the Arbitrator shall be final and binding on all parties subject to the provisions of the Indian Arbitration Act 1940 or any amendment thereof. The Arbitrator shall give a separate award in respect of each item of disputes and respective claim referred to him by each party and give reason for the award.
- 10.3.6 The Arbitrator shall consider the claims of all the parties to the contract – within only the parameters of scope and conditions of the contract in question.
- 10.3.7 Save as otherwise provided in the contract the provisions of the Arbitration Act, 1940 and rules made thereunder, for the time being in force, shall apply to the arbitration proceedings under this Clause.
- 10.4 The Contractor shall not suspend or delay the work and proceed with the work with due diligence in accordance with Engineer's decision. The Engineer also shall not withhold any payment, which, according to him, is due or payable to the Contractor, on the ground that certain disputes have cropped up and are likely to be referred to arbitration.
- 10.5 Provided always as follows:
- [a] Nothing of the provisions in paragraphs 10.3 to 10.3.7 hereinabove would apply in the cases of contracts, where tendered amount appearing in the letter of acceptance of the tender / offer is less than Rs.40,00,000/-.
  - [b] The Contractor shall have to raise disputes or differences of any kind whatsoever in relation to the execution of the work to the Engineer within 30 days from the date of occurrence of the cause of dispute and before the preparation of the final bill, giving detailed justifications, in the context of contract conditions.

- [c] Contractor's dispute if any arising only during the maintenance period, if any, stipulated in the contract, must be submitted to the Engineer, with detailed justification in the context of contract conditions, before the issuance of final completion certificate in Form G.C.-2 *ibid*.  
No dispute or difference on any matters whatsoever, the Contractor can raise pertaining to the Contract after submission of certificate in form G.C.3 by him.
- [d] Contractor's claim / dispute raised beyond the time limits prescribed in sub-clauses 10.5[b] and 10.5 [c] hereinabove, shall not be entertained by the Engineer and / or by any Arbitrator subsequently.
- [e] The Chairman / Trustees shall have the right to alter the panel of Arbitrators, vide Clause 10.3 hereinabove, on their sole discretion, by adding the names of new Arbitrators and / or by deleting the names of existing Arbitrators, without making any reference to the Contractor.

(TO BE SUBMITTED WITH COVER- I OFFER)

**THE BOARD OF TRUSTEES FOR THE PORT OF KOLKATA**  
**FORM OF TENDER (UNPRICED)**

To  
The Manager (I&CF),  
Haldia Dock Complex.

I/We \_\_\_\_\_

having examined the site of work, inspected the Drawings and read the specifications, General & Special Conditions of Contract and Conditions of the Tender, hereby tender and undertake to execute and complete all the works required to be performed in accordance with the Specification, Bill of Quantities, General & Special Conditions of Contract and Drawings prepared by or on behalf of the Trustees and at the rates & prices set out in the annexed Bill of Quantities within \_\_\_\_\_ months / weeks from the date of order to commence the work and in the event of our tender being accepted in full or in part. I / We also undertake to enter into a Contract Agreement in the form hereto annexed with such alterations or additions thereto which may be necessary to give effect to the acceptance of the Tender and incorporating such Specification, Bill of Quantities, Drawing and Special & General Conditions of Contract and I / We hereby agree that until such Contract Agreement is executed the said Specification, Bill of Quantities, Conditions of Contract and the Tender, together with the acceptance thereof in writing by or on behalf of the Trustees shall be the Contract.

THE TOTAL AMOUNT OF TENDER Rs. **NOT TO BE QUOTED IN COVER I OFFER**

(Repeat in words) **NOT TO BE QUOTED IN COVER I OFFER**

I / We require \_\_\_\_\_ days / months preliminary time to arrange and procure the materials required by the work from the date of acceptance of tender before I We could commence the work.

I / We have deposited with the Trustees' Manager (Finance), HDC, vide Receipt No. \_\_\_\_\_ of \_\_\_\_\_ as Earnest Money.

I / We agree that the period for which the tender shall remain open for acceptance shall not be less than four months.

Dated :  
Seal)

\_\_\_\_\_  
(Signature of Bidder with

**WITNESS :**

Name of the Bidder :

Signature :

Name : (In  
Block Letters)

Address :

Address :

Occupatio  
n :

**SMP, KOLKATA  
HALDIA DOCK COMPLEX**

**FORM G.C.1**

Contractor \_\_\_\_\_

Address -----  
-----

Date of completion :

Dear sir(s),

This is to certify that the following work viz :-

Name of work : .....

