



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

**SYAMAPRASADMOOKERJEEPORT,KOLKATA (FormerlyKOLKATAPORTTRUST)**

श्यामा प्रसाद मुखर्जी पत्तन, कोलकाता (पूर्व में कोलकाता पोर्ट ट्रस्ट)  
**(AN AUTONOMOUS BODY UNDER THE MINISTRY OF PORTS, SHIPING AND WATERWAYS,  
GOVERNMENT OF INDIA)**

(भारत सरकार के बंदरगाह, जहाजरानी और जलमार्ग मंत्रालय के तहत एक स्वायत्त निकाय)

**KOLKATA DOCK SYSTEM**

कोलकाता डॉक सिस्टम

**Civil Engineering Department**

सिविल इंजीनियरिंग विभाग

\*

\*\*

\*\*\*

\*\*\*\*

\*\*\*\*\*

निविदा के लिए " सुभाष भवन, श्यामा प्रसाद मुखर्जी बंदरगाह के भूतल और प्रथम तल पर कार्यालय  
आवास और एयर कंडीशनिंग आदि (एचवीएसी, फायर अलार्म, लिफ्ट) सहित विद्युत स्थापना कार्य में भूतल  
और प्रथम तल का संशोधन।"

**TENDER FOR"Modification of Ground and first floor into office accomodation  
and Electrical Installation work including Air –Conditioning  
etc.(HVAC,Fire Alarm,Lift) at Ground and first floor of Subhash  
Bhawan , Shyama Prasad Mookerjee Port"**

\*\*\*\*\*

\*\*\*\*

\*\*\*

\*\*

\*

सिविल इंजीनियरिंग विभाग  
श्यामा प्रसाद मुखर्जी पत्तन, कोलकाता

**Civil Engineering Department  
SYAMA PRASAD MOOKERJEE PORT, KOLKATA**

**विषय /Content /अनुक्रमणिका /Index**

Sl. No.	Description	Page No.
1.	N I T	3
2.	ANNEXURE—A (Important instructions for E – tender)	6
3.	ANNEXURE—B (Commercial terms & Conditions)	8
4.	ANNEXURE—C (Techno-commercial Bid)	12
5.	Instruction to Bidder	15
6.	Special Conditions of the Contract	21
7.	Pre-qualification criteria	22
8.	Scope of Work	22
9.	Schedule “T”	63
10.	Schedule “O”	65
11.	Proforma of Performance certificate/credential of works	66
12.	ANNEXURE—D (Documents to be uploaded)	67
13.	ANNEXURE—D1 (Undertaking to be submitted)	69
14.	ANNEXURE—E (Price Bid)	71
15.	Preamble to the Bill of Quantities	73
16.	Bill of Quantities	75
17.	Form of Tender	119
18.	ANNEXURE—F (General Conditions of the Contract)	120

**SYAMAPRASADMOOKERJEEPORT,KOLKATA(FormerlyKOLKATAPORTTRUST)**

श्यामा प्रसाद मुखर्जी पत्तन, कोलकाता (पूर्व में कोलकाता पोर्ट ट्रस्ट)

**CivilEngineeringDepartment**

सिविलइंजीनियरिंगविभाग

**1.0 निविदाआमंत्रणसूचना / NOTICE INVITING TENDER**

एनआईटी नं./NIT NO.: SMPK/KDS/CIV /T/2786/58 Dt. 17.11.2023

**E-Tender** is invited from reliable, bonafide& experienced agency with required experience as per Prequalification criteria stipulated in Tender Document for **“Modification of Ground and first floor into office accomodation and Electrical Installation work including Air –Conditioning etc.(HVAC,Fire Alarm,Lift) at Ground and first floor of Subhash Bhawan , Shyama Prasad Mookerjee Port.”**as per Bill of Quantities theBid Document may be seen from the <https://kopt.enivida.in>. Corrigenda or clarifications, if any, shall be hosted on theabove- mentioned website only. The tender is also published on SMPK website ([www.smpportkolkata.shipping.gov.in](http://www.smpportkolkata.shipping.gov.in)).

**निविदा की अनुसूची /SCHEDULE OF TENDER (SOT)**

a.निविदा संख्या /TENDER NO.	<b>SMPK/KDS/CIV /T/2786/58 DT. 17.11.2023</b>
b. निविदा कातरीका /MODE OF TENDER	e-Procurement System <b>(Online Two part Techno-Commercial Bid and Price Bid through Enivida Portal<a href="https://kopt.enivida.in/">https://kopt.enivida.in/</a>)</b> The intending bidders are required to submit their offers electronically through e-tendering portal. <b>No physical tender is acceptable</b> by SYAMA PRASAD MOOKERJEE PORT, KOLKATA.
c.i) कार्यकाअनुमानितलागत/Estimated Cost Of Work  ii) अग्रिमधन जमा राशि/Earnest Money Deposit	<b>Rs.9,47,48,414.80/ (Rupees Nine Crore Forty Seven Lakh Forty Eight Thousand Four Hundred Fourteen and Paise Eighty Only)</b>  <b>Rs. 18,94,970.00 /- (Rupees Eighteen Lakh Ninety Four Thousand Nine hundred seventy Only)</b> DD/Banker’s Cheque in favour of Syama Prasad Mookerjee Port, Kolkata on any scheduled/Nationalised Bank payable at Kolkata otherwise their offer will be summarily rejected. As per cl. 2, page no.12 Or payable through DD / RTGS / NEFT to be transferred on <b>A/C:SyamaPrasadMookerjeePort,Kolkata</b>

<p>iii) निविदा दस्तावेज की कीमत/Tender Document fee (<b>Non-refundable</b>)</p>	<p><b>A/cNo:067502000000491</b>  <b>IFSC:IOBA0000675</b>  <b>BankName:IndianOverseasBank</b>  <b>BranchName:STRANDROADBranch</b></p> <p>The intending bidders should submit the tender cost of <b>Rs.2950/- (Rupees two thousand nine hundred and fifty only) including @18% GST</b> to KoPT through DD/Banker's Cheque in favour of Syama Prasad Mookerjee Port, Kolkata on any scheduled/Nationalised Bank payable at Kolkata otherwise their offer will be summarily rejected. As per cl. 2, page no.12</p> <p>Or</p> <p>payable through DD / RTGS / NEFT / Bank Transfer etc.,) to be transferred on <b>A/C:SyamaPrasadMookerjeePort,Kolkata</b>  <b>A/cNo:067502000000491</b>  <b>IFSC:IOBA0000675</b>  <b>BankName:IndianOverseasBank</b>  <b>BranchName:STRANDROADBranch</b></p>
<p>iv) रेलटेल टेंडर प्रोसेसिंग शुल्क/ Railtel Tender Processing Fee (Non-refundable) Mode of Payment: - E-payment Only through Debit/Credit Card or Net Banking.</p>	<p>TPF- <b>0.1%</b> of estimate cost (Minimum 750/- Maximum 7500/-+GST Registration Charges Rs.2000/-+Applicable GST Per Year.</p>
<p>d. पार्टियों को डाउनलोड करने के लिए एउपलब्ध एनआईटी की तिथि/Date of NIT available to parties to download</p>	<p><b>20.11.2023 to 11.12.2023 (up to 12:00 hrs.)</b></p>
<p>e. प्रीबिड मीटिंग की तिथि और समय/ Pre – Bid Meeting Date &amp; Time</p>	<p><b>No Pre-bid meeting</b></p>
<p>f. अग्रिम धन तथा निविदा दस्तावेज की कीमत जमा करने की अंतिम तारीख/Last date of submission of EMD &amp; Tender Document fee at Syama Prasad Mookerjee Port, Kolkata</p>	<p><b>14.12.2023 (up to 12:00 hrs.)</b></p>
<p>g. ई-निविदा को ऑनलाइन जमा करने की प्रारम्भिक तिथि/ Date of Starting of e-Tender for submission of online Techno-Commercial Bid and Price Bid at Enivida Portal</p>	<p><b>20.11.2023 (From 14:00 hrs. onwards)</b></p>
<p>h. ई-निविदा को ऑनलाइन जमा करने की अंतिम तिथि/Date of closing of online e-tender for submission of Techno-Commercial Bid &amp; Price Bid.</p>	<p><b>11.12.2023 (Up to 15:00 hrs.)</b></p>
<p>i. ई-निविदा को खोलने की तिथि और समय/Date &amp; time of opening of Techno-Commercial Bid</p>	<p><b>12.12.2023 (After 13:00 hrs.) (Only Techno Commercial Part )</b></p>

ध्यान दे / Note: In the event of any unforeseen closure of work / holiday on any of the above days, the same will be opened / held on the next working day without any further notice.

अनुलग्नकों की सूची / List of Annexures:

Important Instructions for E- procurement	: - Annexure - A
Commercial Terms & Conditions	: - Annexure - B
Techno Commercial Bid	: - Annexure - C
List of Scanned Documents required to be uploaded: (Document consisting Annexure A to Annexure D To be treated as Techno Commercial Part)	: - Annexure – D
Price Bid (Financial Part) (Both the Techno Commercial Part & Financial Part will be uploaded separately & will be available both in the SMPK website & Envida Portal)	: - Annexure – E
General Conditions of Contract	: - Annexure – F

मुख्य अभियन्ता / **Chief Engineer**

सिविल इंजीनियरिंग विभाग / **Civil Engineering Department**

श्यामा प्रसाद मुखर्जी पत्तन, कोलकाता / **SYAMA PRASAD MOOKERJEE PORT, KOLKATA**

निविदा आमंत्रण प्राधिकारी / **Tender Inviting Authority.**

**2.0 ई-निविदा के लिए महत्वपूर्ण निर्देश/ Important Instructions for e-Tender**

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 Enivida Portal <https://kopt.enivida.in> before responding to this e-tender:

- Bidders Manual Kit
- Help for Contractors
- FAQ
- संपर्क करें /Contact Persons (Syama Prasad Mookerjee Port, Kolkata):
  1. N.Mallick, Superintending Engineer(Contract)
  2. P.Dutta, Engineer(C), Mob.No. 9830621827

फोन नंबर / Phone no.: **03371012486, 03371012398**

ई-मेल आईडी/E-mailIDs :- [sk.halder@kolkataporttrust.gov.in](mailto:sk.halder@kolkataporttrust.gov.in)

[&cecontract@kolkataporttrust.gov.in](mailto:&cecontract@kolkataporttrust.gov.in)

संपर्क करें (एनीविडा पोर्टल) /Contact Persons (Enivida Portal):

फोन नंबर /Phone No.: - **7278929467/8448288981**

ई / मेल आईडी-E-Mail IDs: - [enividahelpdesk@gmail.com](mailto:enividahelpdesk@gmail.com) & [ewizardkumar@gmail.com](mailto:ewizardkumar@gmail.com)

1	All entries in the tender should be entered in online Technical & Commercial Formats without any ambiguity.
2	E-tender cannot be accessed after the due date and time mentioned in NIT.
3	SMPK 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.
4	Any order resulting from this tender shall be governed by the terms and conditions mentioned therein.
5	No deviation to the technical and commercial terms & conditions are allowed.
6	The bidders must upload all the documents required as per terms of tender. Any other document uploaded which is not required as per the terms of the tender shall not be considered.
7	The bid will be evaluated based on the filled-in technical & commercial formats.
8	Bidder has fully read and understood the entire Tender Document, GCC, Corrigendum and Addenda, if any downloaded from under the instant e-tender and no other source, and will comply to the said document, GCC, Corrigendum and Addendum. <b>A declaration in this regard is to be made by the bidder.</b>
9	(A) Tender will be opened electronically on specified date and time as mentioned in the NIT. Bidders can witness electronic opening of Bid. (B) Necessary addendum/corrigendum (if any) of the tender would only be hoisted in the <b>Enivida Portal</b> .
10	Bidder has fully read and understood the entire Tender Document, GCC, Corrigendum and Addenda, if any downloaded from under the instant e-tender and no other source, and will comply to the said document, GCC, Corrigendum and Addenda <b>A declaration in this regard is to be made by the bidder.</b>

1	(A) Part-I i.e. Techno commercial bid will be opened electronically on specified date and time as mentioned in the NIT. Bidder's can witness electronic opening of Bid.
1	(B) Part-II i.e. Price Bid will be opened electronically of only those bidder(s) whose offer will be technocommercially qualified and accepted by KoPT. Such bidder(s) will be intimated the date of opening of Price Bid (Part-II) in due course through valid email confirmed by them. Necessary addendum/corrigendum (if any) of the tender would only be hoisted in the in the Enivida Portal

## Annexure –B

### **SYAMA PRASAD MOOKERJEE PORT, KOLKATA (Formerly KOLKATA PORT TRUST)**

श्यामा प्रसाद मुखर्जी पत्तन, कोलकाता (पूर्व में कोलकाता पोर्ट ट्रस्ट)

#### **CivilEngineeringDepartment**

सिविल इंजीनियरिंग विभाग

**Office of the Chief Engineer / मुख्य अभियंता का कार्यालय,**

**6, Fairlie Place, Fairlie Warehouse, Kolkata- 700001/**

**6, फेयरली प्लेस, फेयरली वेयरहाउस, कोलकाता- 700001।**

फोन नंबर / Phone no – **033 2230-3451 Extension: 398,399,400**

फैक्स/ Fax - **(033) 2230-0413**

ई / मेल आईडी – **E-mail id: [nmallik@kolkataporttrust.gov.in](mailto:nmallik@kolkataporttrust.gov.in)**

**& [cecontract@kolkataporttrust.gov.in](mailto:cecontract@kolkataporttrust.gov.in)**

### **3.0 वाणिज्यिक नियम और शर्तें / Commercial Terms & Conditions**

SL. NO.	नियम / TERMS
---------	--------------

- 1 Mere participation in e-tender will not mean that a particular bidder will be automatically considered qualified and their bids will be entertained. Such qualification will be reviewed at the time of techno-commercial evaluation of bids also.
- 2 Copy of valid NSIC Certificate or MSME Certificate under **MSME** has to be submitted along with the bid.
- 3 अग्रिमधन राशि / EARNEST MONEY: As Per NIT
- 4 E-Tenderers submitted without requisite Earnest Money are liable to be rejected excepting in case of Micro & Small Enterprises (MSEs) registered with NSIC (under single point registration scheme) or MSME for items for which the tender is invited.
- 5 काम की गुंजाइश / SCOPE OF WORK: As per E-Tender Document
- 6 The Terms and Conditions of E-Tender shall be read in conjunction with the General Conditions of Contract, Specifications, Bill of Quantities and other documents forming part of this Contract wherever the Contract so requires.
- 7 The several documents forming the Contract shall be taken, as mutually explanatory to one another and in case of any discrepancies; the Bill of Quantities shall prevail over the Specifications and the Terms and Conditions over the General Conditions of Contract of SMP, Kolkata. In case of any dispute, question or difference either during the execution of the Contract or any other time as to any matter or thing connected with or arising out of this Contract, the decision of the Chief Engineer, SYAMA PRASAD MOOKERJEE PORT, KOLKATA, thereon shall be final and binding upon all parties.



- 8 The Contract will include the Client's Bid Documents with the General Conditions of Contract and the Bidder's Offer as finally accepted by the Client, together with Addenda, if there be any. Trustees' General Conditions of contract is the integral part of the tender / contract. The above-mentioned General Conditions of Contract may be inspected at the office of the undersigned on any working day before quoting for the Tender.
- 9 The Trustees are not bound to accept the lowest or any Tender and reserve the right to accept a tender in full or in part and / or reject a tender in full or in part without assigning any reason thereof.
- 10 The contract shall be governed by all relevant Indian Acts applicable only within the jurisdiction of the High Court at Calcutta.
- 11 Intending bidders must take into account any cost or expense incurred by them in connection with the preparation and submission of their bids or for any other expenses incurred in connection with such bidding.
- 12 Bidders are advised to visit the site of work prior to submission of their bid. Bidder shall get himself thoroughly familiarized with the site conditions, existing road facilities for carrying materials etc. before submission of the e-tender. He may contact **Superintending Engineer (Netaji Subhash Dock)/ Superintending Engineer( Electrical)** or his authorized representative at his office at 15, Strand Road, Kolkata 700001 in this regard. Non-compliance of the same will in no way relieve the successful bidder of any of his obligations in performing the work in accordance with this Bid Document within the quoted price.
- 13 वैधता / VALIDITY: -  
The tender shall remain open for acceptance for a period of ) 4चार/ महीने ( **4 (four) months** from the date of opening of techno-commercial bid.  
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 tender, the Earnest Money deposited shall be liable to forfeiture at the option of the Trustees / sanctioning Authority.
- 14 गैर-उत्तरदायी बोलीदाता / NON- RESPONSIVE BIDDER: -  
The offer/tender shall be treated as non-responsive, if it:
- (i) is not accompanied by requisite Earnest Money /valid NSIC Registration Certificate /MSME Registration Certificate.
  - (ii) is not accompanied by requisite tender paper cost / or valid NSIC/MSME Registration Certificate.
  - (iii) validity of the offer is less than tender stipulation,
  - (iv) 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/offer or tender if submitted with any deviation from the tender terms & conditions.

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 Syama Prasad Mookerjee Port, Kolkata in this regard shall be final and binding on the Bidder.

Offer / tender is submitted with any deviation from the tender terms & conditions.

- 15 बयाना राशि और सुरक्षा जमा/ EARNEST MONEY AND SECURITY DEPOSIT: - : As per tender Document .
- 16 प्रदर्शन की गारंटी / PERFORMANCE GUARANTEE: -  
The Contractor should submit a Performance Guarantee in the form of B.G. for 10 % of contract value in SMPK's proforma from a Scheduled/ Nationalised Bank within 21 days from the date of receipt of LOI/Work Order, failing which the contract would be rescind without any further notice .The P.G. should be obtained for the full period covering defect liability period of 1( one) years.
- 17 In the event of the successful bidder failing to execute the order within the stipulated delivery period without sufficient reasons acceptable to the Trustees, the Security Deposit may be forfeited and the order be cancelled at the option of the Trustees' **apart from other actions.**
- 18 कीमतों / PRICES: - As per BOQ given in the tender document.
- 19 The bidder shall quote his price as per the Bill of Quantities in the Price bid
- 20 Orders may be placed in full/part to the lowest bidder.
- 21 Price(s) to be quoted should remain firm over the contract period.
- 22 **The prices quoted shall be including all statutory levies excluding GST, which shall be paid extra.**
- 23 मूल्यांकन पैमाना / EVALUATION CRITERIA:As per relevant clause of Tender document.
- 24 भुगतान / PAYMENT: - As per Tender document.
- 25 स्थान / LOCATION: As per Tender document.
- 26 पूरा होने का समय / TIME OF COMPLETION: As per Tender document.
- 27 Work is to be carried out as per terms & condition of the contract document.
- 28 न्यायालय का अधिकार क्षेत्र / JURISDICTION OF COURT: -The contract shall be governed by all relevant Indian Acts applicable within the jurisdiction of Kolkata.
- 29 व्यक्तिगत सुरक्षा उपकरण / PERSONAL PROTECTIVE EQUIPMENT (PPE): -

Contractor and their workmen including driver & helper must use PPE i.e. safety helmet etc. at the time of work inside the dock premises. For safety measure Cl. No.25, page-23 may be referred to.

30 Compensation (Liquidated Damages) against failure to complete the work within the stipulated time as per tender condition.

31 मूल्य समायोजन खंड / **PRICE ADJUSTMENT CLAUSE**: As per Tender document.

32 तकनीकी क्षमता / **TECHNICAL CAPACITY**: As stipulated in Tender document.

33 वित्तीय क्षमता / **FINANCIAL CAPACITY**:As stipulated in Tender document.

34. डॉक परमिट / **DOCK PERMITS**: As per tender document.

35 The bidder may offer a Bank Guarantee in the Trustees' specified proforma from any Scheduled/ Nationalized Bank of India having Branch at Kolkata in lieu of Earnest Money /Security Deposit beyond **Rupees 10 (Ten) lakhs.**

**Besides the above conditions all other conditions as stated in the NIT, BOQ, Special Conditions Contract, Instruction to the tenderers, G.C.C. shall have to be agreed by the Bidders.**

## Annexure –C

**SYAMAPRASADMOOKERJEEPORT,KOLKATA (FormerlyKOLKATAPORTTRUST)**

श्यामा प्रसाद मुखर्जी पत्तन, कोलकाता (पूर्व में कोलकाता पोर्ट ट्रस्ट)

**CivilEngineeringDepartment**

सिविल इंजीनियरिंग विभाग

Office of the Chief Engineer / मुख्य अभियंता का कार्यालय,

6, Fairlie Place, Fairlie Warehouse, Kolkata- 700001/

6, फेयरली प्लेस, फेयरली वेयरहाउस, कोलकाता- 700001।

एनआईटी नं/ NIT NO.: SMPK/KDS/CIV /T/2786/58 Dt. 17.11.2023

**NOTE:** निविदा दस्तावेज डाउनलोड करने की अंतिम तिथि /Last Date of **Download** of tender documents

**:11.12.2023(upto 14.00 hours)**

निविदा प्रस्तुत करने के कारण है/ Tender is due for submission by **15.00 Hrs. On 11.12.2023**

निविदा खुलने वाली है/ **Tender is due for opening after 13.00 Hrs. On 12.12.2023**

तकनीकी वाणिज्यिक बोली / **Techno Commercial Bid**

निविदा के लिए " सुभाष भवन, श्यामा प्रसाद मुखर्जी बंदरगाह के भूतल और प्रथम तल पर कार्यालय आवास और एयर कंडीशनिंग आदि (एचवीएसी, फायर अलार्म, लिफ्ट) सहित विद्युत स्थापना कार्य में भूतल और प्रथम तल का संशोधन।"

**TENDER FOR "Modification of Ground and first floor into office accomodation and Electrical Installation work including Air –Conditioning etc.(HVAC,Fire Alarm,Lift) at Ground and first floor of Subhash Bhawan , Shyama Prasad Mookerjee Port."**

\*\*\*\*\*

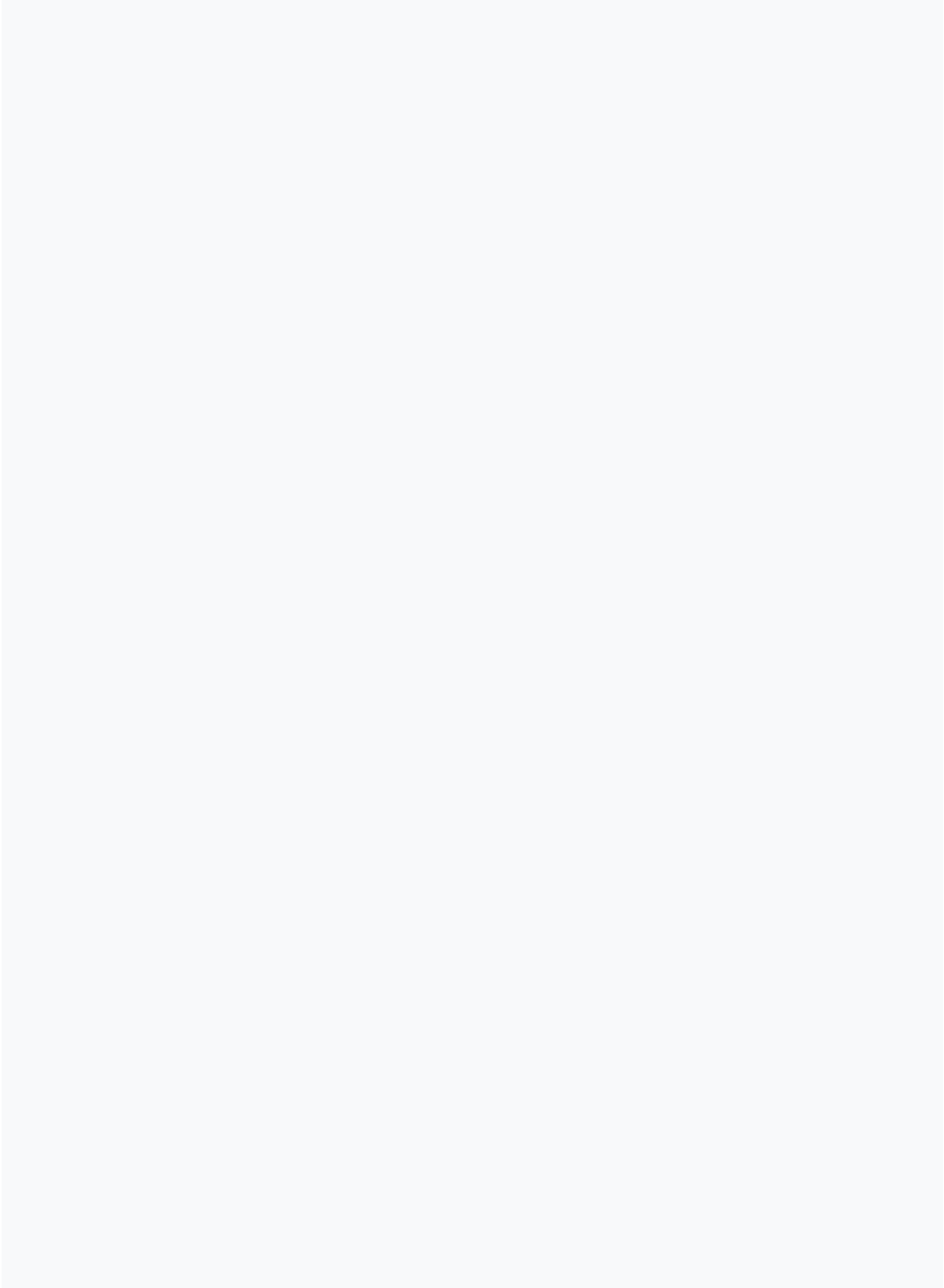
\*

**लघु निविदा सूचना / SHORT TENDER NOTICE**

E-Tender is invited from reliable, bonafide& experienced agency with required experience as per Pre-Qualification Criteria stipulated in Tender Document for the following work at Syama Prasad Mookerjee Port, Kolkata.

कार्यकानाम/Name of work	:	<b>“Modification of Ground and first floor into office accomodation and Electrical Installation work including Air –Conditioning etc.(HVAC,Fire Alarm,Lift) at Ground and first floor of Subhash Bhawan , Shyama Prasad Mookerjee Port.”</b>
एनआईटी नंबर / NIT No	:	<b>SMPK/KDS/CIV /T/2786/58 Dt. 17.11.2023</b>
अनुमानित लागत/ Estimated Cost	:	<b>Rs.9,47,48,414.80/ (Rupees Nine Crore Forty Seven Lakh Forty Eight Thousand Four Hundred Fourteen and Paise Eighty Only)</b>
निष्पादन की अवधि/ Period of Execution	:	<b>10(Ten) Months.</b>
ईएमडी (बयाना राशि जमा) /बोली सुरक्षा/ EMD (Earnest Money Deposit)/ Bid Security	:	<b>Rs. 18,94,970.00 /- (Rupees Eighteen Lakh Ninety Four Thousand Nine hundred seventy Only)</b>
के डाउनलोड की अवधिई-निविदा (दोनों दिन सम्मिलित) / Period of Download of E-Tender (Both Days Inclusive)	:	<b>20.11.2023 to 11.12.2023(UPTO 14:00 hrs.)</b> (Bid document will be available on website <a href="https://kopt.enivida.in">https://kopt.enivida.in</a> ). Bidders will have to participate in bidding process through website <a href="https://kopt.enivida.in/">https://kopt.enivida.in/</a> ) only.
प्री-बिड मीटिंग और साइट विज़िट के लिए दिनांक और समय / Date and Time for pre-bid meeting & site visit	:	<b>No pre-bid meeting.</b>
ई-निविदा जमा करने और निविदा खोलने की अंतिम तिथि/Last date of submission of e-tender and opening of the tender	:	प्रस्तुत करना / <b>Submission on 11.12.2023Up to 15:00 hrs.</b>  खुल रहा है / <b>Opening on 12.12.2023after 13:00 hrs.</b>  <b>(Commercial Part only)</b>
निविदा दस्तावेज की लागत (नॉन रिफंडेबल) / Cost of Tender Document (Non-refundable)	:	The intending bidders should submit the tender cost of Rs <b>2950/-(Rupees two thousand nine hundred and fifty only) including @18% GST</b> to KoPT through DD/Banker’s Cheque in favour of Syama Prasad Mookerjee Port, Kolkata on any scheduled/Nationalised Bank payable at Kolkata otherwise their offer will be summarily rejected. As per cl. 2, page no.12

<b>संपर्क व्यक्ति / Contact Person.</b>	<b>:</b>	<b>N.Mallick, Superintending Engineer(Contract) P.Dutta, Engineer (C),Mob.No 9830621827 03371012486, 03371012398</b>
---	----------	--



#### 4.0: बोलीदाता को निर्देश / INSTRUCTIONS TO BIDDER

**E-TENDER FOR “Modification of Ground and first floor into office accomodation and Electrical Installation work including Air –Conditioning etc.(HVAC,Fire Alarm,Lift) at Ground and first floor of Subhash Bhawan , Shyama Prasad Mookerjee Port.”**

**निविदा के लिए " सुभाष भवन, श्यामा प्रसाद मुखर्जी बंदरगाह के भूतल और प्रथम तल पर कार्यालय आवास और एयर कंडीशनिंग आदि (एचवीएसी, फायर अलार्म, लिफ्ट) सहित विद्युत स्थापना कार्य में भूतल और प्रथम तल का संशोधन।”**

**एनआईटी नं/ NIT NO.: SMPK/KDS/CIV /T/2786/58 Dt. 17.11.2023**

#### **1.0 आम /GENERAL**

The work as described in the tender shall be executed in Kolkata and in accordance with the attached General Conditions of Contract, Special Conditions of Contract, Particular Specifications, and Drawings (if any) & detailed Bill of Quantities. Location Plan of the place of work might be inspected at the office of the **Superintending Engineer (Netaji Subhash Dock)/Superintending Engineer(Electrical)of M&EE Deptt.** on any working day before quoting for the tender.