.....

.....

Estimate No. E.E.0.....Dt.....

C.E.O.....Dt.....

Work Order No.....

Allocation.....

Contract No. ....

which was carried out by you is in the opinion of the undersigned complete in every respect on the \_\_\_\_\_ day of \_\_\_\_\_ 2000 in accordance with terms of the Contract and you are required to maintain the work as per Clause 62 of the General Conditions of Contract and under provisions of the Contract for a period of \_\_\_\_\_ weeks / months / years

from the \_\_\_\_\_ day of \_\_\_\_\_ 2000 to \_\_\_\_\_ day of \_\_\_\_\_ 2000 .

Yours faithfully,

Signature.....

(ENGINEER/ENGINEER'S REPRESENTATIVE)

Name.....

Designation.....

OFFICE SEAL

**KOLKATA PORT TRUST  
HALDIA DOCK COMPLEX**

FORM G.C.2.

Certificate of Final Completion.

The Financial Adviser & Chief Accounts Officer  
The Manager (Finance), Haldia Dock Complex.

This is to certify that the following work viz:-

Name of work : .....

Estimate No. E.E.O.....dt.....  
C.E.O.....dt.....

Work Order No.....

Contract No. ....

Resolution & Meeting No. ....

Allocation : .....

which was carried out by Shri/Messrs..... is now complete in every respect in accordance with the terms of the Contract and that all obligations under the Contract have been fulfilled by the Contractor.

Signature.....  
(ENGINEER/ENGINEER'S REPRESENTATIVE)  
NAME.....  
DESIGNATION.....  
OFFICE SEAL



**SMP, KOLKATA  
HALDIA DOCK COMPLEX**

FORM G.C.3

(‘NO CLAIM ‘ CERTIFICATE FROM CONTRACTOR)

The Manager (I&CF)  
Haldia Dock Complex  
Calcutta Port Trust  
Haldia.

(Atten:.....)

Dear Sir,

I / We do hereby declare that I / we have received full and final payment from the Calcutta Port Trust for the execution of the following work viz:-

Name of work : \_\_\_\_\_  
\_\_\_\_\_

Work Order No :- \_\_\_\_\_

Contract No. \_\_\_\_\_

Agreement No.....Dt.....

and I / we have no further claim against the Calcutta Port Trust in respect of the above-mentioned job.

Yours faithfully,

(Signature of

the Contractor)

Dated \_\_\_\_\_

Name of Contractor.....

Address:.....

(OFFICIAL SEAL OF THE CONTRACTOR)

**Syama Prasad Mookerjee Port, Kolkata**  
**PROFORMA OF FORM OF AGREEMENT**

THIS AGREEMENT made \_\_\_\_\_ day of \_\_\_\_\_

\_\_\_\_\_20\_\_\_\_\_ between the "Board Of Trustees for the Syama Prasad Mookerjee Port, Kolkata", a statutory body constituted under Major Port Trust Act, 1963 under the rules there under and statutory modification thereto having Registered Office at 15, Strand Road, Calcutta -700001 (hereinafter called "EMPLOYER" which expression unless excluded by or repugnant to the context be deemed to include his successor/s in office) on the one part and \_\_\_\_\_ (hereinafter called the "CONTRACTOR" which expression shall unless excluded by or repugnant to the context he deemed to include his heirs, executors, administrators, representative, successor in officer and permitted assigns) of the other part.

WHEREAS The TRUSTEES are desirous that certain works should be executed viz \_\_\_\_\_ and have accepted a Tender/Offer by the contractor for the execution, completion and maintenance of such works.

NOW THIS CONTRACT AGREEMENT WITNESSETH as follows:-

1. In this agreement words expressions shall have the same meanings as are respectively assigned to them in General Conditions Of Contract, hereinafter referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz :-
  - i. The said Tender/Offer & the acceptance of Tender/ Offer.
  - ii. The Drawings.
  - iii. The General Conditions Of Contract.
  - iv. Special Conditions Of Contract (If any).
  - v. The Conditions Of Tender.
  - vi. The Specifications.
  - vii. The Bill Of Quantities.
  - viii. All correspondences by which the contract is added, amended, varied or modified in any way by mutual consent.
3. In consideration of the payments to be made by the Trustees to the Contractor as hereinafter mentioned the contractor hereby covenant with the Trustees to execute, complete and maintain the work in conformity in all respects with the provisions of Contract.
4. The Trustees hereby covenants to pay to the contractor in consideration of such execution, completion and maintenance of the works the Contract Prices at the times and in the manner prescribed by the contractor.

IN WITNESS whereof the parties hereto have caused their respective Common Seals to be hereunto as fixed (or have set their respective hands and seals) the day and year first above written.

have executed these presents on the day and year first above written.

The Seal of \_\_\_\_\_

Was hereunto affixed in the presence of :

Name :- \_\_\_\_\_

Address :- \_\_\_\_\_

**OR**

**SIGNED SEALED AND DELIVERED**

By the said \_\_\_\_\_

In the presence of :

Name :- \_\_\_\_\_

Address :- \_\_\_\_\_

The Common Seal of the Trustees was hereunto affixed in he presence of :

Name :- \_\_\_\_\_

Address :- \_\_\_\_\_

**Proforma Of Irrevocable Bank Guarantee (PERFORMANCE BOND) in lieu of cash Security Deposit, to be issued by the Kolkata/ Haldia Branch, as the case may be, of any nationalised Bank of India on Non-Judicial Stamp Paper worth Rs 50/- or as decided by the Engineer/ Legal Adviser of the Trustees.**

Ref. \_\_\_\_\_

Bank Guarantee No. \_\_\_\_\_

Date \_\_\_\_\_

To

The Board of Trustees for the Syama Prasad Mookerjee Port, Kolkata,  
15, Strand Road  
Kolkata – 700 001

Dear Sirs,

In consideration of the Board of Trustees For the Syama Prasad Mookerjee Port, Kolkata, - (hereinafter referred to as the “EMPLOYER” which expression shall unless repugnant to the context or meaning thereof include its successors administrators and assigns) having awarded to \_\_\_\_\_, with registered office at \_\_\_\_\_ (hereinafter referred to as the “CONTRACTOR “ which expression shall unless repugnant to the context or meaning thereof, include its successors, administrators, executors and assigns) a CONTRACT by issue of EMPLOYER’S work order dated \_\_\_\_\_ the same having been unequivocally accepted by the Contractor resulting in a ‘CONTRACT’ bearing Letter Of Award No \_\_\_\_\_ dated \_\_\_\_\_ Valued at Rs \_\_\_\_\_ for “ \_\_\_\_\_ ” and the contractor having agreed to prove a Contract performance Guarantee for the faithful performance of the entire Contract equivalent to Rs. \_\_\_\_\_ ( rupees \_\_\_\_\_ only) to the EMPLOYER.

We, the \_\_\_\_\_ Bank, \_\_\_\_\_, Kolkata/ Haldia having its Head Office at \_\_\_\_\_ (hereinafter referred to as the “Bank”, which expression shall unless repugnant to the context or meaning thereof, include its successors, administrators, executors and assigns) do hereby guarantee and undertake to pay the Employer on demand any and all monies payable by the Contractor to the extent of Rs. -( \_\_\_\_\_ only) as aforesaid at any time upto \_\_\_\_\_ without any demur, reservation, contest, recourse or protest an/or without any reference to the CONTRACTOR, Any such demand made by Employer on the Bank shall be conclusive and binding notwithstanding any difference between EMPLOYEER and CONTRACTOR or any dispute pending before any Court, tribunal, Arbitrator or any other Authority. The Bank undertakes not to revoke this guarantee during its currency without previous consent of employer and further agrees that the guarantee herein contained shall continue to be enforceable till the Employer discharges his guarantee.

EMPLOYER shall have the fullest liberty without affecting in any way the liability of the Bank under this guarantee from time to time to extend the time for performance of the CONTRACT by CONTRACTOR. Employer shall have the fullest liberty, without affecting this guarantee, to postpone from time to time the exercise of any powers vested in them or any right which they might have against Contractor, and to exercise the same at any time in any manner, and other to enforce or to forebear to

enforce any covenants, contained or implied, in the CONTRACT between EMPLOYER and CONTRACTOR or any other course of remedy or security available to EMPLOYER . The Bank shall not be released of its obligations under these presents by any exercise by EMPLOYER of its liberty with reference to the matters aforesaid or any of them or by reason or any other acts of omission or commission on the part of employer or any other indulgence shown by EMPLOYER or by any other matter or thing whatsoever which under Law would, but for this provision, have the effect of reliving the bank.