**2.0** Cost of tender paper and EMD are to be physically deposited at the office of Chief Engineer at 15, Strand Road, Kolkata-700 001 by vendors/contractors through Bank Draft/Banker’s Cheque/Demand Draft/Pay Order etc. On any scheduled/nationalised Bank, in favour of Syama Prasad Mookerjee Port, Kolkata, payable at Kolkata, within 3 working days after opening of tender.

2.1 Details of cost of e-tender paper remitted should be entered by the participating vendor/contractor in the space provided in the e-tender as indicated hereunder:

- a) Name of remitting vendor/contractor :
- b) Tender No. :
- c) Amount remitted :
- d) Date of remittance :
- e) Bank Draft / Cheque No. :

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

- a) Name of remitting vendor/contractor :
- b) Tender No. :
- c) Amount remitted :
- d) Date of remittance :
- e) Bank Draft / Cheque No.

Tender submitted without requisite cost of tender paper will be liable for rejection.

### 3.0 बोली प्रस्तुत करने का तरीका / **MODE OF SUBMISSION OF BID:**

3.1 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.

3.2 A Bid shall contain the following scanned copies of which are to be uploaded (Refer Annexure D):-

- i) GST registration certificate.
  - ii) a) Valid Trade Licence (Valid for current period & also for type of work).  
b) The Firm has to submit copy of **Electrical Supervisor's Valid License who will carry out & certify the electrical job.**
  - iii) Valid Professional Tax Clearance Certificate / Up to date tax payment challan. If this is not applicable, the bidder must submit a declaration in this regard.
  - iv) Proof of possessing valid Employees' Provident Fund (EPF) Account. EPF Registration Certificate.
  - v) Proof of being registered with Employees' State Insurance Corporation (ESIC), ESI Registration Certificate.
    - vi) Details of the firm as per Schedule-O (in Part-I) of the tender document duly filled up.
  - vii) Credentials in the form of copies of Letters of Award of Works along with corresponding/successful Completion Certificates from owners to justify that the intending bidder satisfies the earlier mentioned pre-qualification criteria.  
  
viii) Last three years balance sheet and profit & loss account in support of Annual Financial turnover ((i.e. 2020–2021, 2021-2022 and 2022-2023).. **The same should be audited as per relevant norms wherever required along with UDIN of the Auditor.**
- ix) PAN Card
- x) Bank Draft/ Pay order etc. regarding Cost of EMD and Tender documents/valid NSIC certificate
- xi) A list of technically qualified and skilled persons would be engaged to supervise and execute the work.
- xii) Self declaration of the bidder that the Bidding Firm has Not been debarred / de-listed by any Govt / Quasi Govt. / Public Sector undertaking in India(**to be mentioned in the letter head of the Firm**).
- xiii) Self-declaration regarding 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(**to be mentioned in the letter head of the Firm**).



xiv) 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 'Schedule –T' in Part-I of the tender document.

xv) Undertaking of the tenderer to be submitted as per enclosed Pro-forma (ANNEXURE –D-1) in lieu of submission of signed copies of the full Tender document, G.C.C, addenda & corrigendum **in the letter head of the Firm.**

xvi) Last page of "Bill of Quantities" & the "Form of Tender" duly filled up (without price quoted) shall be duly signed and stamped by the Bidder.

xvii) Copy of duly Filled up Integrity Pact in Stamp Paper of value Rs. 100/- .

xviii) **TDS certificate including 26 AS should essentially be submitted to validate the legitimacy of the work completion certificate.**

**N. B.-1The bidder will have to produce the original documents or any additional documents, if asked for, to satisfy the Authorities for clarification of his documents or credibility.**

**N.B.-2Even though the bidders meet the above qualifying criteria, they are subject to be disqualified if they have made misleading or false representations in the forms, statements and attachments submitted in proof of the qualification requirements and their EMD will be forfeited for such action.**

3.3 All the bidders should submit the e-tender in accordance with the Mode of submission of Bid as afore-said.

#### 4.0 सुरक्षा जमा राशि / **SECURITY DEPOSIT:-**

4.1 For the successful Bidder, the Security Deposit will be recovered from the contractors each and every On-Account Bill [including the final bill, if necessary] at the percentage of each such bills as set forth in **Clause. 3.4, 3.5 & 3.6 of the General Conditions of Contract.**

4.2 Refund of S.D. and forfeiture S.D. shall be guided by Cl. 3.5 (i) & (ii) of the G.C.C.

#### 5.0 विलंब/समय का विस्तार/परिसमापन क्षति/ठेके की समाप्ति / **Delay/ Extension of time/ Liquidated Damage/ Termination of Contract.**

Clause 8.0 of G.C.C. to be referred regarding Delay/ Extension of time/ Liquidated Damage/ Termination of Contract.

#### 6.0 बयाना राशि की वापसी / **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 after opening of Price bid (Part – II) of the tender document

**7.0 ऑफर की वैधता / VALIDITY OF OFFER:-**

The e-tender shall remain valid for a period of 4 (चार) महीने / **4 (four) months** 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.

**8.0 ई-निविदाकारों की विस्तृत जांच / DETAILED SCRUTINY OF E-TENDERERS:**

8.1 During the course of examination of Part-I of the bid, the bidders, if asked for, shall furnish any or additional document(s) for the purpose of evaluation of his / their bids.

**9.0**

9.1 During Techno-Commercial Evaluation, i.e. evaluation of Part-I of tender, an offer shall be considered non-responsive in case it:-

- (i) is not accompanied by requisite EMD/ Tender Paper Cost /NSIC /MSME Registration certificate.
- (ii) validity of the offer is less than tender stipulation,
- (iii) does not meet the Qualification Criteria as stipulated in the NIT.
- (iv) The bidder submits conditional offer / impose own terms and conditions / does not accept tender conditions completely/offer or tender if submitted with any deviation from the tender terms & conditions.

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

9.2 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 Syama Prasad Mookerjee Port, Kolkata in this regard shall be final and binding on the Bidder.

**10. An amount of Cess for Building & Other Construction Workers' Welfare Cess [BOCWW Cess] calculated at the rate of 1% of the billed amount shall be progressively recovered from each running bill as well as from the final bill of the contractor for onward transmission of the same by the appropriate authority statutory deductions will also be made as applicable at the time of payment.**

**11. For Micro & Small Enterprises (MSEs) registered with NSIC & or MSME:-**

11.1 Micro & Small Enterprises (MSEs) registered with NSIC (under single point registration scheme) or MSME are exempted from depositing Cost of Tender Document.

11.2 If Micro & Small Enterprises (MSEs) registered with NSIC or MSME intends to participate in the tender, for the items they are not registered with NSIC, then they will

have to deposit cost of Tender Document, as per NIT. **Otherwise their offer will not be considered.**

11.3 Copy of valid NSIC Certificate for MSEs has to be submitted along with bid.

#### **12.0 मूल्यांकन पैमाना / EVALUATION CRITERIA:-**

12.1 During evaluation of Part-II i.e. 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.

#### **13.0 निविदा की स्वीकृति / ACCEPTANCE OF TENDER:-**

13.1 Syama Prasad Mookerjee Port, 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.

13.2 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.

13.3 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 fulfil all his obligations as required by the Contract.

#### **14.0 विविध / 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) Enlisted/registered contractor of SMPK will get the benefit of exemption of deposition of Earnest Money **up to the prescribed limit**. They are to upload the scan copy of the original T.R. issued to them by SMPK during registration to SMPK relating to **Permanent Security Deposit**.

.....

vii)The Bidder shall give a declaration about the names of their relations employed in Syama Prasad Mookerjee Port, Kolkata. It is not the intention to debar the Contractors from working if their relatives are working in SMPK, but such a declaration is necessary in the interest of Trustees against any possible lapses.

.....

## 5.0: अनुबंध की विशेष शर्तें / **SPECIAL CONDITIONS OF CONTRACT**

### **E-TENDER FOR“Modification of Ground and first floor into office accomodation and Electrical Installation work including Air – Conditioning etc.(HVAC,Fire Alarm,Lift) at Ground and first floor of Subhash Bhawan , Shyama Prasad Mookerjee Port.”**

**निविदा के लिए " सुभाष भवन, श्यामा प्रसाद मुखर्जी बंदरगाह के भूतल और प्रथम तल पर कार्यालय आवास और एयर कंडीशनिंग आदि (एचवीएसी, फायर अलार्म, लिफ्ट) सहित विद्युत स्थापना कार्य में भूतल और प्रथम तल का संशोधन।"**

#### **1. आम/ GENERAL:**

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-Tenders, and 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.

#### **2. निविदा दस्तावेजों की वरीयता का सहसंबंध और क्रम / 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.

- (a) Order letter.
- (b) Bill of Quantities.
- (c) Drawings.
- (d) Particular Specifications of work.
- (e) Special Conditions of Contract.
- (f) 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 Chief Engineer, Syama Prasad Mookerjee Port, Kolkata, thereon shall be final and binding upon all parties.

The execution of work shall conform minutely to the approved & assigned drawings & specification & any other details drawings which shall be provided /duly approved by the

Engineer during the progress of the work as to such other drawings those have formed part of the contract documents.

**3. बोलीदाताओं के लिए पूर्व-योग्यता मानदंड / PRE-QUALIFICATION CRITERIA FOR BIDDERS: -**

i) The intending bidder must have successfully completed **“Construction/maintenance/remodelling/upgradation/modification of Buildings/Offices/Gates (Civil /Structural works only) for the civil part of the work”** during the last 7(seven) years ending last day of month previous to one in which applications are invited and the experience should be Either of the following :-

Either (i) **03 (Three)** completed works each costing not less than **Rs. 2,17,24,139.12**  
Or (ii) **02 (Two)** completed works each costing not less than **Rs. 2,71,55,173.90**  
Or (iii) **01 (One)** completed work costing not less than **Rs. 4,34,48,278.24**

And also bidder must have successfully complete **“Supply, installation, testing and commissioning of LT Switchgear, Internal Wiring, Lift, Air-conditioning system and other allied electrical works”** during the last 7(seven) years ending last day of month previous to one in which applications are invited and the experience should be Either of the following :-

Either (i) **03 (Three)** completed works each costing not less than **Rs. 1,61,75,226.80**  
Or (ii) **02 (Two)** completed works each costing not less than **Rs. 2,02,19,033.50**  
Or (iii) **01 (One)** completed work costing not less than **Rs.3,23,50,453.60**

ii) The Average Annual Financial Turnover of the bidding firm during the **last three years**, ending on **31-03-2023**, should be at least **Rs. 2,84,24,524.40** of the estimated amount put to tender. **The same should be audited as per relevant norms wherever required along with UDIN of the Auditor**

iii) Work experience as a sub-contractor shall not be considered as the requisite qualification.

**4. काम की गुंजाइश / SCOPE OF WORK:**

**a) Civil Works (For 'PART A' of BOQ):**

**The work comprises of**

1. Dismantling all types of masonry, plain cement, R.C. floor, roof, beams etc., all assorted item that includes Wall partition/False Ceiling made of Wood, Ply Board, Masonite Board, Alluminium Partition, Door/Wondow frames, Glass etc
2. Polymer Modified Mortar (Brick Work)
3. Providing and fixing/ inserting 12mm. Polytetrafluoroethylene- (Teflon) nozzles of 150mm
4. Sealing of cracks /porous concrete by injection process through Teflon nipples/grouting complete
5. Plastering

6. Brick Work
  7. Ordinary Cement concrete (1:1.5:3),(1:2:4)
  8. Reinforcement for reinforced concrete work
  9. shuttering with centering and necessary staging
  10. Providing and fixing of false ceiling
  11. Supplying & laying of approved brand of scratch proof semi flexible P.V.C. blended homogeneous luxury plank wood Vinyl flooring in tiles
  12. Rendering the surface of walls and ceiling
  13. Applying Interior grade Acrylic Primer, Acrylic Emulsion Paint, Synthetic Distemper, Acrylic Polymer modified Paint
  14. Supplying & placing in position OFFICE WORKSTATION of size 1.50 mtr x 1.50 mtr x 1.20 mtr
  15. Incorporating Partition of commercial ply
  16. Supplying fitting, fixing decorative lamination
  17. Wood work in posts, post plates, rafters, battens, truss members, purlins etc
  18. Supplying, fitting and fixing of 8mm thick. bubble free clear, toughened glass
  19. Providing & installing POLYESTER INSULATING FILM
  20. Supplying solid flush type doors, 2-Track / 3-Track Aluminium sliding Window of all Aluminium sections viz. window frame & Hydraulic Door Closer
  21. Bubble free float glass
  22. Supplying, fitting & fixing 1st quality Ceramic tiles in walls and floors, granite slab, white vitreous china best quality approved make Counter wash basin with C.I. brackets
  23. Supply and Installation (With Lifting Charges upto 6th Floor) of BESCO TITAN 12 BOXUP CUBICAL (Cubical size, Width 1350 -1500 mm, Length-1150-1500 mm and height-2100 mm), 1950 mm height divider (length-1150 mm - 1500 mm), made by 12 mm thick compact pilaster board along with accessories standard Merino make stainless steel-304 grade
  24. Supplying & placing in position storage unit of size 1.500 mtr x 0.520 mtr x 1.240 mtr made with 19mm thick W.P. Board, 12mm thick BWP, and 6mm thick BWR ply with laminated finished of 1mm thick laminate of approved shade **and** 0.920 mtr x 0.520 mtr x 0.750 mtr made with 19mm thick W.P. Board, 12mm thick BWP, and 6mm thick BWR ply with laminated finished of 1mm thick laminate of approved shade
  25. Supply of motion high back chair with adjustable armrest of Godrej make
  26. Supply of Sally Mid back chair with adjustable armrest of Godrej make
- Supplying & placing in position Conference Table of size 3.2 mtr x 1.2 mtr x 0.75mtr.

**b) Electrical & Air-conditioning Works (For 'PART B' of BOQ):**

**Dismantling Work**

1. Dismantling of existing electrical set-up/accessories including cabling, wiring, cable tray, switch boards, Air-conditioning (AC) machines, LT DBs etc. along with all other associated accessories and shifting & handing over, including transportation, to Office Of Executive Engineer(Elect.-NSD) or MM Division or Main Office of M & EE Dept. as per direction of Engineer or his representative. During dismantling of AC machines proper care should be taken to avoid damage to those machines. Refrigeration pipes should be properly sealed to avoid any ingress of water.

**Electrical Work (LV & Illumination)**

2. Preparation of Single Line Diagram (SLD).
3. Design, Supply, Installation, Testing and Commissioning of TTA(Totally Type-tested Assembly) low voltage switch panel floor for 415V, 3 phase 50 Hz 4 wire system as per BOQ & Technical Specification. Entire design of LV panel should be done/vetted by OEM, even if it is assembled / fabricated in the factory of OEM's authorised system-integrator/panel builder. Detailed design & drawings from OEM is required to be submitted or vetted by OEM as per relevant standard.
4. LV panels should be fully TTA panel as per relevant IEC or IS Standard. These panels shall be fabricated & assembled either in-house of OEM of switchgear or assembled in their authorised system-integrator/panel builder.
5. Supply, delivery, installation & commissioning of GI cable tray and its accessories as per Technical Specification and BOQ.
6. Supply, delivery, laying, termination and commissioning of XLPE insulated, 1.1 kV grade armoured/un-armoured, Al/Cu Cable as per Technical Specifications & BOQ.
7. Preparation & submission of illumination report of each floor based on the civil layout drawing. The report should be prepared by or vetted by OEM of luminaries to be supplied.
8. Preparation of detailed electrical load calculation showing type and number of electrical points considered in each circuit at different areas.
9. Preparation of indoor electrical layout drawing of each floor showing, floor panel, main & sub-DBs, floor raceways, floor JB's, adaptable trunking, connection wiring/cabling, switch boards, lights/fans/call bells/other points etc.
10. Supply, delivery, installation and commissioning of MCB DBs as per Technical Specifications & BOQ.
11. Supply, delivery, installation and commissioning of Ceiling fan & fan regulator, down rod canopy etc. as per Technical Specifications & BOQ.
12. Supply, delivery & fixing of LED Indoor/Outdoor Luminaries as per Technical Specifications & BOQ.
13. Supply, laying and commissioning of adaptable aluminium trunking cable management system and GI floor raceway system as per Technical Specification & BOQ.



14. Supply, installation and commissioning of switch, socket, pop-up box etc. as per Technical Specification & BOQ.

#### **Air-conditioning Work**

15. Design, Supply, delivery, installation and commissioning of centralised AC System as per Technical Specifications & BOQ.
16. Preparation of detailed Air conditioning heat load calculation for each floor showing basis of design parameters based on the Civil layout drawing and basis of design. The said calculation should be provided by OEM. In case, the said calculation is provided by Authorised Dealer of OEM, it should be vetted by OEM.
17. Preparation of detailed piping layout showing position of IDUs (Indoor Units) and ODUs (Outdoor Units) based on the Civil layout drawing and basis of design. The said layout drawing should be provided by OEM. In case, the said calculation is provided by Authorised Dealer of OEM, it should be vetted by OEM.
18. Submission of technical datasheet of IDUs, ODUs, pipe, insulation rubber etc. or any other document/design calculation from OEM(or vetted by them) to substantiate any Air-conditioning parameters mentioned in the tender document.
19. System Design Calculation and drawing of the scheme will be vetted by SMP, Kolkata and/or Govt. Engg. Institute like IIT Kgp/Jadavpur University/IEST Shibpur etc. duly appointed by SMP, Kolkata.

#### **Fire-Alarm Detection Work**

20. Preparation of detailed layout diagram for each floor based on Civil layout drawing.
21. Supply, Installation, Testing and Commissioning of addressable smoke cum heat detectors, addressable manual call points, addressable hooters and allied devices with the existing 100% hot redundant Microprocessor based Intelligent Addressable Automatic Fire Detection cum Alarm System, covering the Ground Floor & 1<sup>st</sup> & 2<sup>nd</sup> Floor of SMPK Subhas Bhavan.

#### **Renovation of lift work**

As detailed below under the Scope of work for renovation of lift.

#### **Earthing and other work**

22. Earthing of the Electrical Installations, Substation equipment including transformer as per IS specification.
23. Any other layout drawing that is to be prepared as instructed by Engineer for ease of execution of the work.
24. Preparing and submitting "As Executed" SLD, aforementioned Electrical (HV & LV), Fire Alarm Detection System & centralised AC layout drawings, electrical & heat load calculation datasheets, Cable Routes, as laid, with reference to permanent installations en-route, showing distance from such references etc. in

triplicate and two sets of operation & maintenance manual for HT & LT panel equipments supplied including microprocessor release.

**Scope of work for installation of LV Panels:**

Suitable sizes of Steel Base Channels/ Angles/ Platform should be grouted, levelled in cement concrete foundation. A proper bonding surface should be made by chipping the floor while making cement concreting. All the panels should be assembled, aligned and levelled. The Fixing Bolts should be grouted only after satisfying all these requirements. After completion of the Panel erection, all cubicles, switches, CTs, Bus Bar Chambers should be cleaned and checked for tightness of all the components. All loosely supplied items shall be fitted up. All the wiring connections should also be checked with drawings and tightened. Insulators should be checked up for any possible damage. All openings should be sealed to avoid ingress of any foreign particles inside the panels.

Individual Feeder Functional Scheme verification should be carried out and if required minor wiring modification in the panel wiring, as per site requirement should be done as per the directive of the Engineer without any extra cost. Special attention is to be paid to CT Circuits Polarity, wiring continuity & correctness in the protection as well as measurement circuits.

All the control wiring, Bushings, Bus Bars, other live parts of Switch Gears, Incoming & Outgoing Cables should be meggered with 500 Volt Megger. The LT Panel shall be double earthed through earthing system. Supply of all materials including hardware materials, as required, is under the scope of the Contractor.

**Scope of work for installation of Main DBs & MCB DBs:**

The Main Distribution Boards and MCB Sub-DBs are to be installed concealed within the wall as per Technical Specification & BOQ. The Main Distribution Boards/Panel & MCB Sub-DBs should also be connected with the nearest Earth Bus, using suitable size of insulated Copper wire as per Technical Specification & BOQ. All hardware items required for this job, should be provided & installed by the contractor.

**Scope of work for installation of Ceiling Fans:**

Installation of ceiling fan complete with blade, electronic regulator, canopy etc. with appropriate length of MS down rod & making necessary connection. Down Rod, if required shall have to be supplied by the contractor. Cost of down rod shall be included in its installation price.

**Scope of work for Fire-Alarm Detection System:**

- Basic System Architecture

The system architecture will comprise of supply, installation, testing & commissioning of addressable detectors and devices catering to the Ground floor and 1st Floor of the building along with necessary wiring, suitable for seamless connection with the existing Intelligent 100% Hot Redundant Addressable Fire Alarm Control Panel capable of accommodating min. 250 detector/device per loop in any combination and 3.5 km each loop length, which is located at the ground floor of the building. A repeater panel will be located at the 1st Floor for annunciation of the Fire signals in the main panel at ground floor.

Each loop will comprise of Multisensory Detectors (which can be programmed as smoke detector, Heat detector or, multisensory detector as per the site requirement), Manual Call Points, Loop Powered Sounders and Modules etc. as per the design requirement. All the devices in the system must have inbuilt isolators and must be loop powered i.e., no extra power supply unit or cable, apart from the loop cable will be there for connecting hooters / modules etc.

- Typical Loop Structure:

The Automatic Fire Alarm System must be assembled using a modern, redundant system structure and detectors. The controllers and the software for the fire alarm system must be laid out in such a way that a single error of any electronic element or of an external device does not compromise the fire alarm system from functioning normally. The fire alarm system must be 100% fully-redundant, i.e., all control elements (electronic elements) must be present in duplicate. In the event of a single fault in the control panel or its peripheral devices, all detectors and functions must remain fully functional, and all controllers must remain fully active. When the fault is detected and displayed, the system must continue to function fully. Every detector and every controller module must constantly check its own status and send status information to the microprocessor-controlled and monitored fire alarm control panel. Deceptive alarms must be filtered out by backed-up digital data transmission between detectors and the fire alarm control panel. It must be ensured that a fault in an operating group or a detector does not influence or falsely manipulate the functionality of other operating groups or detectors. In the event of a failure, a short circuit or a wire break in a detector or in the fire alarm system cable, all other detectors and connected input and output modules must remain fully functional.

A short-circuit / fault isolator must be integrated into every connected input and output module on the loop including detectors / manual call points, monitor & control modules etc. Faulty detectors, modules and controller modules as well as short circuits or wire breaks must be located and the information about their precise position must be indicated in plain text on the display.

Automatic and non-automatic detectors as well as input and output elements for fire prevention doors, sirens, flashing lights etc. must all be directly connectible to a loop circuit.

Some areas have false ceiling. In case of areas having false ceiling, the detectors are to be installed above False Ceiling with respective response indicators fixed at below false ceiling.

The assignment and interconnection of detectors into detector zones must be possible from any position on the loop circuit, regardless of the position. Subsequent extensions of a detector zone must be simple to implement. The sensors should be able to detect any variation in heat or smoke in a region from the normal situational parameters. Detectors/ devices will send the signal to the main control and indicating panel. The system then will generate a highly audible alarm sound both in the concerned floor as well as in the main control and indicating panel to alert the concerned persons.

At site single phase 240 V, 50 Hz, AC, is available.

The fire alarm system must be planned, installed, operated and maintained in full protection in accordance with IS: 2189:2008. The work shall be carried out as per Indian Electricity Act, 2003, Central Electricity Authority (Measures relating to safety & electricity supply) Regulation ,2010 with latest revised IS code of Practice and relevant portion of National Building Code particularly with respect to fire safety and also code of practice for fire safety of buildings (general): Electrical installations, IS: 1646:19.

**Scope of work for renovation of lift:**

Renovation of 1 no. lift installed at front side of Subhsh Bhaban of SMP, Kolkata, under comprehensive maintenance of M/s Otis Elevator Company (India) Limited by dismantling the existing lift from its existing shaft, shifting of the said dismantled parts to sales yard of SMPK, thereafter design, manufacture, supply, installation, testing & commissioning of 8 passenger machine room less lift in the existing lift well as par relevant standard. The contractor should obtain clearance from relevant statutory body for ready to use of the lift before commissioning. Cost in this regard, if any, should be taken into account in their price offer. Necessary assistance will be provided by SMP, Kolkata. Proper earthing should be done.

**Any work**, considered required by the contractor and not mentioned hereunder, for successful completion of the project, is to be included in the item of bill of Quantity suitably which should be finalized in the pre bid meeting.

**The work** including all appurtenant works shall be carried out as described and set forth in, Bill of Quantities, Special Conditions of contract, Technical Specification of works, and Specification of materials & Workmanship with all additional or varied works which may thereafter be required in Accordance with Clause 7 of General conditions of contract and as per direction of the Engineer-in-Charge.

**The intending tenderer** shall inspect the site of work in consultation with the Superintending Engineer (Electrical), SMP, Kolkata and acquaint himself with the nature of Work before preparing his tender. His attention is drawn to the Conditions of Contract in this regard. No excuse on ignorance as to the site General Conditions will be entertained.

Unless otherwise specified, the work to be provided for by the contractor shall include but not be limited to the following:

- a) Provide all materials, supervision, services, scaffolding and temporary lighting as required for work purposes etc.
- b) Prepare and submit for review and assessment to the Engineer working drawings showing how the work is actually going to be done as may be required by him.
- c) The contractor shall carry out the work in phased manner as per availability of the site so that normal day-to-day activities are not affected for which no such extra payment will be entertained.

The work shall be carried out as per Indian Electricity Act, 2003, Central Electricity Authority (Measures relating to safety & electricity supply) Regulation, 2010 (and latest amendment) with latest revised IS code of Practice and relevant portion of National Building Code particularly with respect to fire safety and also code of practice for fire safety of buildings (general): Electrical Installations, IS: 1646: 1997 and code of practice for earthing IS 3043:1987 and Dock Safety Rule & Regulation.

The **Technical Data Sheets, Single Line Diagram, Drawing for HV/LV Panels, Distribution Boards, cable route, other layout drawings, QAP** etc., as detailed above, should be prepared by the Successful Tenderer and the same should be submitted to the Engineer for necessary approval.

The Contractor should arrange, at their own cost, all necessary tools, tackles, lifting machineries, transport etc., required for the execution of total work. They should also provide all materials, supervision, services, scaffolding and temporary lighting as required for work purpose etc.

**Note:**

**Other Items specifically not mentioned in the T.S.** shall be as per BOQ. Any other item required for installation but specifically not mentioned either in the BOQ or the T.S. like requisite length of G.I. Pipes, clamps and accessories shall be deemed to be included in the rates for installation of the items for which these items are intended. Tenderers are advised to build up the installation prices accordingly. Any claim in this regard on the plea that the item is not specifically mentioned shall not be entertained.

**Cleaning of site:**

On completion of works, the contractor shall reinstate and make good at his own expense any property or land which might have been disturbed and/or damaged by his works. Contractor should also clean the site as required during execution and fully clear the site after completion of all the works. Any holes/drillings/openings/damages made on the wall/roof for drawing of cables/installation of equipment shall be made good by the tenderer at his own cost.

The contractor should have valid Electrical Contractor License and/or HV & LV work should be carried out/supervised by Supervisor having valid Supervisory Certificate of Competency.

## तकनीकी निर्देश/ TECHNICAL SPECIFICATIONS

### Electrical & Air-conditioning works (For 'PART B' of BOQ)

#### A. Technical Specification for Cable Work:

Cables should be generally compliance with **IS: 7098 (Part-1) / 1988** or latest amendment if any with following specifications:

#### Conductor:

1) Stranded Aluminium/Copper should comply to **IS: 8130 - 1984** or latest amendment, if any, of sizes as mentioned in the BOQ, Colour coded, Voltage Grade: 1.1KV, Insulation: XLPE, Inner Sheath: Extruded PVC, Armour: Galvanized Steel Strips, Outer Sheath: Extruded PVC.

2) Stranded Copper should comply to **IS: 8130 - 1984** or latest amendment if any of sizes as mentioned in the BOQ, Colour coded, Voltage Grade: 1.1KV, Insulation: PVC, Un-Armoured, Outer Sheath: Extruded PVC.

#### Laying:

##### Laying Underground:

Cable shall be laid generally in accordance with **IS: 1255-1983** or latest amendment, if any. The average depth of trench for laying cable, considering the site conditions, shall be as below:

- I) Directly in ground – as mentioned in the BOQ or average 0.60m.
- II) At road crossing – as mentioned in the BOQ or average 0.75m.

The trenches shall be excavated in reasonably straight line, and where there is a change in direction suitable curvature shall be provided with 12D radius where D is the diameter of the cable. Where gradients and changes in depth are unavoidable, this shall be gradual, except where otherwise directed by the Engineer. The cable shall be laid through suitable size HDPE/GI Pipe, as

mentioned in BOQ. After laying of the cable the duct shall have to be filled up by fine excavated material. Where cables run in parallel, separate ducts and HDPE/GI pipe, as stated, shall have to be provided. G.I./HDPE pipe shall have to be used where cable pass through walls, roads, drains, culverts, railway line etc. The cable trench shall be filled back with riddled soil obtained from excavation. This shall be done in layer and compacted. Cable route marker shall have to be provided at a maximum distance of 50m.

Laying through existing trench:

Cable shall be laid through existing covered/uncovered masonry trench taking out of RC covers, setting them in order, mending good the damages filling the trench with fine dry sand including supply of sand. Cables should be handled carefully during installation to prevent 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. Insulation Test of the cable should be carried out in presence of the Engineer. Any cable, which is found defective, should be replaced before the next group of cables is laid.

Laying on wall or structure:

Where cable shall be laid on wall or structure, the cable shall be laid by using MS/GI Clamp (As per BOQ) of adequate strength and size. The maximum distance between clamps shall not be more than 400mm. The cable shall run as straight as possible. When the cable shall pass through wall/floor etc. GI/HDPE pipe protection shall have to be given.

Laying through existing HDPE/GI/Hume Pipe:

Where cable shall be laid through HDPE/GI/Hume pipe, care should be taken to avoid mechanical damages to the cable. HDPE/GI/Hume pipe should have proper dia for the cable it is intended to and it should be laid with socket, bend, couplers etc.

Before laying of Power Cables, Cable Routes should be checked properly to avoid interference with the existing cables, structures, drains, pipings, etc. as far as possible and minor adjustments to be done to suit the field conditions, wherever deemed necessary, without any extra cost. Cable Routes should be carefully measured and the contractor shall ascertain the proper requirement of cable for a particular feeder. Sufficient lengths are to be kept for the final connections of the cables to the terminal of the equipment. Various cable lengths, cut off from the Cable Reels, should be carefully selected to prevent undue wastage of cables.

The cables should be neatly arranged in the Trench / Trays / Pipes in such a manner so that criss-crossing is avoided and final take off to the equipment / switchgear is facilitated.

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 consent from Engineer, before cutting. Cutting, if necessary and mending good of any cut portion should be done by contractor at his cost and risk.

Cables should be handled carefully during installation to prevent 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.

## **B. Technical Specification for Low Voltage Panel:**

### **a. GENERAL CONSTRUCTION:**

- (i) The Switchboards shall be metal clad totally enclosed, floor mounted free standing type of modular bolted type extensible design suitable for indoor mounting. Switchboard shall have a double front door arrangement to avoid unauthorized access. Suitable locking arrangement has to be considered.
- (ii) The Distribution LV panels shall be suitable for use on medium voltage at 415V, 3 phase, 4 wire, 50 Hz AC system.
- (iii) The Panel shall be Total Type Tested (TTA) in-house factory manufactured & assembled from OEM (Original Equipment Manufacturer) or from OEM's authorized system integrator/panel builder, based on the design of OEM, as detailed in Scope of Work. The degree of enclosure protection shall be IP 54 as per IS 13947 (Part-I).
- (iv) The switchboard shall be readily extensible on both sides by addition of vertical sections after removal of the end covers and shall be Form 3b construction. The switch board shall be dust & vermin proof and shall be suitable for the climate conditions as specified. The design shall include all provisions for safety of operation and maintenance personnel. The LT panel construction performance, testing and verification shall conform to (a) IS/IEC 61439-1: 2011 (Low-Voltage Switchgear and Control gear Assemblies - Part 1: General Rules), b) IS/IEC 61439-2: 2011 (Low-voltage switchgear and control gear assemblies - Part 2: Power switchgear and control gear assemblies).
- (v) The Distribution panels shall be with hinged front and/or rear doors and folded covers, Neoprene rubber gasket, padlocking arrangement and bolted back.

### **b. CUBICAL TYPE PANELS:**



- (i) Cubical type panels shall be fabricated out of CRCA sheet steel not less than 2.0 mm thick for load bearing members and 1.6mm for doors. Switchboards shall be made up of requisite vertical sections, which when coupled together, shall form continuous dead front switchboards. Wherever necessary, such sheet steel members shall be stiffened by angle iron frame work. General construction shall employ the principle of compartmentalization and segregation for each circuit. Unless otherwise approved, incomer and bus section panels or sections shall be separate and independent and shall not be mixed with sections required for feeders. Each section of the rear accessible type panel shall have hinged access doors at the rear. Overall height of the panel shall not exceed 2.4 meters. Operating levers, handle etc. of highest unit shall not be higher than 1.7 meters and not below 0.3m. Multi-tier mounting of feeder may be permissible, if the general arrangement for multitier construction shall be such that the horizontal tiers formed present a pleasing and aesthetic look. The general arrangement shall be approved before fabrication. Cable entries for various feeders shall be from bottom, through cable alleys either in the rear or in the front of the panel. All cable terminations shall be through gland plates. There shall be separate gland plate for each cable entry so that there will not be dislocation of already wired circuits when new feeders are added. Cable entry plates shall therefore be sectionalized. The construction shall include necessary cable supports for clamping the cable in the cable alley or rear cable chamber.
- (ii) The panel shall be compartmentalized type having space and arrangement for incoming cable/ bus ducting, incoming switchgear/ switchgears, bus coupler, insulated and properly supported compartmentalized bus bars, outgoing compartmentalized switchgear, bus bar supports, joint shrouds, cable alleys of suitable size for cabling routing, support and terminations, inter-connection between bus bars and switchgear with auxiliary bus bars/ insulated conductors/ strips etc. Also, the panel will be provided with necessary instrumentation like CTs, PTs, Ammeters, Voltmeters, phase indicating lamps, other required instruments, wiring, fuses etc.
- (iii) Earthed metal shutters shall be provided between draw out and fixed portion of the switchgear such that no live parts are accessible with equipment drawn out. Degree of protection within compartments shall be at least IP 2X.
- (iv) For all Circuit Breakers separate and adequate compartments shall be provided for accommodating instruments, indicating lamps, control contactors and control MCB etc. These shall be accessible for testing and

maintenance without any danger of accidental contact with live parts of the circuit breaker, busbars and connections.

- (v) A suitable wire way with cover shall be provided to take interconnecting control wiring between vertical sections.
- (vi) Suitable pressure relief devices shall be provided to minimize danger to operator during internal fault conditions.
- (vii) Each switchgear cubicles shall be fitted with rugged engraved label in front and back identifying the circuit, switchgear type and rating, as per instruction.
- (viii) Switchboard shall be provided with "Danger Notice Plate" conforming to relevant Indian Standards.

**c. BUS BAR AND CONNECTIONS:**

Bus bar and interconnections shall be made of high conductivity electrolytic grade copper as indicated in the bill of quantities(BOQ) complying with IS : 5082 - 1981 or latest amendment and of rectangular cross section suitable for carrying the rated full load current and short circuit current and shall be extendable on either side. Bus bars and interconnections shall be insulated with heat shrinkable sleeve of 1.1 KV grade and shall be colour coded. Bus bars shall be supported on glass fibre reinforced thermosetting plastic insulated supports at regular intervals to withstand the mechanical force arising from a possible short circuit in the system. All bus bars shall be provided in a separate chamber and all connections shall be done by high tensile bolts. All connections between bus bars and breakers shall be through solid copper strips of proper size( if specifically not mentioned in BOQ) to carry 1.25 times full rated current and insulated with insulating sleeves.

Maximum allowable temperature for the Bus bar to be restricted to 85°C.

**d. INCOMER BUSTRUNKING & OUTGOING CABLE TERMINATION:**

The incomer panel shall be suitable for receiving bus trunking or MV/LV cable of size specified. Cable entries shall be provided through cable alleys of suitable size. Removable gland plate to be provided for each cable entry. Cable support arrangement to be provided inside cable alley so that cables are neatly arranged and fixed.

**e. SMALL WIRING:**

All small wiring for Controls, Indication etc. shall be with suitable FRLS copper conductor cables. Wiring shall be suitably protected within switch

board. Runs of wires shall be neatly bunched, suitably supported and clamped. Means shall be provided for easy identifications of the wires. Identification ferrules shall be used at both ends of the wires. All control wiring meant for external connections are to be brought out of terminal board.

**f. EARTHING:**

Continuous earth bus sized as per BOQ for prospective fault current to be provided with arrangement for connecting to station earth at two points. Hinged doors / frames to be connected to earth through adequately sized flexible braids.

**g. SWITCHGEAR RATING AND REQUIREMENTS:**

- **Air Circuit Breakers:** All Air Circuit Breakers shall be 4 pole with minimum 50 KA breaking capacity at 415V conforming to IEC/IS: 60947 & 13947. Rated current shall be as per capacities specified. The equipment shall be complete with the following:
  - (i) Necessary circuit breaker carriages with 3 positions (isolate, test, service) draw out mechanism.
  - (ii) Necessary isolating plugs and sockets.
  - (iii) Necessary mechanism interlock and automatic safe shutter gear with arrangement for pad locking.
  - (iv) Necessary independent manual spring mechanism with mechanical On/Off indication as well as electrical On/Off indication.
  - (v) Necessary bus bars with bolted type neutral links.
  - (vi) ACB shall be provided with microprocessor based releases having built in protection (as per BOQ). Microprocessor release shall be EMI (Electro Magnetic Induction)/ EMC (Electro Magnetic Compatible) certified. It should also display, but not limited to, the following spec.:
    - I. Measurement function to show 3 phase current, 3 phase voltage, KW, KVA, KVA<sub>r</sub>, KWH, power factor etc. in a LCD Display.
    - II. Operation Counter.
    - III. Last fault trip history
    - IV. Thermal Memory etc.
  - (vii) Necessary set of auxiliary switches.

- (viii) Necessary set of Resin Cast CTs with ratios as specified.
- (ix) Necessary identification, metering requirements as specified i/c. ON/OFF indication lamps, selector switches, fuses, ammeter, voltmeter etc.
- (x) In case of 4 pole breaker neutral shall be fully rated with adjustable settings from 50% to 100% of In (Rated Current).
- (xi) ACB terminals shall be suitable/ suitably brought out for direct termination as per IS 13947 Part-II.
- (xii) Should be suitable for a rapid and smooth interruption of capacitive fault currents under all conditions.
- (xiii) Should be free from re-strikes under all operating conditions.
- (xiv) Should have suitable barrier for each phase and live parts to give total encapsulation and maximum safety.

**Other Technical Parameters of the Air Circuit Breakers:**

a)	<b>Rated normal current</b>	:	As specified in BOQ
b)	<b>Impulse Withstand Voltage</b>	:	12 kV
c)	<b>Rated Operational Voltage</b>	:	415 V AC
d)	<b>Rated Insulation voltage</b>	:	1000 V AC
e)	<b>Rated Frequency</b>	:	50 Hz.
f)	<b>Rated Operating Temperature</b>	:	Up to 75 degree C.
g)	<b>Particulars of Specifications to be complied with</b>	:	IS/IEC: 60947 - 2(2003) or latest amendment.
h)	<b>Type of arc quenching medium</b>	:	Air
i)	<b>Number of poles</b>	:	4
j)	<b>Rated short-circuit breaking current at 415V.</b>	:	50 kA rms.
k)	<b>Rated short-time withstand current for 3 Sec.</b>	:	24kA rms.

l)	<b>Rated supply voltage of closing &amp; operating devices and auxiliary circuits.</b>	:	240 V AC
m)	<b>Operating Mechanism</b>	:	The Operating Mechanism should be Stored Energy (in Spring) type and capable of giving specific duty of the Breaker, having provision for both Motor Charging and Manual Charging. The Motor should be suitable for operation at 240V, 50 Hz, Single Phase, AC Supply. All working parts of the mechanism should be of corrosion resistant material.
n)	<b>Min Mechanical Life</b>	:	20000 Cycles
o)	<b>Min Electrical Life at 415V</b>	:	8000 Cycles

- **Moulded Case Circuit Breaker(MCCB):**

Technical Parameters of Moulded Case Circuit Breaker (MCCB):

a)	<b>Rated normal current</b>	:	<b>As per BOQ.</b>
b)	<b>Impulse Voltage</b>	:	8 kV
c)	<b>Rated Operational Voltage</b>	:	415 V AC
d)	<b>Insulation voltage</b>	:	800 V AC
e)	<b>Rated Frequency</b>	:	50 Hz.
f)	<b>Particulars of Specifications to be complied with</b>	:	IS/IEC: 60947 - 2(2003) or latest amendment.
g)	<b>Type of mechanism</b>	:	Double Break Type.
h)	<b>Number of poles</b>	:	As per BOQ.
i)	<b>Rated short-circuit breaking current (rms).</b>	:	As per BOQ.
j)	<b>Rated service short-circuit breaking capacity (Ics)</b>	=	Rated breaking capacity (Icu)=100%
k)	<b>Mechanical Life (Min)</b>	=	25000 no. of operations up to and including 250A

			20000 no. of operations up above 250A up to and including 630A .
l)	<b>Electrical life @ 415V (Min)</b>	=	8000 no. of operations up to and including 250A.
			7000 no. of operations up above 250A up to and including 400A .
			5000 no. of operations up above 400A up to and including 630A .

i. **INSTALLATION:**

The installation work shall cover assembly of various sections of the panels lining up, grouting the units etc. In the case of multiple panel switch boards after connecting up the bus bars etc., all joints shall be insulated with necessary insulation tape or approved insulation compound. A common earth bar shall be run inside at the back of switch panel connecting all the sections for connection to earth system. All protection and other small wirings for indication etc. shall be completed before calibration and commissioning checks are commenced. All relays, meters etc. shall be mounted and connected with appropriate wiring.

j. **TESTING AND COMMISSIONING:**

Verification & testing will be done as per IEC-61439 Part-I & II. Type test certificates for Switchgear and TTA Panel from OEM needs to be submitted. If required design verification from OEM for the panel needs to be submitted for the panel of such rating.

Commissioning checks and tests shall include all wiring checks and checking up of connections. Relay adjustment/setting shall be done before commissioning in addition to routine Megger tests. Checks and tests shall include the following:

- i. Operation checks and lubrication of all moving parts.
- ii. Interlock function checks.
- iii. Continuity checks of wiring, fuses etc. as required.
- iv. Insulation test: When measured with 500 V Megger the insulation resistance shall not be less than 100 mega ohms.
- v. Trip tests and protection gear test.

**Note:** TEST AT MANUFACTURERS WORK: All routine tests shall be carried out and test certificates produced to the department.

C. **Technical Specification for Modular Switch, Modular Socket, DBs:**

- a) **SWITCHES:** The modular switch shall be as per following/ have features mentioned below:
- Suitable for 240V, AC, with normal gap constructions, Flush type, Screw type terminal, IP20.
  - Fire retardant & Non-Flammable insulating parts.
  - Marked with IS 3854:1997.
  - Snap fit with Modular Plates for easy installation.
  - Double rocker mechanism to prevent visible spark.
  - Copper contact with silver tips for less spark & longer life.
- b) **SOCKETS:** The modular sockets shall be as per following/ have features mentioned below:
- 240V, AC, Flush type, Screw type terminal, Shuttered.
  - Fire retardant Non-Flammable insulating parts.
  - 6A, 6/16A Socket market with ISI, as per IS 1293:2019.
  - Snap fit with Modular Plates for easy installation.
  - Copper current carrying parts.
- c) **DISTRIBUTION BOARDS:** Door earthing should be provided. There should be gasket. The DB should have hinge type Door with easy door reversibility. The DB door should have 180 degree swivel. There should be shrouded neutral link and separate earth link. DB should be as per IS/IEC-61439-3. Test certificate should be provided by OEM of DB.

#### D. Technical Specification for Fire Alarm:

##### MULTI SENSOR DETECTOR

The Multi Sensor Detector shall be deployed as a smoke detector, heat detector or as a combination detector, as per the site requirement.

- Principle of function shall be “Scattered light” and “NTC sensor”.
- Smoke detection shall also always involve temperature evaluation.
- In the event of a rapid increase in temperature, it should get annunciated without the formation of smoke.
- Smoke and temperature sensors would be able to be activated and disabled separately.
- Detectors should have in-built integrated short circuit isolator which shall ensure, in the event of a wire break or a short circuit, the fault is localised and that the operation the loop circuit continues unimpeded.
- The detectors should constantly monitor their surrounding conditions with regard to absolute highest temperature and relative temperature increase and

should calculate the optimum smoke and heat sensitivity for the area it is deployed in based on these factors.

### **REPEATER PANEL**

The repeater panel should possess the following characteristics

- Connection for EPI-Bus (various other indication and operating devices)
- Status lists (alarms, faults, disablements, etc.)
- Status indication on the 1st line of the display
- Zone operation, Group operation

### **MANUAL CALL POINT**

- The addressable Manual Call Point (MCP) should be capable to manually trigger a fire alarm and should be suitable for connecting to OEMs loop technology.
- The MCPs should contain a short circuit isolator and an alarm LED. The alarm should be triggered by smashing the glass panel, with the alarm remaining in alarm state until a new glass panel is inserted.

### **ADDRESSABLE LOOP POWERED SOUNDER**

The Addressable loop powered sounder should emit signal for acoustic signalling of a fire alarm in indoor areas, suitable for direct connection to the loop. The siren should be with four different types of tone and the volume being set using switches.

The Parameters of loop powered sounder should be

- Signal volume: 89 to 99 dB / 1 m (dependent on sound)
- Short Circuit Isolator: Integrated

### **INPUT / OUTPUT MODULE**

The Input/ Output module should contain 2 relays each containing a potential-free double-throw contact with the power supply also being internally monitored on the loop circuit for under voltage. It should be able to monitor PFC contacts either from beam detector, flow switch like devices. It should also contain an integrated short-circuit isolator. The protection class of Input module shall be IP 66 with case and with wide operating ambient temperature range.

### **RESPONSE INDICATOR**

Dual LED should be there and should actuate at the time fire detected in the detector connected with it.



## **JUNCTION BOX:**

4"/4" metal Junction box made of 16SWG sheet steel is to be provided for mounting of detectors in the concrete mother ceiling along with necessary glanding.

## **CABLES**

### **Item Details:**

Following sizes of XLPE insulated, armoured, overall PVC sheathed FRLS Copper conductor cable of approved make of 1100 volts grade conforming to IS: 7098(Part - I) / 1988 with latest amendment, are included under the scope of this tender for loop cabling

- a) 2 C X 1.5 sq.mm XLPE insulated PVC sheathed FRLS armoured Copper cable
- b) 4 C X 1.5 sq.mm XLPE insulated PVC sheathed FRLS armoured Copper cable
- c) 8 C X 0.75 sq.mm shielded twisted pair cable for repeated panel with PVC conduit

± 5% variation will be allowed as per practice.

It is to be ensured that before dispatch, both ends of the cables are properly sealed to prevent ingress of moisture in the insulation. Direction of arrow must be marked on the cable drum.

The contractor shall dispose of the debris in connection with this job beyond the office area all at his own expenses by his own transport and labour and clean out all part of the work and leave everything clean and tidy to the entire satisfaction of the Engineer

Following locations of the building will be covered with detectors & devices at the moment:

<b>Sl. No.</b>	<b>Floor</b>	<b>Location</b>
1.	Ground Floor	Entire Gr. Floor of the building
2.	1 <sup>st</sup> Floor	Entire 1 <sup>st</sup> floor of the building

Detectors are to be placed at the above-mentioned areas including above false ceiling areas, wherever applicable. Response indicators are to be given for detectors, placed above false ceiling as well as for any closed rooms/chambers etc. The quantify of devices will be as per actual measurement and will be determined after detailed engineering which will be made by the successful bidder. However, it will be certified by the Engineers of SMPK.

#### **E. Technical Specification for Ceiling Fan:**

1200 mm. sweep, AC energy saving BLDC ceiling fans, conforms to IS: 374 should have following technical details along with details in BOQ:

- a) Rated Voltage: 230 V (Nominal), A.C. single phase, 50 Hz.
- b) Bearing: Fitted with Double Ball Bearings.
- c) Fittings: Fitted with suitable length down rod, hanging shackles and all other necessary hardware items. Length of down rod should be as per site requirement and may vary from standard size. Costing for the suitable length should be included in the installation part of BOQ for ceiling fans.
- d) Winding : Winding must be of super-enamelled copper wire.
- e) Air Delivery: As per BOQ in CMM (cubic meter per minute).
- f) Speed: As per BOQ.
- g) Rating: BEE 5 Star.

#### **F. Technical Specification for Exhaust Fan:**

300 mm. Sweep, min 900 RPM Heavy Duty Exhaust Fan suitable for use with 230 V (nominal), 50 Hz., AC single phase system. The Exhaust Fans should generally conform to IS: 2312 and complete with Frame, Blade, and continuously rated capacitor type single phase induction motor and all accessories. The Exhaust Fans should have double ball bearings, and the winding of the Motor must be of super enamelled copper wire.

#### **G. Design basis for AC System:**

The Air-conditioning system will work for cooling purpose in summer season only. Desired Room Temperature to be achieved in Summer is 73 degree F +/- 2 degree F DBT for outside temperature up to maximum 105 degree F +/- 2 degree F DBT. Inside RH in Summer is to be considered 55% +/- 5%. There should be energy reclaim ventilation system capable of supplying fresh air of 850cfm. There should be suitable CO2 sensors to control the airflow rate so that CO2 level inside the room can be controlled in both Summer & Winter season.

#### **H. Technical Specification for Lift:**

The proposed lift will be G + 3 machine room less, gearless lift.

No. of passengers : 8

Size of the existing Lift Shaft : 1760 mm x 1670 mm [approx.]

Door opening : Centrally opening door.

Lift Control Panel : Microprocessor based

Door Drive : DC Drive/VVVF Drive.

Landing Doors : Fully Automatic Landing Doors in Stainless Steel Hairline Finish

Car Walls & Doors : Stainless Steel Hairline Finish

Standard Features : (i) PA Speaker

- (ii) Normal lights
- (iii) Emergency Light & Alarm
- (iv) 3 way Intercom telephone set
- (v) Anti- Nuisance Car Call Protection
- (vi) Overload Detection with alarm
- (vii) Emergency Fireman Control
- (viii) Emergency Car light unit
- (ix) Infra Red Curtain Door Protection
- (x) Door Time Protection
- (xi) Auto light & Fan Cut off
- (xii) Door Open/ Close Button
- (xiii) Automatic Rescue Device with audio announcer.
- (xiv) Provision for CCTV Interface.

**Drawing & Technical Brochure:** After receiving of order letter the contractor will submit GA drawings of lift, as applicable along with technical brochure for approval of Engineer. Final GA drawing as applicable and technical brochure in triplicate will be submitted by the contractor during commissioning and handing over.

The said lift should be renovated completely. The price includes any labour charges and other charges, if any, for completion of work. Necessary tools, tackles etc. are to be brought by you without any extra charges.

The work shall be carried out as per Indian Electricity Act, 2003, Central Electricity Authority (Measures Relating to Safety and Electric Supply) Regulations, 2010 with latest amendments and latest revised IS code of Lifts i.e. IS-4666 or latest standards & amendment.

#### **I. Technical Specification for Luminaires:**

As per BOQ. Reports such as LM-79, LM 80, TM-21 Projection etc. or any other report from NABL or other national or internationally accredited lab along with Technical datasheet for luminaires, driver needs to be submitted from OEM in order to substantiate technical data mentioned in the BOQ. And drivers to be used are of make PHILIPS/MEANWELL/OSRAM/BAG/INVENTRONICS. Apart from the makes mentioned here, LED Luminary manufacturers can use their own make LED driver meeting the specifications as mentioned in the tender document and complying with Safety requirements (IEC 61347-1, IEC 61347-2-13) & performance requirements (IEC 62384). Compliance certificates from the OEM in this regard are to be submitted. Valid BIS Certificate having R-Number for luminaires & drivers has to be submitted.

#### **List of Preferred Makes**

<b>Item</b>	<b>Preferred Make</b>	<b>Additional make of items, if any</b>
ACB/MCCB LT Panel	ABB/Siemens/Schneider/ L&T/Legrand/Their authorized System Integrator	
ACB/MCCB / MCB/DB	ABB/Siemens/Schneider/ L&T/Legrand	
Bus Trunking	ABB/Siemens/Schneider/ L&T/Legrand	
Relay unit	ABB/Siemens/Schneider/ Alstom/ GE	
Digital Meter	ABB/Siemens/Schneider/ L&T/Legrand	
Toggle switch, Push button, Time switch, Selector Switch, LED Indicator	Kaycee/ AE/Siemens/L&T/ ABB/ Schneider/ Legrand/	
Cables	Polycab/Gloster/Havells/KEI	
PVC Copper wire for internal wiring	Finolex /Havells / Anchor(Panasonic)/KEI/Polycab.	
Cable termination Kit	Raychem/ 3M/ Denson	
Luminaries	Signify(Erstwhile Philips)/ K-Lite/ Havells/ Wipro/Bajaj	
Exhaust Fan / Ceiling Fan.	Havells/ Usha/ Bajaj / Crompton/ Polar / Atomberg	
AC System	As per BOQ.	
Modular switches & boards/ Socket/Ceiling Rose/ Electronic regulator	Panasonic/ Crabtree/ ABB/ L&T/ Legrand/Schneider	
Floor Raceway/Floor Junction Box/ Pop-up box	Legrand/OBO Bettermann/ MK Honeywell	
Cable Tray	Legrand/OBO Bettermann/ MK Honeywell /Profab	
Rigid Conduit Pipe	ISI Mark	

Fire Alarm Control Panel	Schrack Seconet / Hochiki / BOSCH/Honeywell/Detectomat / Gent	
Active Repeater	Schrack Seconet / Hochiki / Detectomat / BOSCH/Honeywell / Gent	
Multicriteria detector	Schrack Seconet / Hochiki / BOSCH/Honeywell/ Detectomat / Gent	
Communication Cable	Deepcap/Commscope/ Polycab	
Manual Call points	Schrack Seconet / Hochiki / Detectomat / Gent/ BOSCH/Honeywell	
Electronic Hooter/sounder	Schrack Seconet / Hochiki / Detectomat / BOSCH/Honeywell/ Gent	
Control / Monitor Module unit	Schrack Seconet / Hochiki / Detectomat / BOSCH/Honeywell /Gent	
Response indicator	ASES/ Agni / Honeywell/ Schrack Seconet/Bosch/Gent	
Lift	Schindler/Otis/Johnson/Omega/Bh arat Elevators/Kone	

**Note:**

- Items of any other make in addition to the make mentioned in the list of preferred makes may be accepted subject to such items shall comply all the technical specification / requirement mentioned in the tender document.
- Request for consideration of such (additional make) of items shall be supported with certificate from any Central Govt. organization, Public Sector Units, PWDs, State Govt. organizations regarding satisfactory working / performance of those items during the last three years (minimum) (prior to the starting date of submission of subject e-tender).
- If any additional make for any item is proposed, the same shall be indicated in the column mentioned above and it should be duly signed and uploaded.

If the supporting documents for the aforementioned clauses are not submitted by the bidders in the techno-commercial bid then, it would be considered that the bidders will provide items from list of preferred make only.