The Bank also agreed that EMPLOYER at its option shall be entitled to enforce this Guarantee against the Bank as principal debtor, in the first instance without proceeding against CONTRACTOR and notwithstanding any security or other guarantee that EMPLOYER may have in relation to the CONTRACTOR’S liabilities.

Notwithstanding anything contained herein above our liability under this guarantee is restricted to Rs \_\_\_\_\_ (rupees \_\_\_\_\_ only) and it shall remain in force up to and including \_\_\_\_\_ and shall be extended from time to time for such period , on whose behalf this guarantee has been given.

Dated, this \_\_\_\_\_ day of \_\_\_\_\_2010  
\_\_\_\_\_ at \_\_\_\_\_

WITNESSES

----- (Signature)	----- (Signature)
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----- (Name)	----- (Name)
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----- (Official address)	----- (Designation with Bank Stamp) + Attorney as per power of Attorney No.
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Dated .....

## **Integrity Pact**

Between

**Syama Prasad Mookerjee Port, Kolkata** hereinafter referred to as “**The Principal/ Employer**”.

And

..... hereinafter referred to as “**The Bidder/Contractor**”

### **Preamble**

The Principal intends to award, under laid down organizational procedures, contract/s for ..... The Principal values full compliances with all relevant laws of the land, rules, regulations, economic use of resources and of fairness/transparency in its relations with its Bidder(s) and/or Contractor(s).

In order to achieve these goals, an Independent External Monitor (IEM) appointed by the principal, will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

NOW, THEREFORE,

To avoid all forms of corruption by following a system that is fair, transparent and free from any influence/prejudiced dealings prior to, during and subsequent to the currency of the contract to be entered into with a view to:-

Enabling the PRINCIPAL/EMPLOYER to get the contractual work executed and/or to obtain/dispose the desired said stores/ equipment at a competitive price in conformity with the defined specifications/ scope of work by avoiding the high cost and the distortionary impact of corruption on such work /procurement/ disposal and Enabling BIDDERS/ CONTRACTORS to abstain from bribing or indulging in any corrupt practice in order to secure the contract by providing assurance to them that their competitors will also abstain from bribing and other corrupt practices and the PRINCIPAL/EMPLOYER will commit to prevent corruption, in any form, by its officials by following transparent procedures.

### **Section 1 – Commitments of the Principal/ Employer.**

- (1) The Principal commits itself to take measures necessary to prevent corruption and to observe the following principles:
  - a. No employee of the Principal, personally or THOROUGH family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
  - b. The Principal will, during the tender process treat all Bidder(s) with equity and reason. The Principal will, in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential/ additional information THOROUGH which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.
  - c. The Principal will exclude from the process all known prejudiced persons.
- (2). If the Principal obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal Code (IPC)/Prevention of Corruption (PC) Act, or if there be a

substantive suspicion in this regard, the Principal will inform the Chief Vigilance Officer and in addition can initiate disciplinary actions.

## **Section-2 –Commitments of the Bidder(s) / Contractor(s)**

- (1) The Bidder(s)/Contractor(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution.
  - a. The Bidder(s) /Contractor(s) will not directly or THOROUGH any other person or firm, offer, promise or give to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
  - b. The Bidder(s)/Contractor(s) will not enter with other Bidders into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contract, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.
  - c. The Bidder(s)/Contractor(s) will not commit any offence under the relevant IPC/PC Act; further the Bidder(s)/Contractor(s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
  - d. The Bidder(s)/Contractor(s) of foreign origin shall disclose the name and address of the Agents/representatives in India, if any. Similarly the Bidder(s)/Contractor(s) of Indian Nationality shall furnish the name and address of the foreign principles, if any. Further details as mentioned in the "Guidelines on Indian Agents of Foreign Suppliers" shall be disclosed by the Bidder(s)/Contractor(s). Further, as mentioned in the Guidelines, all the payments made to the Indian agent/representative have to be in Indian Rupees only. Copy of the "Guidelines on Indian Agents of Foreign Suppliers" is annexed and marked as Annex-A.
  - e. The Bidder(s)/Contractor(s) will when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.
- (2). The Bidder(s)/Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.

## **Section-3-Disqualification from tender process and exclusion from future contracts**

If the Bidder(s)/Contractor(s) before award or during execution has committed a transgression THOROUGH a violation of Section 2 above, or in any other form such as to put his reliability or credibility in question, the Principal is entitled to disqualify the Bidder(s)/Contractor(s) from the tender process or take action as considered appropriate.

#### **Section 4-Compensation for damages**

- (1) If the Principal has disqualified the Bidder(s) from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover the damages equivalent to Earnest Money Deposit/Bid Security.
- (2) If the Principal has terminated the contract according to Section 3 or if the Principal is entitled to terminate the contract according to Section 3, the Principal shall be entitled to demand and recover from the Contractor liquidated damages of the contract value or the amount equivalent to Performance Bank Guarantee.

#### **Section 5-Previous transgression**

- (1) The Bidder declares that no previous transgressions occurred in the last 3 years from the date of signing the Integrity pact with any other Company in any country conforming to the anti corruption approach or with any other Public Sector Undertaking / Enterprise in India, Major Ports/ Govt. Departments of India that could justify his exclusion from the tender process.
- (2) If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or action can be taken as considered appropriate.

#### **Section 6- Equal treatment of all Bidders/Contractors/Sub-Contractors**

- (1) The Bidder(s)/Contractor(s) undertake(s) to demand from all subcontractors a commitment in conformity with this Integrity Pact, and to submit it to the Principal before contract signing.
- (2) The Principal, will enter into agreements with identical conditions as this one with all Bidders, Contractors and Sub-contractors.
- (3) The Principal will disqualify from the tender process all bidders who do not sign this Pact or violate its provisions.

#### **Section 7- Other Legal actions against violating Bidder(s)/ Contractor(s)/ Sub Contractor(s)**

The actions stipulated in this Integrity pact are without prejudice to any other legal action that may follow in accordance with provisions of the extant law in force relating to any civil or criminal proceedings.

#### **Section 8 – Role of Independent External Monitor(IEM):**

- (a) The task of the Monitors shall be to review independently and objectively, whether and to what extent the parties comply with the obligations under this pact.
- (b) The Monitors shall not be subject to instructions by the representatives of the parties and shall perform their functions neutrally and independently.
- (c) Both the parties accept that the Monitors have the right to access all the documents relating to the contract.



(d) As soon as the Monitor notices, or has reason to believe, a violation of this pact, he will so inform the authority designated by the Principal and the Chief Vigilance Officer of Syama Prasad Mookerjee Port, Kolkata.

(e) The BIDDER/ CONTRACTOR(s) accepts that the Monitor has the right to access without restriction to all contract documentation of the PRINCIPAL including that provided by the BIDDER/ CONTRACTOR. The BIDDER/ CONTRACTOR will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his contract documentation, if any. The same is applicable to sub-contractors. The Monitor shall be under contractual obligation to treat the information and documents of the Bidder/Contractor/ Sub-contractor(s) with confidentiality.

(f) The Principal/ Employer will provide to the Monitor sufficient information about all meetings among the parties related to the contract provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor, the option to participate in such meetings.

(g) The Monitor will submit a written report to the designated Authority of Principal/ Employer/ Chief Vigilance Officer of Kolkata Port Trust within 8 to 10 weeks from the date of reference or intimation to him by the Principal/ Employer/ Bidder/ Contractor and should the occasion arise, submit proposals for correcting problematic situation. BIDDER/ CONTRACTOR can approach the Independent External Monitor (s) appointed for the purposes of this Pact.

(h) As soon as the Monitor notices, or believes to notice, a violation of this agreement, he will so inform the Management of the Principal and request the Management to discontinue or to take corrective action, or to take other relevant action. The Monitor can in this regard submit non-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action.

(i) If the Monitor has reported to the Principal substantiated suspicion of an offence under the relevant IPC/PCA, and the Principal/ Employer has not, within reasonable time, taken visible action to proceed against such offence or reported to the Chief Vigilance Officer, the Monitor may also transmit this information directly to the Central Vigilance Commissioner, Government of India.