**If at any stage, it is found that the item offered with make other than preferred make mentioned as above is not acceptable due to non-fulfilment of the afore-stated criteria or otherwise, the bidder is bound to supply items of preferred make with no additional cost.**

**Note:**

**Preference to Make in India:** The policy of the Govt. of India to encourage “Make in India” and promote manufacturing and production of goods and services in India as per the “Public Procurement (Preference to Make in India), Order 2017- Revision regarding”, circulated by the Department of Promotion of Industry and Internal Trade, Ministry of Commerce and Industry, Govt. of India vide Order No. P45021/2/2017-PP (BE-II) dated 04.06.2020; subsequently revised vide Order No. P-45021/2/2017-PP (BE-II) dated 16.09.2020 will be applicable for this tender.

**Bidder from a country sharing land border with India:** Any bidder from a country which shares land border with India will be eligible to bid as per the OM No. F6/18/2019-PPD dated 23.07.2020 circulated by the Department of Expenditure (Public Procurement Division), Ministry of Finance, Govt. of India.

**Import from Prior Reference countries:** Attention is invited to the provision contained in Ministry of Power, Govt. of India’s Order no. 25-11/06/2018-PG dated 02.07.2020 which reads that “Any import of equipment/components/parts from “prior reference” countries as specified or by persons owned by controlled by or subject to the jurisdiction or the directions of these prior reference countries will require prior permission of the Govt. of India.” It is hereby clarified that for the purpose of aforesaid stipulation, “prior reference” country means a country which shares a land border with India.

Attention is further invited to Ministry of Power, Govt. of India’s Order no. 25-4/1/2019-PG-Part (1) dated 02.07.2020 wherein it is clarified that “Notwithstanding above, it is further clarified that the restrictions related to “prior reference” countries will not apply in the following cases:

- A. The bidders/imports from those countries (even if sharing a land border with India) to which the Government of India has extended lines of credit or in which the Government of India is engaged in development of projects. Updated lists of countries to which lines of credit have been extended or in which development projects are undertaken are given in the website of Ministry of External affairs.
- B. Bona fide procurements made through GeM without knowing the country of bidder till the date fixed by GeM for the purpose.
- C. Bona fide small procurements, made without knowing the country of bidder and
- D. In projects which receive international funding with the approval of the Department of Economic Affairs (DEA), Ministry of Finance, the procurement guidelines applicable to the project shall normally be followed.”

### **INSPECTION & TESTING**

All the reports regarding Type, Routine Tests need to be submitted. The contractor also needs to provide any other technical document, valid certification, valid test report etc. from OEM, as asked by SMPK, in order to establish Technical

Specification given in the tender document. Any other tests as per standard available may be carried out or valid report from National (Govt.)/International Accredited Lab is to be provided as per the direction of the Engineer to substantiate any parameters as mentioned in this tender document. The inspection of the material, as per direction of SMP, Kolkata, may be carried out at factory premises and/or at site as per direction of Engineer, based on the QAP(from OEM) and relevant standards mentioned in the Tender Document, by SMP, Kolkata and/or 3rd party like IRCLASS/IRSS/ Lloyds/ BV/ DNV/ ABS or Govt. Institute/ University(Appointed by SMP, Kolkata). Representative of SMP, Kolkata may also be present during such inspection. Cost of inspection by Third Party will be borne by SMP, Kolkata. However, successful bidder has to arrange for the inspection at factory premises, which they need to consider in their bid. An intimation regarding inspection shall be given in writing at least 15 days prior to the actual date of inspection.

**NOTE:** SMP, Kolkata shall have full liberty from time to time and at all times to inspect, examine and test the materials/equipment at site or at manufacturers' premises & workmanship. SMP, Kolkata shall reject any or all of the materials/equipment, workmanship at any and every such time, which may seem to them defective or unfit or improper for the purpose to which they are applied or intended to be applied to or not in accordance with the description mentioned in or intended by the specification of the Contract.

Cost of carrying out inspection at manufacturer's premises is in the scope of contractor and thus should be considered by them in their BOQ. Inspection will be carried out as per relevant Standard/ Technical Specification/ Approved Drawing/ QAP etc. Manufacturer's Test and guarantee certificate, as applicable, will have to be submitted for verification.

High voltage, Insulation Resistance, Earth Continuity and Earth Resistance tests etc., as applicable, prior to commissioning are to be carried out for electrical installation including LT/HT cable (if any). All pre-commissioning tests shall be carried out by the authorized representative of the firm having valid Supervisor's Certificate of Competency.

**4.1 स्थान / LOCATION:**

The work shall have to be executed at **SUBHAS BHAWAN, Kolkata.**

**5. साइट तक पहुंच / ACCESS TO THE SITE:**

(a) सड़क द्वारा / By Road: From **CGR** Road.

(b) सर्कुलर रेल द्वारा / By Circular Rail: **Khidirpur** Railway Station

**6. कार्य स्थल / WORK SITE:**

The work site is located at **SUBHAS BHAWAN** Area of Syama Prasad Mookerjee Port, Kolkata. Tenderer must visit the work site and its surrounding before submission of the tender, so that due consideration is given to the local conditions at site. The intending tenderer should contact **Superintending Engineer (Netaji Subhash Dock) 51, C.G.R. Road, Kolkata 700043** and **Superintending Engineer (Electrical, M&EE Deptt) No. 8 Work Shop, Kolkata 700043** to make the site inspection along with his representative.

**7. साइट का निरीक्षण / 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 **Superintending Engineer (Netaji Subhash Dock) at his office at 51, C.G.R. Road, Kolkata 700043 for Civil Work** and for Electrical work **Superintending Engineer (Electrical) at his office at No. 8 Work Shop at G.R. Road, Kolkata 700043** 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.

**8. साइट की शर्तें और काम करने का तरीका / SITE CONDITIONS & METHOD OF WORK:**

The work shall have to be executed at Within Dock Area of Netaji Subhash Dock under the jurisdiction of **NSD (Netaji Subhash Dock) Division** as detailed in the Scope of Work & B.O.Q.

The contractor shall take adequate measures so as to execute the work with due regard to the above. The cost of which shall have to be included in the quoted rates.

Further, if so required by the Engineer in the interests of normal working of the Port, if it is found necessary to shift / suspend some construction activity for some duration, this shall be done in compliance with the instructions of the Engineer and as per relevant clause of the G.C.C. The bidder shall consider all the above points while quoting as no separate claim for idle charges towards labour, material will be considered for payment.

Proper care should be taken to provide adequate protection to the existing structures and cables (telephone, computer, etc) all such installations against any damage at the Contractor's risk and expense. Any damage / defect to existing structures arising due to the faulty execution of the work shall have to be rectified forthwith as directed to the satisfaction of the Engineer, without charging extra.

**9. पूरा होने का समय / 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 **10(Ten) Months**, including preliminary time from the date of placement of work order.

**10. निविदा की पर्याप्तता / SUFFICIENCY OF TENDER:**



- i) The tender drawings and all data / information as furnished herein or inspected and / or collected by the tenderer for the purpose of the work should be properly assessed, interpolated or utilised in his offer at his own responsibility and SMPK does not guarantee sufficiency or adequacy of the data / information so supplied to him or collected or understood by the tenderer.
- ii) The Contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender for the works and of the rates stated in the priced Bill of Quantities and the rates shall cover all his obligations under the contract and all matters and things necessary for the proper construction, completion, commissioning and maintenance of the work.
- i) In case rate of particular item is printed erroneously in B.O.Q., the rate stated in the schedule of rates will prevail over the rate misprinted in B.O.Q.

**11. जाँच और पर्यवेक्षण के लिए पहुँच / ACCESSIBILITY FOR CHECKING AND SUPERVISION:**

The engaged Contractor is to provide necessary arrangement for free access to the SMPK officer's and personnel for supervision and checking of the subject work at his own cost.

**12. कार्यक्रम और प्रगति / PROGRAMME AND PROGRESS:**

The contractor shall submit a detailed **programme of work** within **7 [seven] days** from the date of Work Order / L.O.I. showing the commencement, duration and completion time of all major items of work including procurement of all materials etc. The sequence of work shown in the programme must be practicable and compatible with technical specifications and conditions prevailing at site.

The contractor shall maintain the progress of work as per the approved programme. In case of any slippage of programme the engineer may require the contractor to augment the input of plant, equipment, labour of any item as he may deem fit. The contractor shall comply with the engineer's directive in this regard, without any extra charge whatsoever.

In case of delays caused due to conditions or circumstances beyond the control of the contractor, the delays must individually be informed to the Engineer forthwith in writing and his acceptance in writing obtained.

**13. कार्यों की पद्धति के लिए ठेकेदार की जिम्मेदारी / RESPONSIBILITY OF THE CONTRACTOR FOR METHODOLOGY OF WORKS:**

- i) The Contractor shall be solely responsible for the methodology and detailed working for the whole of the works, keeping in mind the site conditions and shall supply to the Engineer such particulars thereof as he may require from time to time.
- ii) The Contractor shall submit within the time stipulated by the Engineer in writing, the details of actual methods that would be adopted by the Contractor for the execution of each item of the work supported by necessary details.
- iii) Approval, for the Drawings and sketches, if necessary including those of the plant and machinery that would be used, their locations, arrangements for conveying and handling materials etc., should be obtained from the Engineer well in advance for starting each item of work. The Engineer reserves the right to suggest modifications or make concrete changes in the methods proposed by the Contractor whether accepted previously or not at any stage of the

work, to obtain the desired accuracy, quality and progress of the work, which will be final and binding on the Contractor.

**15. सामग्री / MATERIALS:**

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 and other materials from manufacturers approved by the Engineer-In-Charge.

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.

**16. गुणवत्ता नियंत्रण / QUALITY CONTROL:**

Quality control is an essential part in the construction of and must be based on proper objective and qualitative measurement. The Contractor will have the full responsibility for quality control and delivering the acceptable quality in the field. Regular appraisal of the quality control to the Engineer should be made for effecting improvements in the construction techniques to ensure satisfactory quality of work. The quality control function shall include but not be limited to the following items.

**17. निर्माणसामग्रीकानमूनाऔरपरीक्षण / SAMPLING AND TESTING OF CONSTRUCTION MATERIALS:**

Essentially to be carried out on the materials brought to site for construction work unless permitted otherwise by the Engineer. The Contractor shall undertake all field tests and laboratory tests for all such materials and workmanships as directed by the Engineer or his representative at his own cost. The samples shall be taken for test jointly by the representatives of the Engineer and the contractor at the worksite and tested /sent to a Govt. registered laboratory or Institutional laboratory as may be decided by the Engineer for testing. In case of field test, the contractor shall undertake the test by his own testing equipments or by any approved agency in presence of the representatives of the Engineer and the contractor at the worksite. All the testing charges and all incidental charges like packaging and transporting the test samples, equipments etc. shall be borne by the Contractor.

**18. निर्दिष्टीकरण / कोड और मानक / SPECIFICATIONS/ CODES AND STANDARDS:**

All works under this contract will be executed according to the Trustees' Specification for works. Whenever the details are not specifically covered in the specifications, relevant provisions in the latest revision and/ or replacements of the Indian Standard Specifications (IS) or any other International Code of Practice/ CPWD specifications will be followed. The Contractor shall have to procure copies of such codes/ standards for ready reference of his own personnel as well as the Engineer or his representative at site at his own cost and without any additional reimbursement.

**19. अस्थायी कार्य / TEMPORARY WORKS:**

The successful tenderer shall allow for providing labour and materials for the construction and removal of all temporary works, e.g. site office, site store, scaffolding, fencing lighting; watching, tube well and pipe lines etc. required for constructional purpose as well as for

drinking water purpose of contractor's men, water supply, vats, platform, etc. as may be necessary for the successful execution, completion and maintenance of works without any extra cost to the Trustees and the rates should be quoted accordingly. No rent shall, however, be charged to the contractor for construction/erection of such temporary sheds and structures.

**20. संयंत्र और निर्माण उपकरण / PLANT & CONSTRUCTIONAL EQUIPMENT:**

The contractor shall supply his tools, plants and constructional equipments within his quoted rates. A list of plant as intended to be employed by the tenderers in this construction must be furnished with full details along with the tender.

**21. कौंट्राक्ट क्रीमत / CONTRACT PRICE:**

The "Contract Price" for this contract means the sum named in the tender subject to such additions thereto, deductions there from or reductions due to supply of any materials by the Trustees' as provided for in the Contract.

**22. काम और प्रारंभिक माप से बाहर सेट करना / SETTING OUT OF WORK AND INITIAL MEASUREMENTS:**

The Engineer shall provide the initial reference and Bench Mark for the setting out of work. It will be the contractor's responsibility to set out the work accurately and get them checked by the Engineer. The Contractor shall provide at his own expense all necessary instruments, staff and labour for the checking of the survey.

The Contractor shall be responsible for the true setting out of the work and for the correctness of all dimensions, levels, lines, positions and alignment. Any error in any part of the works shall be rectified by the Contractor at his own cost. The Contractor would set up inspection facilities at Site at his own cost.

**23. सामग्री का अग्रेषण / FORWARDING OF MATERIALS:**

The contractor shall have to arrange transport for forwarding any useable/ saleable materials that may

be found during the process of execution of the work to the Trustees' Sales yard or any other site/

godown including labourers, transportation, loading, unloading all complete as per the direction of the

Engineer or his representative at site. No separate payment will be made to the contractor on this account unless specifically mentioned in the B.O.Q.

**24. मौजूदा कार्यों का विवरण / PARTICULARS OF EXISTING WORKS:**

Such information as maybe given in the specification as to the existing features and works other than those now under construction as part of "Syama Prasad Mookerjee Port, Kolkata" given without warranty of accuracy and neither the Trustees nor the Engineer will be liable for any discrepancies therein.

**25. सुरक्षा उपाय / SAFETY MEASURES:**

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, equipments 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, equipments, 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 Equipments) such as, helmet, safety shoe 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-In-Charge.

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 equipments 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 vegetations 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.

#### **26. छुट्टी या रविवार का काम / HOLIDAY OR SUNDAY WORK:**

Subject to provisions in local Acts and any statutes of the State, the Contractor shall arrange for working on Holidays and Sundays whenever so desired by the Engineer to expedite progress and complete the works in time.

The Contractor shall not be entitled to any additional payment for taking up works on Holidays and Sundays. The Contractor should be prepared to resort to round-the-clock working by following shift timings for labour.

#### **27. बिजली की आपूर्ति / 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' Engineer or his representative.

**Charges for consumption of power shall be periodically recovered from the Contractor's Bill** at the rates of SMPKas prevalent amended from time to time 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.

**28. जलापूर्ति / WATER SUPPLY:**

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 purposes may be made available free of cost 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.

i) Under no circumstances, the contractor would be allowed to use such drinking water for constructional works.

ii) In any case Dock water will not be allowed to be used for any work including curing.

**29. साइट और कार्य क्षेत्र को साफ रखना / 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.

**30. मौजूदा सेवाओं की सुरक्षा / PROTECTION OF EXISTING SERVICES:**

The contractor must pay full attention to the fact that the existing service facilities for users are not distributed at any time due to storing of materials and rubbish and take every precaution to keep the entrance passage clear if the same are being used by the laborers.

The contractor shall be held liable for all damage and interference to the existing service, caused by him in execution of works. Should any damage be done to the existing services, in general, the contractor shall make good the same and any further work considered necessary by the Engineer's representative without any delay otherwise the cost of such repairing shall be recovered for his running bill for which Engineer's decision shall be final and binding.

**31. निष्पादन के दौरान और समापन के बाद सफाई / CLEANING DURING EXECUTION AND AFTER COMPLETION:**

On completion of the works the contractor shall reinstate and make good at his own expense any property or land which might have been disturbed and/or damaged by his works. He should also clean the site as required during execution and fully clear the site after completion of all the works.

The contractor shall forward any usable materials found during the course of construction at the work site or its vicinity to SMPK stores/yards, dispose off the debris beyond the port area all at his own expenses by his own transport and labour and clean out all part of the work and leave everything clean and tidy to the entire satisfaction of the Engineer, failing which suitable deduction will be made from final bill as per discretion of the Engineer/Engineer's representative.

**32. माप की विधि / 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, S&P & Road) Schedule of Rates (2014), 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.

**33. खाते में भुगतान / ON ACCOUNT PAYMENT:**

On account payment to the Contractor shall be arranged as and when required at the discretion of the Engineer on the basis of measurements of completed works at the quoted rates in the Bill of Quantities. The terms of payment shall be in accordance with Clause-6 of the General Conditions of Contract. The Bills should be submitted by the contractor in quadruplicate to the Office of the respective **Superintending Engineer (Netaji Subhash Dock) and Superintending Engineer (Electrical, M&EE Deptt.)** with necessary documents (including test certificates of Third Party, as applicable, for electrical, fire-alarm & air-conditioning work) in original. Subject to the availability and feasibility of system, SMPK 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 SMPK. In case of extra item of work for electrical, fire-alarm & air-conditioning, the contractor needs to submit original invoice of OEM for materials/spares consumed in the said extra work for consideration of SMPK.

**34. श्रम, उपकरण और पौधे / LABOUR, TOOLS & PLANTS:**

The Contractor shall supply all necessary labour, tools and plants required for satisfactory execution of the work.

**35. कीमतों में वृद्धि/भिन्नता / ESCALATION / VARIATION ON PRICES:**

No Escalation / Variation on the prices on any account will be considered for adjustment / payment.

**36. अनुबंध श्रम कानून / CONTRACT LABOUR LAWS:**

The contractor shall be required to comply with the Minimum wages Acts 1948, Employees Liability Act, 1938, Industrial Disputes Act, 1947, and The Contract Labour (Regulation and Abolition) Act, 1970, or statutory amendments and the modifications thereof, any other laws relating thereto and the rules made there under from time to time. **Payment to the labourers to be made as per the minimum wage rates fixed by Chief Labour Commissioner (Central) and as per M.W.A. Govt. of W.B. whichever is higher and revision from time to time.**

It will be the duty of the contractor to abide by the provisions of the Act. Ordinances, Rules, Regulations, Byelaws and Procedures as are lawfully necessary in the execution of the works. The contractor will be fully responsible for any delay/damage etc. and keep the Engineer indemnified against all penalties and liabilities of any kind for noncompliance or infringement of such Acts, Ordinances, Rules, Regulations By-laws and Procedures. **The Contractor shall comply to the Employees' Bonus rules & to pay Bonus once a year to his workmen accordingly, for which no extra payment shall be made to the Contractor.**

The contractor shall indemnify the SMPK against payment to be made under or for the observance of the laws aforesaid without prejudice to his right to claim indemnity from his subcontractor.

The aforesaid regulations shall be deemed to be a part of this contract and any breach thereof shall be deemed to be a Breach of Contract. It will be obligatory on the part of Contractor to obtain necessary Labour Licence from the Competent Authority for deploying requisite Nos. of labours in the work and submit to the Engineer-In-Charge prior to commencement of the work.

The contractor shall also be required to comply regarding 'Workmen Compensation Act, 1923 as amended by Amendment Act No.65 of 1976'

In addition to the above, the Personal Injuries (Compensation Insurance) Act, 1963 and any modifications thereof and rules made there under from time to time. The contractor shall take into account all the above said financial liabilities in his quoted rates and nothing extra, whatsoever, shall be payable to him on this account.

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 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.

**37. ई.पी.एफ. एवं म.प्र. अधिनियम एवं ईएसआई अधिनियम 1948 का अनुपालन / COMPLIANCE WITH E.P.F & M. P. ACT & ESI Act 1948:**

The successful contractor will have to comply with provision of EPF & MP Act 1952 and also for Employees State Insurance Act 1948 (along with amendments, if any), issued from time to time as applicable.

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. **Superintending Engineer (Netaji Subhash Dock)**.

**38. क्षतिपूर्ति / INDEMNIFICATION:**

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 Equal Remuneration Act, 1976.
- j) The Employees State Insurance Act, 1948 & Employees State Insurance (Amendment) Act ,1989
- k) Child Labour (Prohibition and Regulation) Act, 1986.
- l) The Maternity Benefits Act 1961
- m) Interstate Migrant Workmen (Regulation of Employment & Conditions Of Service) Act, 1979.
- n) Motor Vehicle Act, latest revision.
- o) The payment of Bonus Act,1965.

**39. कर और कर्तव्य / TAXES & DUTIES:**

**The prices quoted shall be including all statutory levies excluding GST, which shall be paid extra.** Supplier/service provider to confirm that the GST amount charged in invoice is declared in its returns and payment of taxes is also made.

- The Supplier/ Service Provider agrees to comply with all applicable GST laws, including GST acts,rules, regulations, procedures, circulars & instructions thereunder applicable in India from time to time and to ensure that such compliance is done within the time prescribed under such laws. Supplier/Service Provider should ensure accurate transaction details, as required by GST laws, are timely uploaded in GSTN. In case there is any mismatch between the details so uploaded in GSTN by Supplier/ Service Provider and details available with Syama Prasad Mookerjee Port, Kolkata, then payments to Supplier/Service Provider to the extent of GST relating to the invoices/s under mismatch may be retained from due payments till such time Syama Prasad Mookerjee Port, Kolkata is not sure that accurate tax amount is finally reflected in the GSTN to SMPK's Account and is finally available to Syama Prasad Mookerjee Port, Kolkata in terms of GST laws and that the credit of GST so taken by Syama Prasad Mookerjee Port, Kolkata is not required to be reversed at a later date along with applicable interest.
- Syama Prasad Mookerjee Port, Kolkata has the right to recover monetary loss including interest and penalty suffered by it due to any non-compliance of tax laws by the supplier/service provider. Any loss of input tax credit to Syama Prasad Mookerjee Port, Kolkata for the fault of supplier shall be recovered by Syama Prasad Mookerjee Port, Kolkata by way of adjustment in the consideration payable.
- Supplementary invoices/Debit note/credit note for price revisions to enable Syama Prasad Mookerjee Port, Kolkata to claim tax benefit on the same shall be issued by bidder for a particular year before September of the succeeding Financial Year.

The purchase order/ work order shall be void, if at any point of time bidder is found be to a black listed dealer as per GSTN rating system and further no payment shall be entertained.

**40. विवादों का निपटारा / 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.

**41. अनुबंध अनुबंध निष्पादित करने के लिए ठेकेदार / CONTRACTOR TO EXECUTE CONTRACT AGREEMENT:**



The contractor after acceptance of his tender shall be required to enter into and execute a Contract Agreement to be prepared in the form annexed to the General Conditions of Contract together with such modifications as may be necessary within one month from the date of placement of the order. The contractor shall have to submit copies in sextuplets of all documents; correspondence, connected papers etc. as detailed in the above form of Contract Agreement together with the instrument of Contract Agreement prepared on Non-Judicial stamped paper of requisite denomination having five more copies made on plain paper all at his own cost. The successful tenderer shall have to submit three sets of such Contract Agreement duly executed, sealed, signed and witnessed for execution by the Trustees. The other three sets shall be completed in all respects but not signed. If the successful tenderer or tenderers are a partnership concern, they will have to get Agreement signed by all the partners or by the partner who is authorized to sign for and on behalf of the other partners.

The contractor shall also comply with the requirements of Security Deposit for the due fulfillment of the contract. The blank proforma of tender documents shall be supplied in sextuplets to the successful tenderer free of charge for preparing the documents of the aforesaid Contract Agreement.

The successful tenderer shall have to copy out and prepare the documents of the Contract Agreement neatly and correctly. The necessary amendments, corrections etc. (if any) have to be done at his own cost. The successful contractor shall be required to keep close co-ordination and liaison with the Marine Department while executing the works. The **Superintending Engineer** in charge of the construction will direct the representatives of the contractor to maintain liaison with different sections of the other departments and the contractor must keep the concerned **Superintending Engineer** of the Civil Engineering Department informed and/or posted with the programme contemplated with other departments. The **Superintending Engineer** of the Civil Engineering Department shall be nodal authority in all these co-ordinations and / or liaison and all programmes must be vetted by him. In cases of exigencies, the contractor or his representatives may establish direct liaison/co-ordination but in all such case the **Superintending Engineer** should be informed promptly.

**42. स्थानीय संसाधनों का नियोजन / EMPLOYMENT OF LOCAL RESOURCES:**

The contractor shall pay special attention to engage the maximum possible number of local Engineer, other technical personnel, office workers; labourers (skilled, semiskilled, unskilled) both at site and in office, details of such recruitment etc. shall be submitted to the Engineer periodically or as and when called for.

**43. कोलकाता पोर्ट ट्रस्ट / KOLKATA PORT TRUST:**

The expression "**KOLKATA PORT TRUST**" appearing anywhere in the tender documents, shall be construed to read as "**SYAMA PRASAD MOOKERJEE PORT, KOLKATA**".

**44. बोलियों का स्पष्टीकरण / CLARIFICATION OF BIDS:**

To assist in the examination and comparison of Tenders, the Employer may, at his discretion, ask any Tenderer for clarification of his Tender, including breakup/analysis of unit rates. The request for clarification and the response shall be in writing, but no change in the price or substance of the Tender shall be sought, offered, or permitted except as required to conform the correction of arithmetic errors discovered by the Employer in the evaluation of the Tenders.

No Tenderer shall contact the Employer on any matter relating to his Tender from the time of the Tender opening to the time the contract is awarded. If the Tenderer wishes to bring additional information to the notice of the Employer, he should do so in writing.

Any effort by the Tenderer to influence the Employer's Tender evaluation, Tender comparison or contract award decisions, may result in the rejection of his Tender.

**45. कामगार और मजदूरी / WORKMEN AND WAGES:**

The Contractor shall deliver, if ordered, a weekly return for all labour employed in writing in the requisite form as instructed by the Engineer or his representative.

The contractor shall have to engage sufficient number of technically qualified and skilled persons to supervise and execute the work **and this should be mentioned in the letter head of the Firm.**

**46. अतिरिक्त मदों के लिए भुगतान की दर / RATE FOR PAYMENT AGAINST EXTRA ITEMS:**

For any unforeseen work not covered under the Bill of Quantities and Condition of Contract, depending on contingent situation at site, if required for successful completion of the work, extra items have to be carried out by the Contractor. If those items are already available in Trustees' Schedule of rate, payment will be made on the basis of Trustees' Schedule of rate; including surcharge in force at the time of acceptance of the tender, if any adopted by the Trustees with due regard to the accepted contractual percentage, if any, thereon, otherwise, if the rates are not available in the SMPK Schedule of Rates, then the Special Rates will be prepared as follows:-

(i) The rate of payment of work involving labour & material shall be fixed on the following basis.

- a) Cost of materials consumed including transport and wastage, plus
- b) Cost of labour actually engaged in the works, plus
- c) Taxes and Duties as applicable, plus
- d) 16 % on the aggregate of (a) and (b) towards overhead, profit and cess.

(ii) For any work involving only labour, rate of payment shall be fixed on cost of labour actually engaged in the work plus 11 % towards profit and cess.

(iii) For only supply of any material at site, rate of payment shall be fixed on actual cost of material plus transport, loading & unloading (if any) plus 11 % towards profit and cess.

**47. उद्धृत दर/राशि में असमानता / DISPARITY IN QUOTED RATE/AMOUNT:**

If there is any disparity between the quoted rate in percentage and the Tender Amount, the rate quoted in percentage shall prevail as the rate quoted by the tenderer and the Tender Amount shall be derived by adding/subtracting (as the case may be) this percentage with/from the Estimated Value put to tender. Similarly, in case of disparity between the rate quoted in figures and in words, the rate quoted in words shall prevail.

**48. डॉक परमिट / DOCK PERMIT:**

For works inside the Docks, Dock permit required for men, materials, vehicles and equipments etc. are to be procured by the successful tenderer **at free of cost** as per recommendation of the executing departments/divisions indicating the specific number of free permits to be issued. But for creation of individual IDs in permit system a charge as applicable, will be levied per person (one time) even for companies/ Individuals who have been granted permission to obtain free permits by SMPK. In case the work has to be carried

out in an operational zone, the tenderer should keep in mind that the work is to be executed without hampering the operational activities and should complete the work within the stipulated time specified in the tender.

**49. कार्य अवधि / WORKING PERIOD:**

Normally the work will be carried out between **8 A.M.** to **5 P.M.** on the Trustees' working days only. However, the tenderer should note that he might be required to carry out the job on Sundays, holidays and after normal working hours and at night in addition to the normal working hours to expedite the progress of the work if permitted by **Competent Authority**. The tenderer should include in his rates the cost, if any, involved on those accounts.

**50. नकद सुरक्षा जमा के एवज में बैंक गारंटी / BANK GUARANTEE IN LIEU OF CASH SECURITY DEPOSIT:**

Security deposit shall be recovered from the On A/C. Bill as per **Clause – 3.4 and 3.5 of General Conditions of Contract**. However, Bank Guarantee may be considered in lieu of Cash Security Deposit. In that case, the Contractor shall have to submit to the Engineer a performance Bond in the form of an irrevocable guarantee from any Nationalized Bank at Kolkata in the proforma as given in the G.C.C. In this context **Clause 3.6 of G.C.C.** may be referred to.

**51. प्रदूषण के खिलाफ उपाय / MEASURES AGAINST POLLUTION:**

The contractor shall have to take proper measures against environmental pollution during execution of work as directed by the Engineer.

The contractor shall, abide by all the regulations and rules of Syama Prasad Mookerjee Port, Kolkata and those that may be issued from time to time without any extra cost to the SMPK.

**52. बंदरगाह क्षेत्र के दायित्व / PORT AREA OBLIGATIONS:**

The Dock area is a custom bounded area and as such the contractor shall comply with all Regulations of the Port and Custom authorities and those that may be imposed from time to time in respect of the transit of all of contractor's plants, vehicles, materials, and staff in the area. Whenever regulations so require, permits shall have to be obtained for such transit of Contractor's plants, vehicles, staff and workmen. The contractor shall instruct his staff and Workmen to comply with all requirements in this "Restricted Area".

The contractor shall suitably fence the area that may be allotted to him inside the "Bonded Area" of the port for stores and other requirements to the full satisfaction of the Port and Security Agencies.

The contractor shall, abide by all the regulations and rules of Syama Prasad Mookerjee Port, Kolkata and those that may be issued from time to time without any extra cost to the SMPK..

**53. दोष दायित्व अवधि / DEFECT LIABILITY PERIOD:**

The defect liability period for the work is **1 (One) year** from the date of completion. During this period, if any defect arises the contractor is bound to repair the same or take any other action as directed by the Engineer including replacement of the defective portion and redoing the same at his own cost **within 7 days in case of repairing and 21 days in case of replacement and redoing from receipt of such instruction** failing which the work may be done by the Trustees' by some other agencies and the cost of which including 19 1/4 % departmental charges plus GST will be recovered from the security deposit or any other dues of the contract.

**54. मात्रा के बिल में त्रुटियां / ERRORS IN THE BILL OF QUANTITIES:**

In case rate of particular item is printed erroneously in BOQ, the rate stated in the Schedule of rates will prevail over the rate misprinted in BOQ.

**55. Performance Security**

Security Deposit shall consist of two parts; i) Performance Guarantee to be submitted at award of work and ii) Security Deposit to be recovered from Running Bills.

Performance Guarantee:

b. The Contractor should submit a Performance Guarantee in the form of B.G. for **10 % of contract** value in SMPK's proforma from a Scheduled/ Nationalised Bank within 21 days from the date of receipt of LOI/Work Order, failing which the contract would be rescinded without any further notice. The P.G. should be obtained for the full period covering defect liability period of 1 (one) years.

The P.G shall be accepted with effect from the date of W.O/LOI. The SMPK bank account details to which amount is to be transferred (accepted only online payable through DD / RTGS / NEFT / Bank Transfer etc) is mentioned below:

A/C: Syama Prasad Mookerjee Port, Kolkata A/c No: 067502000000491

IFSC: IOBA0000675

Bank Name: Indian Overseas Bank Branch Name: STRANDROAD Branch, Kolkata

The contractor shall be required to deposit an amount equal to 10% of the Contract value of the contract as Performance Guarantee. Performance Guarantee is to be furnished within 21 (twenty-one) days after notification of the award and it should remain valid for a period of 60 (sixty) days beyond the date of completion of all contractual obligations of the contractor, including Defect Liability Period (DLP). The performance security will be forfeited and credited to the procuring entity's account in the event of a breach of contract by the contractor.

**56. Refund of performance Guarantee:**

The performance guarantee to be refunded to the contractor without interest, after he duly performs and completes all obligations under the contract but not later than 365 days of completion of the Defect Liability Period (DLP).

**57. Deployment of Technical Staff :**

A. For Civil Works:-

**Minimum Civil technical staff to be deployed for supervision and execution of work:**

Sl. No.	Position	Educational Qualification and Experience	No. of Personnel
1.	Engineer	Graduate in Civil Engineering. Minimum 5 years of experience in execution of Civil Construction Works / Repairing Works .	1
2.	Junior Engineer	Diploma in Civil Engineering. Minimum 5 years of experience in execution of Civil Construction Works / Repairing Works .	1

**Note:**

1. Bidder needs to submit authorization letter for the aforesaid Engineers and supporting educational and experience document during techno-commercial bid. During execution, if the declared technical staff(s) are to be replaced with another staff, prior intimation has to be given to Engineer In-charge for due approval along with aforementioned supporting documents.
2. Additionally, the contractor needs to deploy other technical staff, labours etc. as required for smooth and timely completion of work, **whose details are to be furnished positively in terms of Sl. No. xi of Annexure-D of the tender document**



**SCHEDULE T**

**ANNEXURE-C (Contd.)**

**SYAMA PRASAD MOOKERJEE PORT, KOLKATA**

**CONCURRENT COMMITMENT(S) OF THE BIDDER (i.e. Works in The Hand Of The Bidder  
At The Time Of Submission Of Tender Offer)**

**(To be submitted with Part-I of Offer)**

**Bidders must fill in the under noted columns.**

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. (inRs.)	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)			

**(To be submitted with Part-I of Offer) ANNEXURE-C (Contd.)**  
**SCHEDULE 'O' SHEET – 1**

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 **three 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 :



(To be submitted with Part-I of Offer)

**SCHEDULE 'O' SHEET – 2.**

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:

\_\_\_\_\_  
(Full Signature of Bidder)

**(Proforma of Performance certificate/credential of works)**

[To be issued on issuing authority's letterhead duly signed with office seal]

1.	Name of the Certifying Authority:	
2.	Name of the work:	
3.	Name of the Contractor:	
4.	Schedule date of commencement and completion of the work as per Work Order:	
5.	Date of actual commencement of work & date of actual completion:	
6.	i) If there is time overrun, whether delay is due to the contractor (Yes/No.):  ii) If yes, what is the extent of delay attributable to the contractor:	
7.	Sanctioned Tender value & Actual value executed:	
8.	Quality of work (Excellent/satisfactory/poor):	
9.	Remarks (If any):	

## **ANNEXURE – D**

**भाग-I के साथ अपलोड किए जाने वाले दस्तावेज / DOCUMENTS TO BE UPLOADED ALONG WITH**

### **PART –I**

**अपलोड करने के लिए निम्नलिखित दस्तावेजों की स्कैन की गई कॉपी Scanned copy of the following documents to be uploaded:-**

- i) GST registration certificate.
- ii)a) Valid Trade Licence (Valid for current period & also for type of work).
- b)Copy of **Valid Electrical Supervisor’s License who will carry out & certify the electrical job.**
- iii) Valid Professional Tax Clearance Certificate / Up to date tax payment challan.If this is not applicable, the bidder must submit a declaration in this regard.
- iv) Proof of possessing valid Employees’ Provident Fund (EPF) Account.EPF Registration Certificate.
- v) Proof of being registered with Employees’ State Insurance Corporation (ESIC), ESI Registration Certificate
- vi) Details of the firm as per Schedule-O (in Part-I) of the tender document duly filled up.
- vii) Credentials in the form of copies of Letters of Award of Works along with corresponding Completion Certificates from owners to justify that the intending bidder satisfies the earlier mentioned pre-qualification criteria.
- viii) Balance sheet and Profit and Loss account / Trading account for the last 3 (three) financial years (i.e. **2020–2021, 2021-2022 and 2022-2023**).**The same should be audited as per relevant norms wherever required along with UDIN of the Auditor**
- ix) Bank Draft/ Pay Order etc. regarding **Cost of EMD and Tender documents / valid NSIC certificate.**
- x) PAN Card
- xi) A list of technically qualified and skilled persons would be engaged to supervise and execute the work **(to be mentioned in the letter head of the Firm).**
- xii) Self- declaration of the bidder that the Bidding Firm has Not been debarred / de-listed by any Govt / Quasi Govt. / Public Sector undertaking in India **(to be mentioned in the letter head of the Firm).**
- xiii) Self declaration regarding 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 **(to be mentioned in the letter head of the Firm).**

xiv) 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-C' (Schedule –T) in Part-I of the tender document.

xv) Undertaking of the tenderer to be submitted as per enclosed Pro-forma (Annexure –D-1) in lieu of submission of signed copies of the full Tender document,G.C.C,addenda& corrigendum **in the letter head of the Firm.**

xvi) **Last page of "Bill of Quantities"& the "Form of Tender"** duly filled up (without price quoted) shall be duly signed and stamped by the Bidder.

xvii) Copy of duly Filled up Integrity Pact in Stamp Paper of valued Rs. 100/

xviii)TDS certificate including 26 AS should essentially be submitted to validate the legitimacy of the work completion certificate.

**N.B.-1 The bidder will have to produce the original documents or any additional documents, if asked for, to satisfy the Authorities.**

**N.B.-2**Even though the bidders meet the above qualifying criteria, they are subject to be disqualified if they have made misleading or false representations in the forms, statements and attachments submitted in proof of the qualification requirements and theirEMD will be forfeited for such action.

**NIT NO.SMPK/KDS/CIV /T/2786/58 Dt. 17.11.2023**

**[DOCUMENT TO BE DOWNLOADED, FILLED IN UNDER BIDDER’S LETTERHEAD, SIGNED,  
SCANNED AND UPLOADED]**

**Undertaking to be submitted in lieu of uploading/submitting signed copy of full tender  
document**

Ref. No.....

Dated:

The Chief Engineer,  
Syama Prasad Mookerjee Port, Kolkata,  
Civil Engineering Department,  
15, Strand Road,  
Kolkata – 700 001

Dear Sir,

1. We, .....(Name of Tenderer) have fully read and understood the entire Tender Document, GCC, Corrigendum and Addenda, if any, downloaded from under the instant e-tender and no other source, and will comply to the said document, GCC, Corrigendum and Addenda.

We are submitting this undertaking in lieu of submission of signed copy of the full tender documents GCC, Corrigendum and Addenda.

Yours faithfully,

Signature of Tenderer.....

Name: .....

Designation: .....

Date: .....

Seal of the tenderer:.....

**SYAMAPRASADMOKKERJEEPOR, KOLKATA (Formerly KOLKATA PORT TRUST)**

श्यामा प्रसाद मुखर्जी पत्तन, कोलकाता (पूर्व में कोलकाता पोर्ट ट्रस्ट)

**Civil Engineering Department**

सिविल इंजीनियरिंग विभाग

Office of the Chief Engineer / मुख्य अभियंता का कार्यालय,

6, Fairlie Place, Fairlie Warehouse, Kolkata- 700001/

6, फेयरली प्लेस, फेयरली वेयरहाउस, कोलकाता- 700001।

एनआईटी नं/ NIT NO.: SMPK/KDS/CIV /T/2786/58 Dt. 17.11.2023

**NOTE:** निविदा दस्तावेज डाउनलोड करने की अंतिम तिथि / Last Date of **Download** of tender documents

: 11.12.2023 (upto 14.00 hours)

निविदा प्रस्तुत करने के कारण है / Tender is due for submission by **15.00 Hrs.** On 11.12.2023

निविदा खुलने वाली है / **Tender is due for opening after 13.00 Hrs.** On 12.12.2023

**मूल्य बोली / PRICE BID**

\*\*\*\*\*

निविदा के लिए " सुभाष भवन, श्यामा प्रसाद मुखर्जी बंदरगाह के भूतल और प्रथम तल पर कार्यालय आवास और एयर कंडीशनिंग आदि (एचवीएसी, फायर अलार्म, लिफ्ट) सहित विद्युत स्थापना कार्य में भूतल और प्रथम तल का संशोधन। "

**TENDER FOR "Modification of Ground and first floor into office accommodation and Electrical Installation work including Air –Conditioning etc.(HVAC, Fire Alarm, Lift) at Ground and first floor of Subhash Bhawan , Shyama Prasad Mookerjee Port."**

\*\*\*\*\*

**ANNEXURE-E (CONTD.)**

**E-TENDER FOR “Modification of Ground and first floor into office accomodation and Electrical Installation work including Air –Conditioning etc.(HVAC,Fire Alarm,Lift) at Ground and first floor of Subhash Bhawan , Shyama Prasad Mookerjee Port.”**

निविदा के लिए "श्यामा प्रसाद मुखर्जी बंदरगाह के सुभाष भवन में भूतल और प्रथम तल को कार्यालय आवास में संशोधित करना।

**मूल्य बोली /PRICE BID**

**TENDER PARTICULARS**

अनुमानित लागत/ <b>Estimated Cost</b>	<b>Rs.9,47,48,414.80/ (Rupees Nine Crore Forty Seven Lakh Forty Eight Thousand Four Hundred Fourteen and Paise Eighty Only)</b>
ईएमडी (बयाना राशि जमा) /बोली सुरक्षा/ <b>EMD (Earnest Money Deposit)/ Bid Security</b>	<b>Rs. 18,94,970.00 /- (Rupees Eighteen Lakh Ninety Four Thousand Nine hundred seventy Only)</b>
निविदा दस्तावेज की लागत (नॉन रिफंडेबल) / <b>Cost of Tender Document (Non-refundable)</b>	The intending bidders should submit the tender cost of <b>Rs.2950/-(Rupees two thousand nine hundred and fifty only) including @18% GST</b> to KoPT through DD/Banker’s Cheque in favour of Syama Prasad Mookerjee Port, Kolkata on any scheduled/Nationalised Bank payable at Kolkata otherwise their offer will be summarily rejected. As per cl. 2, page no.12
पूरा होने का समय/ <b>TIME OF COMPLETION</b>	<b>10(Ten) Months.</b>
के डाउनलोड की अवधिई-निविदा (दोनों दिन सम्मिलित) / <b>Period of Download of E-Tender (Both Days Inclusive)</b>	<b>17.11.2023 to 23.11.2023(UPTO 14:00 HRS.)</b> document will be available on website <b>https://kopt.enivida.in).</b> Bidders will have to participate in bidding process through website <b>https://kopt.enivida.in/only.</b>
प्री-बिड मीटिंग और साइट विज़िट के लिए दिनांक और समय / <b>Date and Time for pre-bid meeting &amp; site visit</b>	<b>No pre- bid meeting</b>

<p>ई-निविदा जमा करने और निविदा खोलने की अंतिम तिथि/ <b>Last date of submission of e-tender and opening of the tender</b></p>	<p>प्रस्तुत करना / <b>Submission on 11.12.2023Up to 15:00 hrs.</b> खुल रहा है / <b>Opening on 12.12.2023after 13:00 hrs.</b> <b>(Techno Commercial Part only)</b> (टेक्नो कमर्शियल पार्ट और फाइनेंशियल पार्ट दोनों एक ही तारीख को खोले जाएंगे)</p>
--	--



**SYAMAPRASADMOOKERJEEP, KOLKATA (Formerly KOLKATA PORT TRUST)**

श्यामा प्रसाद मुखर्जी पत्तन, कोलकाता (पूर्व में कोलकाता पोर्ट ट्रस्ट)

**Civil Engineering Department**

सिविल इंजीनियरिंग विभाग

Office of the Chief Engineer / मुख्य अभियंता का कार्यालय,

6, Fairlie Place, Fairlie Warehouse, Kolkata- 700001/

6, फेयरली प्लेस, फेयरली वेयरहाउस, कोलकाता- 700001।

**E-TENDER FOR“Modification of Ground and first floor into office accommodation and Electrical Installation work including Air –Conditioning etc.(HVAC, Fire Alarm, Lift) at Ground and first floor of Subhash Bhawan , Shyama Prasad Mookerjee Port.”**

एनआईटीनं/ NIT NO.: SMPK/KDS/CIV /T/2786/58 Dt. 17.11.2023

1.1 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.

1.2 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-in-Charge or his representative.

1.3 General direction and description of work or materials given elsewhere in the contract documents are not necessarily repeated in the description of items in the “Bill of Quantities”.

1.4 The prices and rates entered by the Contractor in the “Bill of Quantities” shall be deemed to cover the complete and finished work, inter-alia, all costs and expenses which may be required for successful completion of the works together with all risks, liabilities, contingencies, insurance, octroi, royalties, taxes and obligations imposed or implied by the Contractor.

1.5 Where separate items such mobilisation, demobilisation, temporary works etc., have not been provided in the “Bill of Quantities” for works required under the Contract, then the cost of such works shall be deemed to have been included in the prices and rates of other items.

1.6 Without affecting the generality of the foregoing provisions, the prices and rates entered in the Bill of Quantities by the Contractor shall include inter-alia, all costs and expenses involved in or arising out the followings:-

1.7 The provision, storage, transport, handling, use distribution and maintenance of all materials, plans, equipment machineries and tools including all costs, charges dues demurrages or other outlays involved in the transportation.

1.8 The provision and maintenance of all his staff and labours and their payments, accommodation, transport, taxes and other requirements.

1.9 Setting out including the location and preservation of survey markers, measurement and supervision.

2.0 The provision, storage, transport, use handling, distribution and maintenance of consumable stores, fuel, water and electricity.

2.1 All First Aid, Welfare and safety requirements.

2.2 Damage caused to the works, plants, materials and consumables stores caused by weather.

2.3 Licence, fees and other charges for compliance of Government Acts and Rules that are in-force and applicable.

2.4 The Contractor should be held responsible for the safe custody of materials, machineries etc. at site procured by him or issued to him by the Trustees.

2.5 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

2.6 The Contractor shall at all times keep the site and working areas free from all surplus materials, rubbish, other excavated/offensive matter etc. all of which shall be disposed off in a manner to be approved by the Engineer's Representative.

2.7 On completion of the works the contractor shall reinstate and make good at his own expense any property or land which might have been disturbed and/or damaged by his works. He should also clean the site as required during execution and fully clear the site after completion of all the works.

The contractor shall forward any usable materials found during the course of construction at the work site or its vicinity to SMPK stores/yards, dispose off the debris beyond the port area all at his own expenses by his own transport and labour and clean out all part of the work and leave everything clean and tidy to the entire satisfaction of the Engineer, failing which suitable deduction will be made from final bill as per discretion of the Engineer/Engineer's representative.

**SYAMAPRASADMOOKERJEEPORT,KOLKATA (FormerlyKOLKATAPORTTRUST)**

श्यामा प्रसाद मुखर्जी पत्तन, कोलकाता (पूर्व में कोलकाता पोर्ट ट्रस्ट)

**CivilEngineeringDepartment**

सिविलइंजीनियरिंगविभाग

Office of the Chief Engineer / मुख्य अभियंता का कार्यालय,

6, Fairlie Place, Fairlie Warehouse, Kolkata- 700001/

6, फेयरली प्लेस, फेयरली वेयरहाउस, कोलकाता- 700001।

**E-TENDER FOR“Modification of Ground and first floor into office accomodation and Electrical Installation work including Air –Conditioning etc.(HVAC,Fire Alarm,Lift) at Ground and first floor of Subhash Bhawan , Shyama Prasad Mookerjee Port.”**

एनआईटीनं/ NIT NO.: SMPK/KDS/CIV /T/2786/58 Dt. 17.11.2023

**मात्रा का बिल / BILL OF QUANTITIES**

SLNo	Description	Qty	Unit	Rate	Unit	Amount
	<b>PART-A: CIVIL</b>					
1	Dismantling all types of masonry excepting cement concrete plain or reinforced, stacking serviceable materials at site and removing rubbish as directed within a lead of 75 m. In ground floor including roof.	180.00	Mtr	447.00	Per Mtr	80,460.00
	In 1st Floor	180.00	Mtr	497.00	Per Mtr	89,460.00
2	Cutting chase upto 125 x 150 mm. and subsequent mending of damages. (a) in brick wall [Cement-3.6 Kg/Mtr]	1000.00	Mtr	93.00	Per Mtr	93,000.00
3	Dismantling all types of plain cement concrete works, stacking serviceable materials at site and removing rubbish as directed within a lead of 75 m. (a) upto 150 mm. thick. In ground floor including roof.	10.00	Cum	939.00	Per Cum	9,390.00
	In 1st Floor	10.00	Cum	989.00	Per Cum	9,890.00
4	Dismantling R.C. floor, roof, beams etc. including cutting rods and removing rubbish as directed within a lead of 75 m. including stacking of steel bars. In ground floor including roof.	5.00	Cum	1,956.00	Per Cum	9,780.00
	In 1st Floor	5.00	Cum	2,006.00	Per Cum	10,030.00

5	Dismantling of all assorted item that includes Wall partition/False Ceiling made of Wood, Ply Board, Masonite Board, Alluminium Partition, Door/Wondow frames, Glass etc. of any thickness with frame shifting and stacking the materials as decided by SMP Kolkata within a lead of 75 Mtr. all complete.	1000.00	Sqm	35.80	Per Sqm	35,800.00
6	Taking out carefully M.S or W.I Grills / M.S framed gratings windows with shutter including cutting lugs from masonry wall with necessary labours, tools & tackles etc. all complete as per direction of EIC.	700.00	Sqm	334.00	Per Sqm	2,33,800.00
7	Stripping off worn out plaster and raking out joints of walls, celings etc. upto any height and in any floor including removing rubbish within a lead of 75m as directed.	500.00	Sqm	19.00	Per Sqm	9,500.00
8	Applying 2 coats of Non-Toxic Acrylic Polymer modified Paint having adhesive & waterproofing properties by mixing in proportion (1 liquid: 4 cementitious material) or as per manufacturer's specification for water proofing layer in water tank etc. (No Departmental Cement is required)	250.00	Sqm	258.00	Per Sqm	64,500.00
9	Polymer Modified Mortar(Brick Work): building up the profile of masonry members upto 20 mm by using emulsified SBR latex conforming to ASTM C-10592013 Type-II,I cement (OPC as per IS 8112)-3 part graded cleaned river sand (zone I sand as per IS 3832016) + 15-20 % latex by wt of cement) with .35 w/c ratio, and having 38 % solid content, in 10 - 15 mm thick layers by applying bond coat between successive/each layers including levelling & profiling complete. Proper curing shall be done for the repair work. Gunny bags may be used for effective curing. Polypropylene fibres (Recron or equivalent)shall be added to reduce shrinkage. Polypropylene	200.00	Sqm	940.00	Per Sqm	1,88,000.00

	fibres @ 1 kg/cum shall be added to achieve homogeneity in PMM mix.70.2x70.2x70.2 mm cube shall be taken as representative sample to achieve 28 days compressive strength of 30 MPa at 28 days compressive strength of 30 MPa at 28 days of curing in water. The item rate includes the rate for bond coat to be applied between layers. Bond coat shall be prepared by mixing 60 ml of Latex in 100 gms of cement.					
10	Providing and fixing/ inserting 12mm. Polytetrafluoroethylene- (Teflon) nozzles of 150mm. Length with epoxy resin based putty/ mortar (STP/BASF/SIKA/FOSROC/KRISHNA CONCHEM/ PIDILITE/ CICO as per specifications) as per approved FQP and technical specifications after drilling holes of 14mm dia in to concrete upto 40mm to 80mm depth or half the thickness of member (whichever is less) at required spacing but not exceeding the thickness of member or 300mm for grouting and subsequent cutting and removal of the same after grouting is completed.	100.00	Nos	167.19	Per Nos	16,719.00
11	Sealing of cracks /porous concrete by injection process through Teflon nipples/grouting complete as per technical specifications using brand of two component low viscosity (<350 centipoise (cps)) epoxy resin (STP/BASF/SIKA/FOSROC/KRISHNA CONCHEM/PIDILITE/CICO as per specifications ) as per approved FQP.	60.00	KG	1,208.38	Per KG	72,502.80

12	Plaster (to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints including throating, nosing and drip course, scaffolding/staging where necessary (In Ground floor ).[Excluding cost of chipping over concrete surface] (ii) With 1:4 cement mortar (b) 15 mm thick plaster	500.00	Sqm	167.00	Per Sqm	83,500.00
	In 1st Floor	500.00	Sqm	171.00	Per Sqm	85,500.00
13	Plaster (to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints including throating, nosing and drip course, scaffolding/staging where necessary (In Ground floor ).[Excluding cost of chipping over concrete surface] (ii) With 1:4 cement mortar (a) 20 mm thick plaster	200.00	Sqm	194.00	Per Sqm	38,800.00
	In 1st Floor	200.00	Sqm	198.00	Per Sqm	39,600.00
14	Plaster (to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints including throating, nosing and drip course, scaffolding/staging where necessary (In Ground floor ).[Excluding cost of chipping over concrete surface] (ii) With 1:4 cement mortar (c) 10 mm thick plaster	100.00	Sqm	133.00	Per Sqm	13,300.00
	In 1st Floor	100.00	Sqm	137.00	Per Sqm	13,700.00
15	125 mm. thick brick work with 1st class bricks in cement mortar (1:4) in Ground floor.	80.00	Sqm	736.00	Per Sqm	58,880.00
	In 1st Floor	80.00	Sqm	748.00	Per Sqm	59,840.00
16	Brick work with 1st class bricks in cement mortar (1:6) b) In superstructure, in ground floor	50.00	Cum	5,636.00	Per Cum	2,81,800.00
	In 1st Floor	50.00	Cum	5,747.00	Per Cum	2,87,350.00

17	Polymer concrete made with water resistant bonding agent of synthetic rubber emulsion as per manufacturer's specification excluding the cost of cement concrete (2.75 Kg / bag of cement)Note : Payment on volume of (1 : 1½ : 3) Concrete.	10.00	Cum	4,414.00	Per Cum	44,140.00
18	Material cost for Ordinary cement concrete (1:1:5:3) with graded stone chips (11:2 mm nominal size) of pakur variety excluding shuttering & reinforcement (this item is to be specifically executed with polymer concrete)	10.00	Cum	4,932.00	Per Cum	49,320.00
19	Ordinary Cement concrete (mix 1:2:4) with graded stone chips (6mm nominal size) excluding shuttering and reinforcement, if any, as per relevant IS codes. Pakur variety.	15.00	Cum	5,449.00	Per Cum	81,735.00
20	Ordinary cement concrete (Mix 1:1.5:3) with pakur Variety graded stone chips (20mm. Nominal size) excluding shuttering and reinforcement of any in ground floor as per relevant I.S. Codes.	5.00	Cum	6,124.34	Per Cum	30,621.70
	In 1st Floor	5.00	Cum	6,219.34	Per Cum	31,096.70
21	Reinforcement for reinforced concrete work in all sorts of structures including distribution bars, stirrups, binders etc initial straightening and removal of loose rust (if necessary), cutting to requisite length, hooking and bending to correct shape, placing in proper position and binding with 16 gauge black annealed wire at every intersection, complete as per drawing and direction. For works in foundation and upto roof of ground floor/upto 4 m. Tor steel / Mild Steel. JSW/JSPL/SHYAM/ SRMB/BMASL/ELECROSTEEL/SSL.	1.00	MT	60,150.00	Per MT	60,150.00

22	Hire and labour charges for shuttering with centering and necessary staging upto 4 m using approved stout props and thick hard wood planks of approved thickness with required bracing for concrete slabs, beams and columns, lintels curved or straight including fitting, fixing and striking out after completion of works (upto roof of ground floor). (When the height of a particular floor is more than 4 m the equivalent floor height shall be taken as 4 m and extra for works beyond the initial 4 m ht. shall be allowed under 12 (e) for every 4 m or part thereof) 25 mm to 30 mm thick wooden shuttering as per decision & direction of Engineer-In-Charge.	100.00	Sqm	335.00	Per Sqm	33,500.00
23	Providing and fixing of false ceiling at all height including proving and fixing of frame work made of special sections, power pressed from M.S. Sheet and galvanized with zinc coating of 150 gms/sqm (both side inclusive) as per IS: 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37 mm at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre , to which the ceiling section 0.5 mm thick bottom wedge of 80mm with tapered flanges of 26mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall / partition with the help of rawl plugs at 450 mm centre with 25 mm long dry wall screws @230 mm interval, including fixing of gypsum board to	2600.00	Sqm	1,159.00	Per Sqm	30,13,400.00



	ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including joining and finishing to a flush finish of tapered and square edges of the board with recommended joining compound, joining tapes, finishing with joining compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacture's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer-in-Charge but excluding the cost of painting with : (ISI Mark on Board). In Ground Floor.					
	In 1st Floor	2600.00	Sqm	1,173.00	Per Sqm	30,49,800.00
24	Supplying & laying of approved brand of scratch proof semi flexible P.V.C. blended homogeneous luxury plank wood Vinyle flooring in tiles (each size 152.4 mm x 914.4 mm), fixing with synthetic acrylic adhesive after preparing the floor, levelling & smothaning when necessary with suitable putty, as per the design & instruction of the Engineer-in-charge. All Complete.	5200.00	sqm	1,182.41	Per sqm	61,48,532.00
25	Neat cement punning about 1.5mm thick in wall, dado, window sill, floor etc. NOTE:Cement 0.152 cu.m per100 sq.m.	200.00	Sqm	34.00	Per Sqm	6,800.00
26	Rendering the surface of walls and ceiling with white cement based wall putty of approved make and brand(1.5mm thick)	7000.00	Sqm	110.00	Per Sqm	7,70,000.00
27	Applying Interior grade Acrylic Primer of approved quality and brand on plastered or concrete surface old or new surface to receive Distemper/ Acrylic emulsion paint including scraping and preparing the surface throughly, complete as per manufacturer's specification and as per direction of the EIC. (In Ground Floor).	7000.00	Sqm	3,080.00	Per %Sqm	2,15,600.00