(j) The word 'Monitor' would include both singular and plural.

#### **Section 9 – Facilitation of Investigation:**

In case of any allegation of violation of any provisions of this Pact or payment of commission, the PRINCIPAL/EMPLOYER or its agencies shall be entitled to examine all the documents including the Books of Accounts of the BIDDER/CONTRACTORS and the BIDDER/CONTRACTOR shall provide necessary information and documents **in English** and shall extend all possible help for the purpose of such examination.

#### **Section 10 – Pact Duration:**

The pact beings with when both parties have legally signed it and will extend upto 2 years or the complete execution of the contract including warranty period whichever is later. In case bidder/contractor is unsuccessful this Integrity Pact shall expire after 6 months from the date of signing of the contract.

If any claim is made/lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged/determined by Chairman, SMP, KOLKATA.

#### **Section 11 – Other Provisions:**

- (1) This agreement is subject to Indian Law. Place of performance and jurisdiction is the Registered Office of the Principal in Kolkata.
- (2) Changes and supplements as well as termination notices need to be made in writing in English.
- (3) If the Contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members.
- (4) Should one or several provisions of this agreement turn out to be invalid, the reminder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.

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(For & on behalf of the Principal)

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(For & on behalf of Bidder/Contractor).

(Office Seal)

(Office Seal)

Place :

Date :

Witness 1:

(Name & Address) .....

.....

.....

Witness 2:

(Name & Address) .....

.....

.....

**GUIDELINES FOR INDIAN AGENTS OF FOREIGN SUPPLIERS**

- 1.1 There shall be compulsory registration of Indian agents of Foreign suppliers for all Tenders. An agent who is not registered with SMP, KOLKATA shall apply for registration in the prescribed Application-Form.
- 1.2 Registered agents will file an authenticated Photostat copy (duly attested by a Notary Public)/Original certificate of the principal confirming the agency agreement and giving the status being enjoyed by the agent and the commission/ remuneration/salary/retainer ship being paid by the principal to the agent before the placement of order by SMP, KOLKATA.
- 1.3 Wherever the Indian representatives have communicated on behalf of their principals and the foreign parties have stated that they are not paying any commission to the Indian agents, and the Indian representative is working on the basis of salary or as retainer, a written declaration to this effect should be submitted by the party (i.e. Principal) before finalizing the order.
- 2.0 DISCLOSURE OF PARTICULARS OF AGENTS/REPRESENTATIVES IN INDIA. IF ANY.**
- 2.1 Tenderers of Foreign nationality shall furnish the following details in their offer:
  - 2.1.1 The name and address of the agents/representatives in India, if any and the extent of authorization and authority given to commit the Principals. In case the agent/representative be a foreign Company, it is to be conformed whether it is real substantial Company and details of the same shall be furnished.
  - 2.1.2 The amount of commission/ remuneration included in the quoted price(s) for such agents/representatives in India.
  - 2.1.3 Confirmation of the Tenderer that the commission/remuneration if any, payable to his agents/representatives in India, is to be paid by SMP, KOLKATA in Indian Rupees only.
- 2.2 Tenderers of Indian Nationality shall furnish the following details in their offers:**
  - 2.2.1 The name and address of the foreign principals indicating their nationality as well as their status, i.e. whether manufacturer or agents of manufacturer holding the Letter of Authority of the Principal specifically authorizing the agent to make an offer in India in response to tender either directly or THOROUGH the agents /representatives.
  - 2.2.2 The amount of commission/remuneration included in the price(s) quoted by the Tenderer for himself.
  - 2.2.3 Confirmation of the foreign principals of the Tenderer that the commission/remunerations, if any, reserved for the Tenderer in the quoted price(s), is to be paid by SMP, KOLKATA in India in equivalent Indian Rupees.
- 2.3 In either case, in the event of contract materializing, the terms of payment will provide for payment of the commission/remuneration, if any payable to the agents/representatives in India in Indian Rupees on expiry of 90 days after the discharge of the obligations under the contract.
- 2.4 Failure to furnish correct and detailed information as called for in paragraph-2.0 above will render the concerned tender liable for rejection or in the event of a contract materializing, the same liable to termination by SMP, KOLKATA. Besides this there would be a penalty of banning business dealings with SMP, KOLKATA or damage or payment of a named sum.