	One Coat. Water based interior grade Acrylic Primer					
28	Applying Acrylic Emulsion Paint of approved make and brand on walls and ceiling including sand papering in intermediate coats including putty (to be done under specific instruction of Superintending Engineer). (Two coats) Standard Quality	7000.00	Sqm	62.00	Per Sqm	4,34,000.00
29	Synthetic Distemper to interior wall, ceiling with a coat of solvent based interior grade acrylic primer (as per manufacturer's specification) including cleaning and smoothening of surface. Two Coats	5200.00	Sqm	68.00	Per Sqm	3,53,600.00
30	Cleaning the walls and ceiling by scraping, sand papering and smoothening down the surface including putting.	7000.00	Sqm	17.00	Per Sqm	1,19,000.00
31	Painting with best quality synthetic enamel paint of approved make and brand including smoothening surface by sand papering etc. including using of approved putty etc. on the surface, if necessary :	100.00	Sqm	81.00	Per Sqm	8,100.00
	(i) On timber or plastered surface : With super gloss (hi-gloss) - Two coats (with any shade except white)					
	(ii) On steel or other metal surface : With super gloss (hi-gloss) - Two coats (with any shade except white)	100.00	Sqm	79.00	Per Sqm	7,900.00
32	Priming one coat on timber or plastered surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc. (This item is applicable to new work or old work when the original surface has been exposed by removal of old paint.)	100.00	Sqm	38.00	Per Sqm	3,800.00
33	Priming one coat on steel or other metal surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc. ( Item is applicable to new work or old work when the original surface has been exposed by removal of old paint.)	100.00	Sqm	29.00	Per Sqm	2,900.00

34	Supplying & placing in position OFFICE WORKSTATION of size 1.50 mtr x 1.50 mtr.x1.20 mtr. The table will be provided with one no pvc computer key board pull out tray ,one no.drawer unit (0.45x.525x.225 mtr.)The table top,sides,drawer front, sides and bottom to be made with 19 mm thick W.P.Board,12 mm thick BWP,and 6 mm thick BWR ply with laminated finished of 1 mm thick laminate of approved shade.The rate to include cost of all fittings and fixtures,the runner for drawer lock ,drawer handle, all of approved best make all complete with labour and materials as per drawing and direction of EIC.	416.00	Nos	32,095.00	Each	1,33,51,520.00
35	Partition of commercial ply as per design fitted and fixed complete (excluding the supporting framework but including necessary teak wood battens of size 40mmx 25 mm): (ii) 6mm thick. In Ground floor.	1400.00	Sqm	777.00	Per Sqm	10,87,800.00
	In 1st Floor	1400.00	Sqm	791.00	Per Sqm	11,07,400.00
36	Supplying fitting, fixing decorative lamination conforming to IS: 2046 : 1995 as per approved make, brand, finish and thickness with fitting, fixing the same on Particle/MDF / Ply Boards with recommended / approved adhesive with proper clipping the sides for better attachment as per direction of Engineer-incharge. The rate includes the cost of labour, adhesive and all incidental charges thereof. Glossy/Matt/Suede excluding surface texture or metallic lustre. (ii) Thickness of laminate 1 mm. In Ground floor.	1500.00	Sqm	688.00	Per Sqm	10,32,000.00
	In 1st Floor	1500.00	Sqm	702.00	Per Sqm	10,53,000.00

37	Wood work in posts, post plates, rafters, battens, truss members, purlins etc. fitted and fixed complete (excluding the cost of bolts, paints, but including the cost of nails, screws etc.) (The quantum should be corrected upto three decimals) (ii) Sal : Local. InGround Floor.	8.00	Cum	77,735.00	Per Cum	6,21,880.00
	In 1st Floor	8.00	Cum	77,935.00	Per Cum	6,23,480.00
38	Supplying, fitting and fixing of 8mm thick. bubble free clear, toughened glass with design approved make and brand all complete as directed.	300.00	Sqm	2,562.20	Per Sqm	7,68,660.00
39	Providing & installing POLYESTER INSULATING FILM as specified below of M/S Garware polyester or approved equivalent ) on glasses of doors / partitions including thorough cleaning of glass surfaces, scaffolding etc. with all labour & materials complete as per manufacturer's specifications & direction of the Engineer-in charge. Frosted film 1.5 mil .(25 micron)	300.00	Sqm	550.00	Per Sqm	1,65,000.00
40	Supplying solid flush type doors of commercial quality, the timber frame consisting of top and bottom rails and side styles of well seasoned timber 65mm. wide each and the entire frame fitted with 37.5mm wide battens places both ways in order to make the door of solid core and internal lipping with Garjan or similar wood veneers using phenol formaldehyde as glue etc. complete, including fitting, fixing shutters in position but excluding the cost of hinges and other fittings in ground floor. 32 mm thick shutters (single leaf).	100.00	Sqm	2,359.00	Per Sqm	2,35,900.00
	In 1st Floor	100.00	Sqm	2,373.00	Per Sqm	2,37,300.00
41	Hydraulic door closer of approved quality as per I.S.I. standard fitted and fixed complete. (a) Heavy type (I.S.I. size 3)	80.00	Nos	1,665.00	Each	1,33,200.00
42	Door stopper (Anodised aluminium)	80.00	Nos	70.00	Each	5,600.00

43	Supplying 'Godrej' mortice lock chromium plated with latch and keys 4 levers, including fitting and fixing complete.	80.00	Nos	1,081.00	Each	86,480.00
44	Iron butt hinges of approved quality fitted and fixed with steel screws, with ISI mark. 100mm. X 75mm. X 3.50mm.	240.00	Nos	66.00	Each	15,840.00
45	Anodised aluminium barrel / tower / socket bolt (full covered) of approved manufactured from extruded section conforming to I.S. 204/74 fitted and fixed with cadmium plated screws: (i)100mm long x 10mm dia. bolt.	80.00	Nos	53.00	Each	4,240.00
	(ii)150mm long x 10mm dia. bolt.	30.00	Nos	63.00	Each	1,890.00
46	Anodised aluminium D-type handle of approved quality manufactured from extruded section conforming to I.S. specification (I.S. 230/72) fitted and fixed complete: With continuous plate base (Hexagonal/ Round rod) 100 mm grip x 12 mm dia rod.	80.00	Nos	85.00	Each	6,800.00
47	Supplying, fitting & fixing of 2-Track / 3-Track Aluminium sliding Window of all Aluminium sections viz. window frame (top, bottom & side frame), shutter (top, bottom, side & interlock member) made of aluminium alloy extrusions conforming to IS 733-1983 & IS 1285-1975, anodised conforming to IS 1868-1983, fitted with all other accessories viz. PVC roller, EPDM gasket, maruti lock, screws etc. including labour charges for fitting & fixing of aluminium 2-track/3-track sliding window with fixing of glass (excluding cost of glass) all complete as per architectural drawings and direction of Engineer-in-charge. 10-12 Micron thickness Anodizing film Natural white. For 2-Track window : Members for Bottom frame @ 0.875 Kg per Mtr. and for Top and Side frame @ 0.778 Kg per Mtr. and for shutter Bottom and Top member @ 0.472 Kg per Mtr., Style side member @ 0.493 Kg per Mtr. and Interlock member @ 0.612 Kg per Mtr.	1700.00	Kg	448.00	Per Kg	7,61,600.00

48	Supplying bubble free float glass of approved make and brand conforming to IS: 2835-1987. 4mm thick coloured / tinted / smoke glass.	300.00	Sqm	468.00	Per Sqm	1,40,400.00
49	Supplying and affixing optically clear polyester sun control window film having acrylic pressure sensitive adhesive on one side & an acrylic abrasion resistant coating on the other, with composition of infrared absorbing carbon & free from any optical defect. The film characteristics should conform to ASTM E308, ASTM E903, ASTM E84 and ASHIRAE. The film should be pasted after preparatory works without any cracking, delamination, bubbling, discolouring and variation in total transmission of light across the width at any portion along the length doesn't exceed 2% over the average including scaffolding & relevant others to complete in all respect as per manufacturer's specification & direction of Engineer -in-Charge. (Note: This work should not be executed without specific permission of Superintending Engineer. <b>Superior Quality</b> : Film Thickness - 2.0 Mil, Glare Reduction > 75%, U factor < 1.03, Emissivity < 0.70	300.00	Sqm	544.00	Per Sqm	1,63,200.00
50	Supplying profiles of required section made of Aluminium Alloy Extrusions conforming to IS: 732-1983 and IS: 1285- 1975; Anodized (with required film thickness and specified colour / natural) matt finished conforming to IS: 1868-1983 for fabrication of composit door, sliding & casement windows, partitions, formed of basic sections of any ISI embossed / certified make and brand as per direction of Engineer - In Charge. (Payment will be made on finished length of the work). (A) In 10-	60.00	Metre	183.00	Per Metre	10,980.00

	12 Micron thickness Annodizing film I) Natural white. <b>Louvered window.</b> (i) Top, bottom and side member.					
(ii)	Louvered Section.	60.00	Metre	658.00	Per Metre	39,480.00
(iii)	Cleat angle ( Non-annodized).	60.00	Metre	263.00	Per Metre	15,780.00
51	Labour charge for fabrication and installation of composite door, window, partitions made from annodized extruded alloy aluminium sections for the following units:- (A) Glazed aluminium sliding windows made of extruded and annodized alloy aluminium sections, fabrications, including cutting to proper shape and size, drilling and aligning of window shutter frame fitted with in built locking arrangements, sliding rollers and other necessary fittings, fixture, adhesives and joineries along with extruded neoprine or EPDM gasketing in between window frame and masonry work (walls, column, beam.lintels etc.) as well as between glass and shutter frame for fixing glass and Polysulphide sealant and in between shutter and window frame where necessary including cutting to requisite size and fixing glass as per drawing, specification and direction of EIC. The rate includes the hire charge of all tools and plants, including all incidental charges, adhesive, joineries such as screw, cleat angle etc. but excluding the cost of extruded aluminium sections, glass, neoprene / EPDM gasket, locking arrangement and rollers. Louvered window.	15.00	Sqm	730.00	Per Sqm	10,950.00

52	Collapsible gate with 40mm x 40mm x 6mm Tee as top and bottom guide rail, 20mm x 10mm x 2mm vertical channels 100mm apart in fully stretched position 20mm x 5mm M.S. flats as collapsible bracings properly rivetted and washered including 38mm steel rollers including locking arrangements, fitted and fixed in position with lugs set in cement concrete and including cutting necessary holes, chasing etc. in walls, floors etc. and making good damages complete. In Ground floor.	12.00	Sqm	4,330.00	Per Sqm	51,960.00
	In 1st Floor	12.00	Sqm	4,373.30	Per Sqm	52,479.60
53	Supplying, fitting and fixing fibre reinforced polymer (FRP) Composite door frame as per approved section with glass fibre reinforced plastic moulded skins and a special sandwich core, so as to impart monolitaheic composite structure as per approved technology of Department of Science and Technology (DST) to safisfy IS: 4020 door testing performance criteria. 66mm x 70mm	90.00	Mtr	446.00	Per Mtr	40,140.00
54	Supplying, fitting & fixing fibre reinforced polymer (FRP) Composite door shutters as per approved design with glass fibre reinforced plastic moulded skins and a special sandwich core, so as to impart monolitaheic composite structure as per approved technology of Department of Science and Technology (DST) to satisfy IS:4020 door testing performance criteria. In Ground floor. 32 mm thick	20.00	Sqm	2,763.00	Per Sqm	55,260.00
	In 1st Floor	20.00	Sqm	2,777.00	Per Sqm	55,540.00



55	Supplying, fitting and fixing boiling water proof block board conforming to IS:1659-1990 conforming to IS:848-1974 of approved make and brand, fitted and fixed as per design as per direction of Engineer-in-charge. [Excluding the cost of supporting frame work and teak wood batten/Lipping]. In Ground Floor .19mm.	20.00	Sqm	1,827.00	Per Sqm	36,540.00
	In 1st Floor	20.00	Sqm	1,841.00	Per Sqm	36,820.00
56	Supplying, fitting and fixing boiling water proof ply conforming to IS: 710-1977 bonded with phenol formaldehyde synthetic resin conforming to IS: 848-1974 of approved make and brand fitted and fixed as per design as per approval and direction of Engineer-in-Charge. [excluding the cost of supporting frame work and teak wood batten/Lipping] In Ground Floor.12mm	20.00	Sqm	1,709.00	Per Sqm	34,180.00
	In 1st Floor	20.00	Sqm	1,723.00	Per Sqm	34,460.00
57	Supplying wooden moulding slanting beat of size 37mm X 18mm (finished) of approved design to finish the joint between wooden frame of door/window with masonry in true line and level fitted & fixed with adhesive and head less pins complete as per direction of Engineer -in-charge. a) Teak wood beat	100.00	mtr	109.00	Per mtr	10,900.00
58	Supplying, fitting & fixing Stainless Steel 'D' or 'H' type of size 300 mm x 19 mm tubular Handle with Grade 304, CE certified, marked & conforming to EN - 1154, of approved quality of reputed brand as per direction of Engineer-in-Charge fitted and fixed complete including all incidental charges.	10.00	Each	1,571.00	Per Each	15,710.00

59	Supplying, fitting & fixing 1st quality Ceramic tiles in walls and floors to match with the existing work & 4 nos. of key stones (10mm) fixed with araldite at the back of each tile & finishing the joints with white cement mixed with colouring oxide if required to match the colour of tiles including roughening of concrete surface, if necessary or by synthetic adhesive & grout materials etc. Floor: With Sand Cement Mortar (1:4) 20 mm thick & 2 mm thick cement slurry at back side of tiles using cement @ 2.91 Kg/Sq.m & joint filling using white cement slurry @ 0.20kg/Sq.m. (a) Area of each tile above 0.09 Sq.m (i) Coloured decorative in Ground Floor.	100.00	Sqm	920.00	Per Sqm	92,000.00
	In 1st Floor.	100.00	Sqm	925.00	Per Sqm	92,500.00
	Wall: With Sand Cement Mortar (1:3) 15 mm thick & 2 mm thick cement slurry at back side of tiles using cement @ 2.91 Kg/Sq.m & joint filling using white cement slurry @ 0.20kg/Sq.m. Area of each tile above 0.09 Sq.m (i) Coloured decorative in Ground Floor	300.00	Sqm	1,109.00	Per Sqm	3,32,700.00
	In 1st Floor	300.00	Sqm	1,114.00	Per Sqm	3,34,200.00
60	Supplying, fitting and fixing Black Stone slab used in Kitchen slab, alcove, wardrobe etc. laid and jointed with necessary adhesive Cement mortar (1:2) including grinding or polishing as per direction of Engineer-in -Charge in ground Floor. Slab Thickness above 25 mm and upto 37.5 mm.	15.00	Sqm	713.00	Per Sqm	10,695.00
	In 1st Floor	15.00	Sqm	725.00	Per Sqm	10,875.00

61	Supplying,fitting & fixing granite slab 15mm to 18mm thick in floor, lobby, stair, landing and treads etc. over 20mm (avg) thick base of cement mortar (1:2) laid with white cement slurry @ 4.40Kg per Square meter before placing of granite and jointed with white cement slurry @ 2.0 Kg per square meter with necessary pigments and complete as per direction of Engineer-in-charge including cost of all materials, labours, curing and roughening of concrete surface complete. In Ground floor. Area of each Granite slab above 1.00 Square meter.	30.00	Sqm	3,021.00	Per Sqm	90,630.00
	In 1st Floor	30.00	Sqm	3,033.00	Per Sqm	90,990.00
62	Removal of rubbish,earth etc. from the working site and disposal of the same beyond the compound, in conformity with the Municipal / Corporation Rules for such disposal, loading into truck and cleaning the site in all respect as per direction of Engineer in charge	300.00	Cum	166.00	Per Cum	49,800.00
63	Transportation charges that may include carriage of M.S. materials, assorted wood, structural items, asbestos sheet and other miscellaneous materials for a distance 5km -10 Km within Kolkata City during daytime (8 AM- 5 PM) using Medium size Lorry.	50.00	Trip	1,490.00	Per Trip	74,500.00
64	Providing & supplying unskilled labour for miscellaneous cleaning works. Normal time of work 8 A.M - 5 P.M including one hour recess.	500.00	Head	816.96	Per Head	4,08,480.00
65	Supply of various miscellaneous items for shifting operation like Cartoon Boxes, Tape, Plastic Rope , Small Trolley, Bubble paper and other Packaging materials. Payment would be done on the basis of actual bill submitted to this office.	1.00	LS	60,000.00	LS	60,000.00

66	Supply and Installation (With Lifting Charges upto 6th Floor) of BESCO TITAN 12 BOXUP CUBICAL (Cubical size,Width 1350 -1500 mm,Length-1150-1500 mm and height-2100 mm),1950 mm height divider(length-1150 mm - 1500 mm),made by 12 mm thick compact pilaster board along with accessories standard Merino make stainless steel-304 grade(Such as SS U,F channel,SS Door stoper Channel,SS Top Rail,SS Coat Hook,SS Privacy thumb turn C/w occupancy indicator,SS Door Knob,SS Spring Loaded Butt Hinges With cover,SS Shoe Box Leg 12mm-316 Grade,Rubber Lining for Door stoper,SS Screws 304 G & P.V.C Wall Plugs etc in all complete.	24.00	Nos	38,610.00	Each	9,26,640.00
67	Supplying, fitting and fixing E.W.C. in white glazed vitreous chinaware of approved make complete in position with necessary bolts, nuts etc. (a) With 'P' trap	24.00	Nos	1,421.00	Each	34,104.00
68	Supplying, fitting and fixing 10 litre P.V.C. low-down cistern conforming to I.S. specification with P.V.C. fittings complete, C.I. brackets including two coats of painting to bracket etc.	24.00	NOS	1,015.00	Each	24,360.00
69	Hand Shower(Health Faucet) with 1mtr Flexible Tube with Wall Hook(Equivalent to Code No.573 & Model -ALLIED of Jaquar or similar).	24.00	Nos	1,251.00	Each	30,024.00
70	Supplying, fitting and fixing Closet seat of approved make with lid and C.P. hinges, rubber buffer and brass screws complete. (a) E.W.C. (ii) Plastic (hallow type) white	24.00	Nos	380.00	Each	9,120.00
71	Supplying,fitting and fixing approved brand P.V.C. CONNECTOR white flexible, with both ends coupling with heavy brass C.P. nut, 15 mm dia. (iv) 750 mm long	24.00	Nos	117.00	Each	2,808.00
	(iii) 600 mm long	22.00	Nos	107.00	Each	2,354.00

72	Supplying, fitting and fixing 32 mm dia. Flush Pipe of approved make with necessary fixing materials and clamps complete. i) Polythene Flush Pipe	24.00	Nos	155.00	Each	3,720.00
73	Supplying, fitting and fixing porcelain toilet paper holder of approved make with wooden spindle as necessary. (i) Roll type size 250 mm X 125 mm	24.00	Nos	293.00	Each	7,032.00
74	Supplying, fitting and fixing white vitreous china best quality approved make Counter wash basin with C.I. brackets on 75 mm X 75 mm wooden blocks, C.P. waste fittings of 32 mm dia., one approved quality brass C.P. pillar cock of 15 mm dia., C.P. chain with rubber plug of 30 mm dia., approved quality P.V.C. waste pipe with C.P. nut 32 mm dia., 900 mm long approved quality P.V.C. connection pipe with heavy brass C.P. nut including mending good all damages (i) Size 570 mm x 450 mm	20.00	Nos	7,170.45	Each	1,43,409.00
75	Supplying, fitting and fixing full set of special needs cruse set from CERA or equivalent approved best make consisting of one each of EWC of size 710x370x770mm, one piece EWC S trap 300mm, soft close seat cover, Crane half pedastal, Clinical single level basin mixer, Wall mounted hinged hand rail 750x100 (01 no) with necessary bolts, nuts & other relevant accessories etc. All complete as per direction of Engineer in Charge.	2.00	Nos	47,444.00	Each	94,888.00
76	Supplying, fitting and fixing Flat back urinal (half stall urinal) in white vitreous chinaware of approved make in position with brass screws on 75 mm X 75 mm X 75 mm wooden blocks complete.	22.00	Nos	945.00	Each	20,790.00

	470 mm X 280 mm X 340 mm.					
77	Supplying, fitting and fixing porcelain partition wall of approved make of size 618 mm X 310 mm complete in all respect.	22.00	Nos	1,132.00	Each	24,904.00
78	Supplying, fitting and fixing bevelled edged mirror 5.5 mm thick silver red as per I.S. 3438 / 1965 together with brass C.P. hinges. (ii) 600 mm X 450 mm	20.00	Nos	484.00	Each	9,680.00
79	Supplying, fitting and fixing liquid soap container. (b) PTMT(Prayag or equivalent)	14.00	Nos	210.00	Each	2,940.00
80	Supplying, fitting and fixing approved brand 32 mm dia.P.V.C. waste pipe, with PVC coupling at one end fitted with necessary clamps. (iii) 900 mm long	22.00	Nos	75.00	Each	1,650.00
81	Chromium plated angular Stop Cock with wall flange (Equivalent to Code No. 5053 & Model - Florentine of Jaquar or similar brand).	70.00	Nos	815.00	Each	57,050.00
82	Chromium plated Concealed Stop Cock (Equivalent to Code No. 514(A) & Model - Tropical / Sumthing Special of ESSCO or similar brand).	24.00	Nos	674.00	Each	16,176.00
83	CP 2-way bib Cock - 15 mm, supplied, fitted and fixed. (Code No.5041 & Model - FLORENTINE of JAQUAR or similar brand).	24.00	Nos	1,269.00	Each	30,456.00

84	Supplying, fitting and fixing PVC pipes of approved make of Schedule 80 (medium duty) conforming to ASTM D - 1785 and threaded to match with GI Pipes as per IS : 1239 (Part - I). with all necessary accessories, specials viz. socket, bend, tee, union, cross, elbo, nipple, long screw, reducing socket, reducing tee, short piece etc. fitted with holder bats clamps, including cutting pipes, making threads, fitting, fixing etc. complete in all respect including cost of all necessary fittings as required, jointing materials and two coats of painting with approved paint in any position above ground. (Payment will be made on the centre line measurements of total pipe line including all specials. No separate payment will be made for accessories, specials. Payment for painting will be made separately) (a) For Exposed Work PVC Pipes (Dia) (i) 15 mm	50.00	mtr	101.00	Per mtr	5,050.00
	ii) 20 mm	50.00	mtr	129.00	Per mtr	6,450.00
	iii) 40 mm	60.00	mtr	292.00	Per mtr	17,520.00
85	Supplying, fitting and fixing CPVC (Chlorinated Polyvinyl Chloride) pipes of approved make conforming to IS-15778: 2007 . with all necessary accessories, specials viz. socket, bend, tee, union, cross, elbo, nipple, long screw, reducing socket, reducing tee, short piece etc. fitted with holder bats clamps, including cutting pipes, fitting, fixing etc. complete in all respect including cost of all necessary fittings as required, jointing materials in any position above	100.00	mtr	140.00	Per mtr	14,000.00

	ground. (Payment will be made on the centre line measurements of total pipe line including all specials. No separate payment will be made for accessories, specials. For Concealed Work (i) CPVC Pipes Class-1,SDR-11. <b>15mm</b>					
	20mm	80.00	mtr	171.00	Per mtr	13,680.00
86	Supply of UPVC pipes (B Type) & fittings conforming to IS-13592-1992 (A) (i) Single Socketed 3 Meter Length, 110 mm	100.00	Mtr	292.00	Per mtr	29,200.00
87	Labour for fitting and fixing U.P.V.C. pipes for above ground work including cost of jointing materials etc. fitting and fixing all necessary specials, cutting pipes, cutting holes in walls or R.C. floor where necessary and mending good all damages excluding the cost of masonry or concrete work, if necessary, but including the cost and fitting and fixing holder bat clamps (any floor) or for underground work including cutting trenches upto 1.5 metre and refilling the same complete as per direction of the Engineer-in-charge. (Payment will be made on centre line measurement of the total pipeline including specials. (A) Above ground .110 mm dia.	100.00	Mtr	57.00	Per mtr	5,700.00
88	Supplying, fitting and fixing Peet's valve fullway gunmetal standard pattern best quality of approved brand bearing I.S.I. marking with fittings (tested to 21 kg per sq. cm.). 25 mm dia	5.00	Nos	912.00	Each	4,560.00
	20mm dia	5.00	Nos	657.00	Each	3,285.00



	15mm dia	5.00	Nos	521.00	Each	2,605.00
89	Supply of UPVC pipes (B Type) & fittings conforming to IS-13592-1992	30.00	Nos	239.00	Each	7,170.00
	(i)Cross Tee with Door					
	(ii)Bend 87.5° 110 mm	30.00	Nos	120.00	Each	3,600.00
	(iii)Plain Tee 110 mm	30.00	Nos	85.00	Each	2,550.00
90	Supplying, fitting and fixing C.I. round grating.	35.00	Nos	62.00	Each	2,170.00
	(i) 100 mm					
91	Supplying & placing in position storage unit of size 1.500 mtr x 0.520 mtr x 1.240 mtr made with 19mm thick W.P. Board, 12mm thick BWP, and 6mm thick BWR ply with laminated finished of 1mm thick laminate of approved shade. The rate to include cost of all fittings and fixtures, lock, handle, all of approved best make all complete with labour and materials as per drawing and direction of EIC	180.00	Nos	30,794.79	Each	55,43,062.20
92	Supplying & placing in position storage unit of size 0.920 mtr x 0.520 mtr x 0.750 mtr made with 19mm thick W.P. Board, 12mm thick BWP, and 6mm thick BWR ply with laminated finished of 1mm thick laminate of approved shade. The rate to include cost of all fittings and fixtures, lock, handle, all of approved best make all complete with labour and materials as per drawing and direction of EIC	60.00	Nos	11,851.71	Each	7,11,102.60

93	Supplying & placing in position Executive Desk of size 1.8 mtr x 1 mtr.x 0.75mtr.The table will be provided withone no pvc computer key board pull out tray ,one no.drawer unit (0.825 x 0.46 x 0.8Mtr).The table top,sides,drawer front, sides and bottom to be made with 19 mm thick W.P.Board,12 mm thick BWP,and 6 mm thick BWR ply with laminated finished of 1mm thick laminate of approved shade.The rate to include cost of all fittings and fixtures,the runner for drawer lock ,drawer handle, all of approved best make all complete with labour and materials as per drawing and direction of EIC.	60.00	Nos	30,000.00	Each	18,00,000.00
94	Supply of motion high back chair with adjustable armrest of Godrej make .	60.00	Nos	11,746.02	Each	7,04,761.20
95	Supply of Sally Mid back chair with adjustable armrest of Godrej make .	600.00	Nos	6,204.90	Each	37,22,940.00
96	Supplying & placing in position Conference Table of size3.2 mtr x 1.2 mtr.x 0.75mtr.The table top,sides,drawer front, sides and bottom to be made with 19 mm thick W.P.Board,12 mm thick BWP,and 6 mm thick BWR ply with laminated finished of 1mm thick laminate of approved shade.The rate to include cost of all fittings and fixtures,the runner for drawer lock ,drawer handle, all of approved best make all complete with labour and materials as per drawing and direction of EIC.	4.00	Nos	42,000.00	Each	1,68,000.00
				Total Civil		Rs.5,43,10,347.80

Part-B(I) Internal Electrical & Illumination Part					
Sl No	Description of item	Qty	Unit	Unit rate (in Rs)	Total Value (in Rs)
	<p><b>Floor Panel:</b> Supply &amp; delivery of TTA LT floor panel suitable for 415 V, 3 Phase, 4 Wire 50 Hz AC supply system from CRCA sheet steel of 2 mm thick for frame work and covers, 3 mm thick for gland plates incl. cleaning &amp; finishing complete with powder coating in approved shade, having 60mmx5mm capacity TPN electrolytic grade tinned Copper Main bus bars &amp; equivalent size connecting Busbars for incomers &amp; floor interconnectors, SMC/DMC bus bar supports, with short circuit withstand capacity of 50kA for 1 Sec, having provision for wall mounting &amp; also provision for suitable hight MS stand (not less than 60 cm), incl. painting, for mounting on the floor with copper earth bar of size 25 mm x 5 mm with 2 Nos. earth stud, solid connections from main bus bar to switch gears with required size of Cu. bus bars and control wiring, indication etc. with 2.5 sq. mm. FRLS PVC insulated copper conductor, cable gland plates in two half &amp; providing following switch gears:</p>				
1	<p>I) Incomer: 1 No. 415V, 35kA/36kA, 4P, 400A MCCB with Adjustable Overload &amp; Adjustable shortcircuit, Ics=Icu=100% with Microprocessor based release with in-built display and power supply module having following current rating:            i) Adjustable Overload 0.4 to 1.0 In,            ii) Adjustable Short Circuit Protection 1.5 to 10 In,            iii) Instantaneous protection            iv) Ground fault protection 0.2 to 1 In having 8kv Impulse voltage, Ics=Icu=100%. All other details as per Technical specification.</p> <p>II) Floor Interconnection: 2 No. 415V, 35kA/36kA, 4P, 400A MCCB with Adjustable Overload &amp; Adjustable shortcircuit, Ics=Icu=100% with Microprocessor based release with in-built display and power supply module having following current rating:            i) Adjustable Overload 0.4 to 1.0 In,            ii) Adjustable Short Circuit Protection 1.5 to 10 In,            iii) Instantaneous protection            iv) Ground fault protection 0.2 to 1 In having 8kv Impulse voltage, Ics=Icu=100%. All other details as per Technical specification.</p> <p>MCCBs should have spreader terminals with extended rotary handle and phase barriers. Also each 4P incoming feeder should have Digital Ammeter, Digital Voltmeter along with selector switch, Rasin Cast CTs, MFM with display of VLL, VLN, A, Hz, W, PF, VA with auto scaling capability, RYB Phase indication lamps etc. Any other parts required to complete in all respet.</p>	2	No.	5,63,011.00	11,26,022.00

	<p><b>Outgoing-A:</b> 4 No. 415V, 35kA/36kA, 4P, 160A MCCB with Adjustable Overload &amp; Adjustable shortcircuit, Ics=Icu=100% with Microprocessor based release with in-built display and power supply module having following current rating:  i) Adjustable Overload 0.4 to 1.0 In,  ii) Adjustable Short Circuit Protection 1.5 to 10 In,  iii) Instantaneous protection  iv) Ground fault protection 0.2 to 1 In having 8kv Impulse voltage, Ics=Icu=100%. All other details as per Technical specification.</p> <p>MCCBs should have spreader terminals with extended rotary handle and phase barriers. Also each 4P outgoing feeder should have Digital Voltmeter, Digital Ammeter along with selector switch, resin cast CTs, RYB Phase indication lamps etc. Any other parts required to complete in all respect.</p>				
	<p><b>Outgoing-B:</b> 2 No. 415V, 35kA/36kA, 4P, 100A MCCB with Adjustable Overload &amp; Adjustable shortcircuit, Ics=Icu=100% with Microprocessor based release with in-built display and power supply module having following current rating: i) Adjustable Overload 0.4 to 1.0 In,ii) Adjustable Short Circuit Protection 1.5 to 10 In,iii) Instantaneous protectioniv) Ground fault protection 0.2 to 1 In having 8kv Impulse voltage, Ics=Icu=100%. All other details as per Technical specification.MCCBs should have spreader terminals with extended rotary handle and phase barriers. Also each 4P outgoing feeder should have Digital Voltmeter, Digital Ammeter along with selector switch, resin cast CTs, RYB Phase indication lamps etc. Any other parts required to complete in all respect.</p>				
2	<p>Installation, testing &amp; commissioning of the above LT Floor Panel along with double earthing arrangement. The Panel shall be installed on wall with suitable angle iron frame &amp; on floor with foundation bolts. The cables to be tightened with cable glands through gland plates fitted under the panel. Adequate support system and fixtures to be given for mechanical strength by suitable arrangements and should be connected to the earth system with the help of spring washers, thimbles etc. to secure from contact. All the incomer &amp; outgoing feeders, bus bar chambers etc. must be suitably marked (as instructed) which should have proper durability. Suitable size danger plate should also be installed.</p>	2	No.	56,301.00	1,12,602.00

3	Supply and delivery of 1.1 KV grade 3.5 core 120 sq.mm. XLPE insulated armoured Aluminum cable comply to IS:7908(Part-1)/1988 or latest amendment if any from <b>A) Main Panel to Floor Panels at Ground &amp; First Floor and in between Floor Panels (Double Run)</b> <b>B) Floor Panels to VTPN DBs (Single Run)</b>	600	Mtr	1,031.00	6,18,600.00
4	Laying of above cable at an existing trench and/or on wall incld. S & F of GI Clamps/ on cable tray with earthing attachment in 2 x 10 SWG GI Hot Dip wire, making hole etc. as necy., mending good damages and painting.	600	RM	162.00	97,200.00
5	Supplying and fixing compression type gland complete with brass gland, brass ring & rubber ring for dust and moisture proof entry of above XLPE cable	30	Each	162.00	4,860.00
6	Finishing of XLPE cable ends by crimping method incl. supplying and fixing solderless sockets (Dowels make), tapes, anticorrosive paste and jointing material for above cable	30	SET	115.00	3,450.00
7	Supply and delivery of 1.1 KV grade 3.5 core 35 sq.mm. XLPE insulated armoured Aluminium cable comply to IS:7908(Part-1)/1988 or latest amendment if any from <b>VTPN DBs to HTPN DBs.</b>	1500	Mtr.	371.00	5,56,500.00
8	Laying of above cable on wall/surface/above false ceiling/on cable tray incl. S & F MS saddles with earthing attachment in 2x10 SWG GI (Hot Dip)Wire, making holes etc. as necy.mending good damages and painting.	1300	RM	71.00	92,300.00
9	Laying of above cable at an average depth of 75 mm below with earthing attachment in 10 SWG GI (Hot Dip)Wire, after cutting floor/pavement/wall/ and making holes incl., embedding the cable and mending good the damages to original finish incl.removing the rubbish	200	RM	127.00	25,400.00
10	Supplying and fixing compression type gland complete with brass gland, brass ring & rubber ring for dust and moisture proof entry of above XLPE cable	60	Each	162.00	9,720.00
12	Finishing of XLPE cable ends by crimping method incl. supplying and fixing solder less sockets (Dowels make), tapes, anticorrosive paste and jointing material for above cable.	60	SET	158.00	9,480.00
13	Supplying and installing following size perforated Hot Dipped Galvanized Iron Cable Tray (Galvanization thickness not less than 50microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, GI angle iron support etc. as required complete in all respect.				

13a.	300 mm width X 50 mm width X 1.6 mm thickness	200	RM	845.00	1,69,000.00
13b.	150 mm width X 50 mm width X 1.6 mm thickness	1300	RM	628.00	8,16,400.00
14	Supplying and installing following size perforated Hot Dipped Galvanized Iron Cable Tray "Bends" (Galvanization thickness not less than 50microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts etc. as required complete in all respect.				
14a.	300 mm width X 50 mm width X 1.6 mm thickness	6	Each	1,624.00	9,744.00
14b.	150 mm width X 50 mm width X 1.6 mm thickness	20	Each	1,113.00	22,260.00
15	Supplying and installing following size perforated Hot Dipped Galvanised Iron Cable Tray "Tee" (Galvanisation thickness not less than 50microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts etc. as required complete in all respect.				
15a.	300 mm width X 50 mm width X 1.6 mm thickness	4	Each	1,890.00	7,560.00
15b.	150 mm width X 50 mm width X 1.6 mm thickness	8	Each	1,213.00	9,704.00
16	Supplying and installing following size perforated Hot Dipped Galvanized Iron Cable Tray "Cross Member" (Galvanization thickness not less than 50microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts etc. as required complete in all respect.				
16a.	300 mm width X 50 mm width X 1.6 mm thickness	2	Each	2,074.00	4,148.00
16b.	150 mm width X 50 mm width X 1.6 mm thickness	4	Each	1,213.00	4,852.00
17	Supply and Fixing of double door <b>Vertical TPN MCCB Main Distribution Board (8way)</b> with IP-42/43 protection, Copper BusBar for each phase, 2 Neutral bar, 2 Earthbar along with IP 43 Cable End Box to be mounted on top or bottom and S & F of 160A, FP 415V, 36kA Adjustable thermal and Adjustable magnetic setting MCCB as Incomer and 8 nos. 63 Amp, 415 volt, TP, 10KA, C-type MCB as outgoing, Concealed in wall after cutting the wall & mending good the damages to original finish incl. interconnection with suitable size of copper wire , extended terminals/spreader link sets and neutral link & provision for earthing attachment. <b>(VTPN DB 2 for Power, 1 For AC, 1 for Lighting for each floor)</b>	8	No.	39,146.00	3,13,168.00

18	Supplying and Fixing double door Horizontal TPN MCB PPI DB[Enclosure 6 way, 8+6+18 modules] with IP-42/43 protection, Copper BusBar for each phase along with 63A, FP 415V, 25KA, C-type Adjustable thermal and Fixed magnetic setting MCCB as Incomer, 3 Nos. 40A(100mA) DP RCCB as Sub Incomer and 18 nos. 20 amp, 240 volt, SP 10KA, C-type MCB as outgoing concealed in wall after cutting the wall & mending good the damages to original finish incl. interconnection with suitable size of copper wire, extended terminals/spreader link sets and neutral link & provision for earthing attachment(For Lighting 7 nos./floor ).	14	No.	17,968.00	2,51,552.00
19	Supplying and Fixing double door Horizontal TPN MCB PPI DB[Enclosure 6 way, 8+6+18 modules] with IP-42/43 protection, Copper BusBar for each phase along with 63A, FP 415V, 25KA, C-type Adjustable thermal and Fixed magnetic setting MCCB as Incomer, 3 Nos. 40A(100mA) DP RCCB as Sub Incomer and 36 nos. 20 amp, 240 volt, SP 10KA, C-type MCB as outgoing, concealed in wall after cutting the wall & mending good the damages to original finish incl. interconnection with suitable size of copper wire, extended terminals/spreader link sets and neutral link & provision for earthing attachment(For Power including Compute and AC : 12 nos./floor: Tentative distribution For Power-8 nos., For AC IDU-4 Nos.).	24	No.	20,690.00	4,96,560.00
20	Supply & fixing suitable dia G.I pipe (ISI medium) for necessary cable protection in between floors, through wall etc.	20	Mtr	294.00	5,880.00
21	Supply & Fixing of Pre-Galvanized Raceway of thickness 1.6 mm consisting of body & cover under floor tile/marbel, after chipping of floor as per requirement including Supply & Laying GI wire through raceway, of following size for laying of cable and/or wire with PVC Rigid conduit from HTPN to end electrical points, along with earthing of each unit with PVC FRLS copper wire(incl. S & F)				
	i) One set of 225mm (W) x 25mm (W) x 2.44 meter (L)(Min Dimension) x not more than 3 compartment with coupler for joining raceways, fixing brackets, leveling accessories and other accessories complete in all respect.	205	Set	4,822.00	9,88,510.00
	ii) One set of 150mm (W) x 25mm (W) x 2.44 meter (L)(Min Dimension) x 1 compartment with coupler for joining raceways, fixing brackets, leveling accessories and other accessories complete in all respect.	20	Set	3,155.00	63,100.00

	iii) One set of 100mm (W) x 25mm (W) x 2.44 meter (L)Min Dimension) x 1 compartment with coupler for joining raceways, fixing brackets, leveling accessories and other accessories complete in all respect.	178	Set	2,363.00	4,20,614.00
22	Supply and fixing of follwing size Pre-galvanized vertical rise of thickness 1.6mm flushed in wall after cutting of wall, complete in all respect, for cable/wire entry from concealed position in wall.				
	i) For 225 mm width raceway	24	No.	1,550.00	37,200.00
23	Supply and fixing of following size Pre-galvanized hight adjustable junction box (50-70mm) of thickness 1.6mm with base, lid, flyover, site cover etc. on floor, after chipping of floor as per requirement, so that top matches with true floor level. Site cover to be removed after Civil flooring work.				
	i) 300 mm x 300 mm x 50-70 mm	80	No.	2,587.00	2,06,960.00
24	Supply & Fixing of aluminum adaptable trunking system of 100 mm (W) x 50 mm (D) or equivalent body with suitable width rigid cover, cover joint, base joint, separation partition as &where required, end cap, internal/external angle, flat angles, clips, earth link, base for cable ties etc. complete in all respect <b>(for cabins)</b>	70	meter	15,712.00	10,99,840.00
25	Supply & Fixing of modular system with 2 nos. 6A 6 Pin modular plug socket & 1 no. 6/16A 6 Pin or 3 pin combined modular plug socket with modular switch, 1 No. Double USB Charger 3000mA 2 module type A & type C, complete in all respect, on the aforesaid adaptable trunking nearest to users' access including cover and accessories complete in all respect (Computer point for cabin)	66	set	3,619.00	2,38,854.00
26	Distribution wiring from <b>Power HTPN DB to AC &amp; 15/5A 5Pin plug point and Computer Plug set</b> with 1.1KV grade single core stranded FRLS, PVC insulated and unsheathed 2x56/0.3(4sq.mm)+1x36/0.3(2.5sq mm) ECC, copper wire in suitable size of PVC rigid conduit pipe(incl. S & F of PVC rigid conduit) embedded in wall/ceiling, duly concealed incl. necessary fittings as required and mending good damages.	840	RM	182.00	1,52,880.00



27	Distribution wiring from <b>Power HTPN DB to AC &amp; 15/5A 5Pin plug point and Computer Plug set</b> with 1.1KV grade single core stranded FRLS, PVC insulated and unsheathed 2x56/0.3(4sq.mm)+1x36/0.3(2.5sq mm) ECC, copper wire in suitable size of through pre-laid raceway in floor, duly concealed incl. necessary fittings as required and mending good damages.	4656	RM	95.00	4,42,320.00
28	Distribution wiring from <b>Power HTPN DB to AC &amp; 15/5A 5Pin plug point and Computer Plug set</b> with 1.1KV grade single core stranded FRLS, PVC insulated and unsheathed 2x56/0.3(4sq.mm)+1x36/0.3(2.5sq mm) as ECC, copper wire in suitable size of PVC rigid conduit pipe (incl. S & F of PVC rigid conduit) above false ceiling incl. necessary fittings, GI Binding wire etc. as required, complete in all respect and mending good damages.	392	RM	95.00	37,240.00
29	Distribution wiring to <b>Switch board</b> in 1.1KV single core stranded 'FRLS' PVC insulated & unsheathed copper wire of size 2x36/0.3 (2.5 sq.mm. ) + 1x22/0.3(1.5 sq.mm.) as ECC single in suitable size and PVC rigid conduit pipe (incl. S & F of PVC rigid conduit) embedded in wall/ceiling/floor duly concealed after cutting, incl. necessary fittings as required. For laying through pre-laid Raceway flexible PVC pipe may be used.	960	RM	162.00	1,55,520.00
30	Distribution wiring to <b>Switch board</b> in 1.1KV single core stranded 'FRLS' PVC insulated & unsheathed copper wire of size 2x36/0.3 (2.5 sq.mm. ) + 1x22/0.3(1.5 sq.mm.) as ECC single in suitable size and PVC rigid conduit pipe (incl. S & F of PVC rigid conduit) above false ceiling incl. necessary fittings, GI Binding wire etc. as required, complete in all respect and mending good damages.	1200	RM	114.00	1,36,800.00
31	Supply & Fixing 240 V, 6 A, 3 pin Modular type plug socket with 6A Modular switch, without plug top on GI Modular type switch board (S & F) embedded in wall with Module top cover plate incl. S&F of switch board, cover plate, complete in all respect and making necy. connections with PVC Cu wire and earth continuity wire etc. ( <b>Separate 6 amp</b> )	10	set	377.00	3,770.00
32	Supply & Fixing 240 V, 5/15 A, 6 Pin Modular type plug socket with 16A Modular type switch, Modular switch type SP MCB (C-Curve) etc. complete set, without plug top on GI Modular type switch board embedded in wall with top cover plate incl. S&F GI switch board and cover plate and making necy. connections with PVC Cu wire and earth continuity wire etc. (Separate 5/15 amp)	80	set	535.00	42,800.00

33	Supply & fixing of 8 module Pop up type flush mounting power and data box in each desk along with 2 Nos. Modular 6 A 6 pin socket with switch, 1 No. Type A 1500 mA USB Charger, flushed inside furniture [ <b>Computer point : work station</b> ]	388	set	5,854.00	22,71,352.00
34	Supply & fixing of 6 modules Pop up type flush mounting power and data box in each desk along with 1 No. Modular 6/16 A 6 Pin socket/3 pin combined with switch, flushed inside furniture [ <b>Computer point : work station</b> ]	388	set	2,522.00	9,78,536.00
35	Supply & fixing of 8 modules Pop up type flush mounting power and data box in each desk along with 2 Nos. Modular 6/16 A 6 Pin socket/ 3 pin combined with switch, 1 No. HDMI Preterminated sockets at both end having min 15 m cord length, flushed inside furniture [ <b>Computer point : for meeting room table</b> ]	4	set	9,971.00	39,884.00
36	Supply & fixing of 8 module Pop up type flush mounting power and data box in each desk along with 2 Nos. Modular 6/16 A 6 Pin socket/ 3 pin combined with switch, 1 No. HDMI Preterminated sockets at both end having min 15 m cord length, flushed inside furniture [ <b>Computer point : for meeting room table</b> ]	4	set	9,971.00	39,884.00
37	Supply & fixing of modular switch board with top cover with 1 No. Modular 6/16 A 6 Pin socket, 1 No. module to house other end of above HDMI cable from HDMI Mixer switches, flushed inside false ceiling [ <b>Computer point : for meeting room projector</b> ]	2	set	381.00	762.00
38	Supply & Fixing 4 nos. 240 V, 6 A, 3 pin Modular type plug socket with 4 no 6A Modular switch(each set), 16A Modular switch type MCB (C-Curve) without plug top on GI Modular type switch board embedded in wall with Module top cover plate incl. S&F switch board and cover plate and making necy. connections with PVC Cu wire and earth continuity wire etc. <b>(TV/VC point)</b>	2	set	1,691.00	3,382.00

39	Distribution wiring in 1.1 KV grade 2x22/0.3 (1.5 sqmm) single core stranded 'FRLS' PVC insulated & unsheathed copper wire with 1x22/0.3 (1.5 sqmm) single core stranded 'FRLS' PVC insulated & unsheathed copper wire for ECC, in suitable size of PVC rigid conduit pipe (incl. S & F for concealed portion) complete with all accessories, embedded in wall/ceiling and directly through floor raceway incl. necessary fittings, S&F ceiling rose , Holder etc., as required, and to <b>light , fan points, (incl. S &amp; F) &amp; Calling bell</b> with Modular type switch fixed on Modular GI switch board providing neutral link in S.B with top cover plate flushed in wall/partition incl. mending good damages to original finish (S & F of modular switch, top cover, GI board etc. including all accessories complete in all respect).(false ceiling portion through prelaid PVC rigid conduit) ( <b>Average run 12mtr.) (Single switch-single utility)</b>	650	Point	1,426.00	9,26,900.00
40	Distribution wiring in 1.1 KV grade 2x22/0.3 (1.5 sqmm) single core stranded 'FRLS' PVC insulated & unsheathed copper wire with 1x22/0.3 (1.5 sqmm) single core stranded 'FRLS' PVC insulated & unsheathed copper wire for ECC, in suitable size of PVC rigid conduit pipe (incl. S & F for concealed portion) complete with all accessories, embedded in wall/ceiling and through floor raceway incl. necessary fittings, S&F ceiling rose , Holder etc., as required, and to <b>light, 2way Modular switch(Staircase) (incl. S &amp; F)</b> with Modular type switch fixed on Modular GI switch board providing neutral link in S.B with top cover plate flushed in wall/partition incl. mending good damages to original finish (S & F of modular switch, top cover, GI board etc. including all accessories complete in all respect).(false ceiling portion through prelaid PVC rigid conduit) ( <b>Average run 12mtr.) (Single switch-2 lights, workstation area)</b>	300	Point	1,618.00	4,85,400.00
41	Supplying and fixing suitable dia PVC rigid conduit pipe complete with fittings as necy. under ceiling/beam but above false ceiling, bound with GI binding wire incl. supplying and drawing GI Wire as fish wire inside the pipes and fittings for non-concealed portion of above point wiring part (concealed portion is considered in the point wiring above)	2850	RM	63.00	1,79,550.00

42	Distribution Wiring in 1.1 KV grade 2x22/0.3 (1.5 sqmm) single core stranded 'FRLS' PVC insulated & unsheathed copper wire with 1x22/0.3 (1.5 sqmm) single core stranded 'FRLS' PVC insulated & unsheathed copper wire for ECC, to 240 V 6A, 3 pin plug point incl. S&F 240 V 6A, 3 pin Modular type plug socket & Modular type switch incl. S&F earth continuity wire, fixed on Module GI switch board with Module top cover plate flushed in wall incl. mending good damages to original finish ( <b>On Board</b> )	130	No	249.00	32,370.00
43	Supply, Installation, Testing & Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CMM/W) minimum 6.85, Air delivery minimum 215 CMM, 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	130	No	2,420.00	3,14,600.00
44	Supply & Fixing 240V, 100Watt Modular Socket type fan regulator/dimmer on existing Modular GI switch board with top cover plate incl. Making necy. connections etc. Regulator to be installed considering BLDC fan's topology.	130	No	387.00	50,310.00
45	Supply and delivery at site of 18 inch. sweep Heavy Duty Copper Winding Exhaust Fan with aluminium die cast/GI body (min 1400 RPM).	2	No.	2,000.00	4,000.00
46	Fixing of exhaust fan after making hole in wall and making good damages and smooth cement finish etc. as required and providing necy. length of PVC insulated copper wire for making connection Heavy Duty Exhaust Fan.	2	No.	329.00	658.00
47	Supplying & Fixing of 2 sets of 240 V 50 Hz 18 window of window size 30mm x 65mm centralised integrated call bell system/ alarm annunciators of atleast indicating room no. with LED light with flashing, potential free contacts, with multitone hooter at 240V AC etc. and other accessories complete in all respect. The system should be prefabricated and powder coated, either concealed or wall mounted as per instruction/site condition.	2	Lot	74,850.00	1,49,700.00
48	Supply and fixing of 6A Call bell push switch at each cabin desk and meeting room table along with modular box and cover plate complete in all respect with all other accessories.	96	No.	209.00	20,064.00

49	Supply of recessed mounting downlighter max 12 W LED luminaire for indoor application including LED, constant current Driver, internal surge protection , electronic components in pre wired condition with all accessories . Luminaire is made up of White powder coated CRCA sheet/aluminum body with Opal diffuser . Lumen output of the fittings is min 1200 lumens in CCT of 5700 deg k ( +/- 300 Deg K ) . CRI>=80, THD<10%, P.F. >=0.95. Luminaire is suitable to operate in input voltage range of 140 V to 270 V with input power supply of 220-240V, 1 phase, 50Hz AC and in operating temperature range of 0°C to 45°C . Lifetime of the fixture should be at least 50,000 burning hours at L70B50 at 25 degree centigrade. Luminaire should be in exempted category for UV radiation as per relevant standard. Luminaire & Driver units are BIS approved. (Similar to Havells make Integra Neo DL Rec RD)	304	No	1,147.50	3,48,840.00
50	Supply of following size and details suspended Linear LED luminaire for indoor application including LED, constant current Driver, internal surge protection, electronic components in pre wired condition with all accessories . Luminaire is made up of aluminum body with Opal diffuser having viewing angle 120 degree. Lumen output of the fittings is as follows in CCT of 5700 deg k ( +/- 300 Deg K ) . Luminaire is suitable to operate in input voltage range of 140 V to 270 V with input power supply of 220-240V, 1 phase, 50Hz AC and in operating temperature range of 0°C to 45°C . Lifetime of the fixture should be at least 50,000 burning hours at L70B50 at 25 degree centigrade. Luminaire is IP 20 protected. Luminaire should be in exempted category for UV radiation as per relevant standard. Luminaire & Driver units are BIS approved. (Similar to Havells make DESTELLO 50 G2 SUS)				
a. max 12 watt, 568 mm (+/-5mm), 1200lumen, CRI>=80, THD <=10%, P.F.>=0.9		112	No	3,712.50	4,15,800.00
b. max 25 watt, 1137 mm (+/-5mm), 2750lumen, CRI>=80, THD <=10%, P.F.>=0.9		38	No	5,332.50	2,02,635.00
c. max 50 watt, 2260 mm (+/-5mm), 5500lumen, CRI>=80, THD <=10%, P.F.>=0.9		200	No	10,650.00	21,30,000.00

51	Supply of Suspended Pendent Light max 15 W LED luminaire for indoor application including LED, constant current Driver, internal surge protection , electronic components in pre wired condition with all accessories . Luminaire is made up of powder coated aluminium die cast housing with clear diffuser along with aluminum reflector . Lumen output of the fittings is min 1200 lumens CCT of 3000 deg k ( +/- 300 Deg K ), CRI>=80, PF >=0.9, THD<=15%. Luminaire is suitable to operate in input voltage range of 140 V to 270 V with input power supply of 220-240V, 1 phase, 50Hz AC and in operating temperature range of 0°C to 45°C . Lifetime of the fixture should be at least 35000 burning hours at L70B50 at 25 degree centigrade . Luminaire & Driver units are BIS approved. Luminarie should be in exempted catagory for UV radiation as per relevant standard.(Similar to Havells make Uneco Pendent Light)	302	No	2,850.00	8,60,700.00
52	Supply of 40 W LED Batten luminaire for indoor application including LED lamps, constant current Driver, internal surge protection , electronic components in pre wired condition with all accessories . Luminaire is made up of aluminium channel housing with milky white diffuser . Lumen output of the fittings is 4800 lumens CCT of 6500 deg k ( +/- 500 Deg K ) Luminaire is suitable to operate in input voltage range of 140 V to 270 V with input power supply of 220-240V, 1 phase, 50Hz AC and in operating temperature range of 0°C to 45°C . Lifetime of the fixture should be at least 50,000 burning hours at L70B50 at 25 degree centigrade .Luminaire is IP 20 protected . Luminaire & Driver units are BIS approved.	6	No.	1,290.00	7,740.00
53	Fixing of luminaries within false ceiling as recessed/suspended /on surface, as per luminarie type, including all accessories complete in all respect.	962	Each	200.00	1,92,400.00
54	Supplying & Fixing sheet metal inspection box (16 SWG) of min size 200 mm X 150mm X 65 mm, flushed in wall by housing the same after cutting wall etc. incld. Making earthing attachment painting and mending good damages to building works	25	each	212.00	5,300.00

55	Earthing with 50mm. Dia. GI pipe ISI Medium 3.64 mm thick, 3.04 mtrs. Long and 1x4 SWG GI earth wire (4mtrs long ), 13 mm. dia x 80 mm. long GI nuts and bolts, double washer, incl. S&F 65 mm. dia GI pipe protection (1mtr. Long ) to be filled with bitumen partly under the ground level and partly above ground level driven to an average depth of 3.65 mtrs below the ground level including providing necessary masonry enclosure of overall size 86.36 cm x 86.36 cm x 46 cm deep ( below the ground level), CI hinged inspection cover of size 36.56 cm x 36.56 cm and treating of soil by using salt and charcoal as required. Earthing work is to be carried out as per IS.	5	No.	3,030.00	15,150.00
56	Connecting from earth pit to earth pit, earth station to earth bus bar and Main Panel, cable tray at inclusive of S&F 25mm x 6 mm Galvanized (Hot Dip) MS flat under the ground level/on wall/floor with GI saddle as required inclusive drilling holes, bolts, nuts, washers etc. and mending good the damages as required.	200	Mtr.	138.00	27,600.00
57	Supplying & fixing 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.	100	RM	216.00	21,600.00
58	Connecting from the equipments/Earth station to earth busbar including S & F GI (Hot Dip) wire of size as below in wall/floor with staples buried inside wall/floor as required and making connection to equipments with bolts, nuts, washers, cable lugs etc. as required and mending good damages. Solid GI wire:No. 6 SWG	200	Mtr	13.00	2,600.00
59	Dismantling of existing electrical wiring including all electrical fittings, accessories, ACs etc. and deliver (including transportation) to EE(Elect.-NSD) or MM Division or M&EE Dept. CME office, as per direction of Engineer or his representative	1	Lot	1,20,000.00	1,20,000.00
				<b>Sub Total 1(Rs.) =</b>	<b>Rs.1,86,41,087.00</b>

<b>Part-B(II): Fire Alarm Detection System</b>					
<b>SL. No.</b>	<b>Item Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Unit Rate</b>	<b>Amount</b>
1	Supply of Active Repeater Addressable Fire Alarm Panel and Installation, testing and commissioning at site in all respect as per technical specifications.	1	No.	95,298.00	95,298.00

2	Supply of Addressable type multi criteria(Smoke cum Heat) detector with base for use as heat or smoke or combined both with automatic electronic addressing, microprocessor type with built-in integrated short circuit isolator as per technical specifications.	270	Nos.	4,134.00	11,16,180.00
3	Installation, testing & commissioning of above multi criteria detector in all respect as required at site.	270	Nos.	477.00	1,28,790.00
4	Supply of Addressable manual call point having inbuilt short circuit isolator as per technical specifications.Installation, testing & commissioning of above addressable manual call point in all respect as required at site.	12	Nos.	6,262.00	75,144.00
5	Supply of Addressable Loop Powered multi tone sounder with integrated short circuit isolator & having wide operating temperature range as per technical specifications.Installation, testing & commissioning of above Loop Powered multi tone sounder in all respect as required at site.	12	Nos.	5,191.00	62,292.00
6	Supply of Response indicator as per technical specifications.Installation, testing & commissioning of above response Indicators.	100	Nos.	242.00	24,200.00
7	Supply of I/O module as per technical specifications	6	Nos.	13,125.00	78,750.00
8	Installation, testing & commissioning of above modules.	6	Nos.	2,500.00	15,000.00
9	Supply of Metal Junction Box for mounting of detectors / devices etc.	125	Nos.	102.00	12,750.00
10	Installation of above Metal Junction Box in all respect as required at site.	125	Nos.	53.00	6,625.00
11	Supply & concealed laying of 2 C x1.5 sq.mm.fire alarm armoured cable, 1.1 KV rated with annealed copper conductor having XLPE insulation , armoured & FRLS outer sheath complete as required. The cable should be laid in a fully concealed manner below the false ceiling and layed on surface above the false ceiling.	2750	Mtrs.	151.00	4,15,250.00
12	Supply of 4 Core , 1.5 sq.mm., FRLS copper armoured cable as per technical specifications. The cable should be laid in a fully concealed manner below the false ceiling and laid on surface above the false ceiling.	250	Mtrs.	251.00	62,750.00



13	Supply of 8 core x .75 sq. mm. Twisted Pair Shielded cable with PVC rigid conduit.The cable should be laid in a fully concealed manner below the false ceiling and laid on surface above the false ceiling.	200	Mtrs.	299.00	59,800.00
14	Supply, Installation & Commissioning of 240W Mixer Amplifier with USB and Bluetooth,4 microphone/line inputs, plus music source input,100 V and 4-ohm loudspeaker outputs.	1	No.	25,803.00	25,803.00
15	Supply, Installation, Testing and CommissioningTABLE-TOP MICROPHONE-Tabletop unidirectional condenser microphone on a flexible stem.Phantom powered by amplifier. This includes all accessories like suitable microphone cable. Sensitivity-(2 mV/Pa),Frequency response 100 Hz to 16 kHz.	1	Nos.	9,468.00	9,468.00
16	Supply ,Installation and Commissioning of 6 Watt Ceiling Loudspeaker with 100V matching Transformer with tappings in primary winding. The Ceiling load speaker should be compatible with the amplifier.It should have integral spring clamps on the rear which can be used to easily fix the loudspeaker into the false ceiling.	40	Nos.	846.00	33,840.00
17	Supply & Delivery of Speaker Cable, 2C X 1.5 Sq.mm, Twin Parallel Speaker Cable, Oxygen-free Copper as per Class 6 of IS: 8130/84, latest, Insulation PVC, generally as per IS 8130/84, IS 694, /IS 5831, etc. with latest up to date amendments.	250	Mtrs.	61.00	15,250.00
18	Laying, Termination & commissioning of the above Speaker Cable with suitable connectors.	1	LOT	3,050.00	3,050.00
<b>Sub Total 2 (Rs.) =</b>					<b>22,40,240.00</b>

<b>Part-B(III): Air-Conditioning System</b>					
<b>Sl. No.</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Unit Rate(Rs)</b>	<b>Amount (Rs)</b>
	<b><u>Inverter based VRV/ VRF System</u></b>				
1	<b>Outdoor Units</b>				
	Lifting,Shifting,Supply Installation, Testing & Commissioning of modular type Cooling only Variable Refrigerant Flow/Variable Refrigerant Volume air cooled Outdoor units suitable for cooling only, having all hermetically sealed inverter type <b>Scroll Compressor(s)</b> , minimum two compressors for above 14 HP modules, microprocessor based Controller, top discharge type condensing unit(s), with R 410 A Refrigerant, vibration isolators, with suitable foundation etc. with refrigerant-cooled PCB for better performance complete as required. The unit shall deliver the rated capacity at AHRI Conditions and work even at 49°C ambient temperature without tripping. The unit shall be suitable to work on 400V +/- 10%, 3 Phase, 50Hz AC power supply. The unit shall be filled with first charge of the refrigerant and ready for use as required. MS/GI powder coated stand with vibration isolation pads.				
	The ODU shall have low noise condenser fans with external static pressure of the outdoor unit shall be more than 75 Pa to avoid hot air recirculation, auto address setting, auto check function for connection error and complete with indoor and outdoor units with individual controller and with fittings etc. The compressor and VRV/VRF Outdoor make should be same. For enhanced energy savings the COP of refrigerant circuit system for 24 HP and above shall be 6.9 minimum and for circuits 8 HP to 20 HP shall be 6.8 minimum at 50% load, at AHRI Condition in cooling mode. The unit shall also have feature to automatically modulate the evaporative temperature between 6 deg C to 11 deg C with respect to load for better comfort and energy efficiency.The Unit should have free phase technology so that unit can work in case of phase reversal also without tripping of units. Makes : Mitsubishi Electric, Daikin, Fujitsu general,Toshiba, Carrier, Hitachi				
	Outdoor unit complete with scroll compressor, condenser & its controller as described below of following actual capacities.				
1.01	32 HP= <b>(14+18)HP</b>	1	Nos	6,05,200.00	6,05,200.00
1.02	34 HP = <b>(16+18)HP</b>	4	Nos	6,44,250.00	25,77,000.00
1.03	38 HP= <b>(20+18)HP</b>	1	Nos	7,09,400.00	7,09,400.00
1.04	54 HP = <b>(18+18+18)HP</b>	1	Nos	10,05,700.00	10,05,700.00
1,05	60HP= <b>(20+20+20)HP</b>	1	Nos	11,04,000.00	11,04,000.00
2	<b>Indoor VRV Units (Nominal Capacity) - Ceiling Mounted Round/4way flow cassette type unit with Sensing type Cassette Panel.</b>				
	Supply Installation, Testing & Commissioning of following minimum capacity 4-way/ round flow VRV/VRF Cassette Type Indoor ceiling mounted unit equipped with cordless remote , synthetic washable media pre-filter, fan section with low noise fan/dynamically balanced blower, multispeed motor, coil section with DX copper coil, electronic expansion valve, outer cabinet, drain pan, drain pump, cassette grill, insulation, necessary supports, vibration isolation etc, suitable for operation on 230 V ± 10%, 50 Hz single phase AC supply, complete as required. The unit shall have automatic force shut down provision in case of fire. All indoor Units should have force shut option to connect with fire alarm adaptor, so that the unit automatically stops in case or fire. The cooling capacity of indoor unit will be at air inlet conditions of 27 degree C DBT				

	and 19 degree C WBT. All 4 louvers of the unit shall be independently adjustable for position as per user preference.				
	<b>The cassettes units shall have dual sensor which detect the presence of people and floor temperature to provide comfortable air-conditioning and energy saving. The sensor should detect human presence and adjust the airflow direction automatically to prevent drafts. Room temperature should increase upto 4 deg C or the indoor to be switched off when no people are detected or as per user preference. The sensor should detect the floor temperature and automatically adjusts the operation of the indoor unit to reduce the temperature difference between the ceiling and the floor. The cassette unit should be with PM2.5 filter housed in filter chamber for better Indoor Air Quality. Makes of VRF Systems Mitsubishi Electric, Daikin, Fujitsu-general, Toshiba, Carrier, Hitachi</b>				
2.1	4way throw normal cassette( 840mmX840mm)				
2.1a	2.56 TR with <b>850</b> cfm at hi speed	6	Nos	52,500.00	3,15,000.00
2.1b	3.2 TR with <b>1150</b> cfm at high speed	50	Nos	53,900.00	26,95,000.00
2.1c	4.02 TR with <b>1200</b> cfm air at high speed	12	Nos	55,125.00	6,61,500.00
2.2	<b>Supply ,Installation ,Testing &amp; commissioning of Ceiling mounted Round/4way throw Compact Cassette Makes of VRF Systems Mitsubishi Electric, Daikin, Fujitsu general, Toshiba, Carrier, Hitachi</b>				
2.2a	.8TR cooling capacity 315 cfm at high speed	10	Nos	48,700.00	4,87,000.00
2.2b	1.3 TR cooling Capacity 350cfm at high speed	16	Nos	53,050.00	8,48,800.00
3	<b>Supply ,Installation ,Testing &amp; commissioning of Hi wall mounted VRV Hi wall unit consists of Indoor fan blower with cordless remote controller Makes of VRF Systems Mitsubishi Electric, Daikin, Fujitsu general, Toshiba, Carrier, Hitachi</b>				
3.1	.8TR cooling capacity 315 cfm at high speed	4	Nos	25,950.00	1,03,800.00
3.2	1.3 TR cooling Capacity 450cfm at high speed	30	Nos	27,940.00	8,38,200.00
4	<b>Fresh Air System</b>				
	<b>Supply ,Installation ,Testing &amp; commissioning of Energy reclaim ventilation system capable of supplying fresh air of 850cfm air &amp; exhaust of equivalent Air from conditioned zone. The unit shall be insulated by Self-Extinguishable polyurethane foam. The unit consists of multidirectional fibrous fleeces filter with specially processed nonflammable paper heat exchanged material. The CO2 sensor to control the airflow rate so as to enable to match the changes of CO2 level in the room in order to prevent energy losses from over-ventilation while maintaining indoor air quality with optimal CO2 sensor. Makes of VRF Systems Mitsubishi Electric, Daikin, Fujitsu general, Toshiba, Carrier, Hitachi</b>	6	Nos	1,29,200.00	7,75,200.00
5	<b>Connection kit</b>				
5.1	Supply, installation, Testing & commissioning of Y joints to connect various indoor unit to outdoor unit Makes : Mitsubishi Electric, Daikin, Fujitsu general, Toshiba, Carrier, Hitachi	120	Nos	4,100.00	4,92,000.00
6	<b>Controller system</b>				

6.1	Supply,Installation,Testing & commissioning of centralised I-Touch Manager indoor units should control 64 nos Indoor groups. This should be Touch screen type with necessary adaptors Makes : Mitsubishi Electric, Daikin, Fujitsu general,Toshiba, Carrier, Hitachi	2	Nos	1,32,500.00	2,65,000.00
6.2	Remote controller for Cassette Indoor unit Makes : Makes : Mitsubishi Electric, Daikin, Fujitsu general,Toshiba, Carrier, Hitachi	94	Nos	3,750.00	3,52,500.00
7	<b>Refrigerant Piping</b>				
	Supply & Installation of interconnecting following sizes of refrigerant copper pipe work of following outer diameter, insulated with 19/13 mm thick closed cell electrometric Nitrile rubber tubular insulation(incl. S & F) between each set of indoor & outdoor units . The pipe dia upto 19mm shall be soft seamless & above 19mm dia shall be hard seamless . All piping inside the room shall be properly fixed/supported with suitable size of clamp/ M.S. hanger and all external piping shall run in GI. cable tray (Price Extra) etc. as reqd. (make Rajco, Mandev)				
7.01	41.3 mm	75	Rmt	2,810.00	2,10,750.00
7.03	34.9 mm	95	Rmt	2,190.00	2,08,050.00
7.04	31.75 mm	40	Rmt	1,780.00	71,200.00
7.05	28.6 mm	295	Rmt	1,595.00	4,70,525.00
7.06	25.4MM	65	Rmt	1,190.00	77,350.00
7.07	22.2 mm	155	Rmt	965.00	1,49,575.00
7.08	19.1 mm	215	Rmt	840.00	1,80,600.00
7.09	15.9 mm	445	Rmt	775.00	3,44,875.00
7.10	12.7 mm	252	Rmt	565.00	1,42,380.00
7.11	9.5 mm	466	Rmt	465.00	2,16,690.00
7.12	6.35mm	115	Rmt	345.00	39,675.00
8	Providing & fixing of Covered cable tray with GI Sheet cover for exposed piping of the following size:				
8.1	(300mm X 50mm X 50mm)	134 5	Rmt	830.00	11,16,350.00
9	<b>Drain Piping</b>				
9.1	Providing & fixing of PVC Pipe complete with fittings, supports as per specifications and duly insulated with 9 mm thickness Class O of closed cell nitrile rubber/XLPE as per direction of Engineer-in-charge & specifications enclosed as reqd.				
9.2	40/50 mm dia	120	Rmt	275.00	33,000.00
9.3	32 mm dia	415	Rmt	210.00	87,150.00
9.4	25mm dia	125	Rmt	168.00	21,000.00
10	<b>Control &amp; Transmission Wiring</b>				
10.1	Providing & fixing control cum transmission wiring of 2 core x 1.0 sqmm shielded copper cable in suitable conduits between indoor and out door unit. (Fininilex,polycab)	179 0	Rmt	192.00	3,43,680.00
11	<b>Exhaust fan for Toilet</b>				
11.1	Supply & Installation of Inline fan -1200cfm with 15 external static pressure(carryaire/Crugre)	2	nos	42,500.00	85,000.00
12	<b>Air Distribution</b>				
	Supply, Manufacturing, fixing,testing and commissioning of site fabricated Galvanised ducting complete with supports,dampers etc.as per specifications.(Sail/Tata/Jindal)				
12.0 1	22 Gauge GI.sheet.	55	Sqm	1,230.00	67,650.00
12.0 2	24 Gauge GI.sheet.	132	Sqm	975.00	1,28,700.00

13	Supply, installation and testing of G.I Volume control Dampers with in duct as per specification(CarryAir)	2.8	Sqm	5,800.00	16,240.00
14	Canvass connection	2	nos	1,840.00	3,680.00
15	Grills/Diffusers				
	Dynacraft/metal forge/carryair or equivalent make linear grills or extruded aluminium section finished with powder coated or approved colour.				
15.1	Aluminium powdercoated Grill & diffuser without VCD	6	Sqm	10,800.00	64,800.00
16	Gas Charging for the entire circuit(R410A)	145	KG	790.00	1,14,550.00
	<b>Subtotal 3 (Rs.)=</b>				<b>₹ 1,80,28,770.00</b>

<b>Part-B(IV): Lift Work</b>					
Sl No	Description of item	Qty	Unit	Unit rate (in Rs)	Total Value (in Rs)
1	Dismantling of existing lift and their accessories from lift shaft and hand over the dismantled material to the SMPK sales yard of MM Division. And thereafter Design, Manufacturere, Supply, Delivery, Installation, Testing & commissioning of 8 passengers lift & all accesories including ARD in the existing lift shaft for the entire building height as per scope of work and Technical Specification.	1	Lumpsum	15,27,970.00	15,27,970.00
	<b>Sub-total 4 (Rs.)=</b>				15,27,970.00
	<b>Total (Electrical &amp; AC) (Rs.)=</b>				<b>₹ 4,04,38,067.00</b>
	<b>Total of PART (A+B) (Rs.) =</b>				<b>9,47,48,414.80</b>

**Total Amount (Part A+Part B)= Rs.9,47,48,414.80/ (Rupees Nine Crore Forty Seven Lakh Forty Eight Thousand Four Hundred Fourteen and Paise Eighty Only)**

Tenderer to fill up the following [score out which is not applicable]

**price not to be quoted here**

(a)..... %  
(in figures) Below par (-) Rs.

.....Percent  
(in words)  
(b)..... At par  
NIL  
(c)% (in figures) Above par (+) Rs.

..... Percent (in words)  
**Total Tendered Amount: Rs.** \_\_\_\_\_

Total tendered amount (in words).....

**[The prices quoted shall be including all statutory levies excluding GST, which shall be paid extra]**

Maximum number of workmen likely to be engaged in days worknumbers

Permanent Income Tax A/C. No...

.....

Date:

(Signature of Tenderer)

[Total amount of tender, completion time and preliminary time as quoted / stated above are to be carried over to Form of Tender attached]

Witness: -

(Name in block letters) Address:

Occupation:

**THE BOARD OF TRUSTEES FOR THE PORT OF KOLKATA**  
**FORM OF TENDER**

To  
 The Chief Engineer,  
 Syama Prasad Mookerjee Port, Kolkata.

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 **10(Ten) Months** 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 mention here**

(Repeat in words) \_\_\_\_\_ **Not to mention here**

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), SMPK, 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:

(Signature of Bidder with Seal)

Name of the Bidder: -

Address: -

ANNEXURE – F



**KOLKATA PORT TRUST KOLKA  
TADOCK SYSTEM**

**CIVIL ENGINEERING DEPARTMENT**

**15, STRAND ROAD, KOLKATA-700001**

---

**GENERAL CONDITIONS OF CONTRACT**

**FORMS AND AGREEMENTS**

**SANCTIONED BY TRUSTEES UNDER RESOLUTION  
NO.92  
OF  
THE 6<sup>TH</sup> MEETING HELD ON 27<sup>TH</sup> MAY, 1993.**

**(Copy of Booklet Published on May, 1993)**

---



## TABLE OF CONTENTS

- A. INDEX TO GENERAL CONDITIONS OF CONTRACT
- B. FORM OF TENDER
- C. FORM OF AGREEMENT
- D. FORM GC1, GC2, GC3
- E. PERFORMANCE BOND
- F. INTEGRITY PACT

## GENERAL CONDITIONS OF CONTRACT

### INDEX

#### **CLAUSE**

1. DEFINITIONS.
2. DUTIES & POWERS OF ENGINEER & ENGINEERS' REPRESENTATIVE.
3. THE TENDER/OFFER AND ITS PRE-REQUISITES.
4. THE CONTRACT & GENERAL OBLIGATION OF CONTRACTOR.
5. COMMENCEMENT, EXECUTION AND COMPLETION OF WORK.
6. TERMS OF PAYMENT.
7. VARIATION AND ITS VALUATION.
8. DELAY/EXTENSION OF COMPLETION TIME/LIQUIDATED DAMAGE/TERMINATION OF CONTRACT.
9. MAINTENANCE AND REFUND OF SECURITY DEPOSIT.
10. INTERPRETATION OF CONTRACT DOCUMENTS, DISPUTES & ARBITRATION.

## 1. DEFINITIONS

- 1.0. In the contract, as hereinafter defined, the following words and expressions shall have the meaning hereinafter assigned to them, except where the context otherwise requires.
- 1.1. **"Employer"** or "Board" or "Trustees" means the Board of Trustees for the Port of Kolkata, a body corporate under Section 3 of the Major Port Trust Act, 1963, including their successors, representatives and assigns.
- 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.
- 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 representative's heirs, successor and assigns, if any permitted by the Board / Chairman.
- 1.4. **"Engineer"** means the Board's official who has invited the tender on its behalf and includes the Chief Engineer, the Chief Mechanical Engineer, the Senior Executive Engineer, the Chief Hydraulic Engineer, the Deputy Chief Engineer, the Deputy Chief Mechanical Engineer, the Senior Resident Engineer, The Manager (Infrastructure & Civic Facilities), the Manager (Plant & Equipment) the Deputy Manager (Infrastructure & Civic Facilities) and the Deputy Manager (Plant & Equipment), 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.
- 1.5. **"Engineer's Representative"** means any subordinate Engineer 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.
- 1.6. **"Work"** means the Work to be executed in accordance with the Contract and includes authorized "Extra Works" and "Excess Works" and Temporary 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.
- 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 works (i.e., Bills 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.
- 1.9. **"Specifications"** means the relevant and appropriate Bureau of Indian Standard's Specifications (latest revisions) for materials and workmanship unless stated otherwise in the Tender.

- 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.
- 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.
- 1.12. "**Constructional Plant**" means all appliances or things of whatsoever nature required in 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 work.
- 1.13. "**Site**" means the land and other places, on, under, in or through which the works are to be executed or carried out and any other lands or places provided by the Trustees for the purpose of the Contract.
- 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 deduction therefrom as may be made by the Engineer under the provisions here-in-after contained.
- 1.15. "**Month**" means English Calendar 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 usurpation 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).
- 1.17. Word importing the **singular** only, also includes the **plural** and vice-versa where the context so required.
- 1.18. The **headings 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 of the contract.
- 1.19. Unless otherwise stipulated the word "Cost" shall be deemed to include overhead costs of the contractor, whether on or off the site.

## **2. DUTIES & POWERS OF ENGINEER & ENGINEER'S REPRESENTATIVE**

- 2.1. The Contractor shall execute, complete 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.

2.2. The Contractor shall take instructions from the Engineer and subject to limitation of Clause 2.5 he shall be bound by the instructions of the Engineer's Representative.

2.3. The Engineer shall have full power and authority

- (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.
- (b) to alter or modify the specification of any material and workmanship and to inspect the work at any time.
- (c) to order for any variation, alternation and modification of the work and for extra works.
- (d) to issue certificates as per contract.
- (e) to settle the claims & disputes of the Contractor and Trustees, as the first referee.
- (f) to grant extension of completion time.

2.4. The Engineer's representatives shall:

- (a) watch and supervise the works.
- (b) test and examine any material to be used or workmanship employed in connection with the work.
- (c) 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.
- (d) take measurements of work done by the contractor for the purpose of payment or otherwise.
- (e) order demolition of defectively done work for its reconstruction all by the Contractor at his own expense.
- (f) have powers to issue alteration order not implying modification design and extension of completion time of the work and
- (g) 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.

2.5. Provided always that the Engineer's Representatives shall have no 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:

- (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-construction at the contractor's cost and the contractor shall have no claim to compensation for the loss 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 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. Contractor and the Trustees as though it had been given by the Engineer, who may from time to time, make such delegation.

### **3. 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 consider all factors, risks and contingencies, which will have direct and in direct impact on his expenses and profit from the work and shall be specifically deemed to have taken the following aspects into consideration:
  - (a) The form and nature of the site and its surroundings including their sub-surface, hydrological, tidal and climate 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.
  - (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.
  - (c) The accommodation required for the workmen and site office, mobilization / demobilization and storage of all plant, equipment and Construction 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 of Contractor's cost.
  - (e) Payment of taxes and duties and compliance of all applicable statutes, ordinances and law together with the rules made there under, 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.

- (f) Payment of all kinds of stamp-duty for executing the agreement or for any legal instrument including Bank Guarantees and Indemnity Bonds.

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 initialing 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 of a contract, if entered into, shall be liable to be cancelled.

3.4.

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

Estimated Value	Amount of Earnest Money	
	For works contract.	For contract of supplying material also equipment only
Up to Rs.1,00,000/-	5% of the estimated value of work	1% of the estimated value of work.
Over Rs.1,00,000/-	2% of the estimated value of work subject to a maximum of Rs.20,000/- and minimum of Rs.5,000/-	1/2% 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 Trustees' treasurer in cash or by Banker's Cheque of any Kolkata Branch of a Nationalized Bank of India drawn in favour of Kolkata Port Trust or in the form of an "Kolkata Port Trust" and payable at Kolkata / Haldia Holding as the case may be and the receipt granted therefor be kept attached to the Tender/Offer in the Sealed Cover.
- (c) Earnest Money of un-accepted tender shall be refunded without any interest through A/c. Payee Cheque drawn on a Nationalized Bank of Kolkata/Haldia.
- (d) The enlisted (registered) Contractors of the Trustees, who have deposited fixed Security with the Trustees FA & CAO / Manager (Finance) according to this 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.10,000/-	Any tender priced up to Rs. 2,00,000/- Any tender priced up to Rs.1,00,000/- Any tender priced up to Rs.50,000/-
B	Rs.5,000/-	
C	Rs.2,500/-	

- (e) (i) Tender submitted without requisite Earnest Money may be liable to rejection.
- (ii) If before expiry of the validity period of his Tender / offer, the tender 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 of the option of the Trustees.
- (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.
- (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.

Value of Work	% of Security Deposit for works contract	% of Security Deposit for Contract of supplying materials and equipments only
For works upto 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/- + 1/2% on the balance
For works costing more than Rs.20,00,000/-	10% on first Rs.10,00,000/- + 7½% on next Rs.10,00,000/- + 5% on the balance	1% on first Rs.10,00,000/- + 1/2% on next Rs.10,00,000/- + 1/4% 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 Nationalized Bank of India drawn in favour of Kolkata a Port Trust and payable at Kolkata/Haldia, as the case may be.
- (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.
- 3.5.
- (i) The Security Deposit shall be 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. If, 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 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.

(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.

- 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 Kolkata/Haldia Branch, as the case may be, of any Nationalized 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 are liable to forfeiture; all at 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-fulfillment 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.
- 3.7. Every Tenderer / bidder shall submit in respect of a tender value of more than Rs. 5 crores, 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 G.C.C. In case of tender value more than Rs. 5 crores, the Integrity Pact Agreement is an essential part and parcel of the bid document to be submitted by each tenderer, without which the tenders shall not be considered.

#### **4. THE CONTRACT & GENERAL OBLIGATIONS OF CONTRACTOR**

##### 4.1.

- (a) The contract documents shall be drawn-up in English language.
- (b) The contract shall be governed by all relevant Indian Acts as applicable only within the jurisdiction of the High Court at Kolkata, India, including the following Act:
1. The Indian Contract Act, 1872.
  2. The Major Port Trust, 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 Indian Arbitration Act (1940) (in the case of a definite arbitration Agreement only).

- 4.2. After acceptance of his Tender/Offer and when called upon 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.

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

proposed procedure and methods of work, (c) proposed deployment of plant, equipment labour, materials and temporary works. The submission to and/or any approval by the Engineer or his Representative to any such programme or particulars, shall not relieve the Contractor of any of his obligations under the contract. If for any reason the contractor be unable to adhere to his earlier programme, he shall submit this revised programme for completion of work within the stipulated time whenever asked to do so.

- 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 his site.
- 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.
- 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, benchmarks, sight rails, pegs, level marks, profile marks and other things used in setting-out the works.
- 4.13. From the commencement of the work 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 be recoverable from the Contractor in whatever manner 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.
- 4.14. The Contractor shall at his own cost protect, support and take all precautions in regard to the personnel or structure or services or properties belonging to the Trustees or not, which may be interfered with or affected or disturbed or endangered and shall indemnify and keep indemnified the Trustees

against claim for injury, loss or damage caused by the Contractor in connection with the execution and maintenance of the work to the aforesaid

properties, structures and services and/or to any person including the Contractor's workmen. Cost of Insurance Cover, if any, taken by the Contractor shall not be reimbursed by the Trustees, unless otherwise stipulated in the Contract.

- 4.15. The Contractor shall immediately inform the Engineer's Representative if any fossil, coins, articles of value or antiquity and structures and other remains or things of geological or archaeological importance be discovered at site which shall remain the property of the Trustees and protect them from being damaged by his workmen and arrange for disposal of them at the Trustees' expense as per the instruction of the Engineer's Representative.
- 4.16. The Contractor shall be deemed to have indemnified the Trustees against all claims, demands, actions and proceedings and all costs arising there from on account of:
- (a) Infringement of any patent right, design, trade-mark, or name or other protected right, in connection with the works or temporary work.
  - (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) Unauthorized obstruction or nuisance caused by the Contractor in respect of Public 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.
- 4.17. Debris and materials, if obtained by demolishing any properly, building or structure in terms of the Contract shall remain the property of the Trustees.
- 4.18. The Contractor's quoted rates shall be deemed to have been inclusive of the following:
- (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 the entire 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 labourers 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 Kolkata Municipal Corporation or other 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 in case of Trustee's enlisted Contractor to the address as appearing in the trustee's Register 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 dispatch.

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.

4.21. The Contractor shall, at the Trustees' cost to be decided by the Engineer, render all reasonable facilities and Co-operation as per direction of the Engineer or his representative to any other Contractor engaged by the Trustees and their workmen, to the 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.

4.22. The work has to be carried out by the Contractor causing the minimum of hindrance for any maritime traffic or surface traffic.

4.23. All constructional plants, temporary works and materials when brought to the site by the contractor, shall be deemed to be the property of the Trustees who will have a lien on the same until the satisfactory completion of the work and shall only be removed from the site in part or in full with the written permission of the Engineer or his Representative.

## **5. COMMENCEMENT, EXECUTION AND COMPLETION OF WORK**

5.1. The contractor shall commence the work within 7 days of the receipt of Engineer's letter informing acceptance of the Contractor's tender / offer by the Trustees or within such preliminary time as mentioned by the contractor in the

Form of Tender or the time accepted by the Trustees. The contractor shall then proceed with the work with due expedition and without delay, except as may be expressly sanctioned or ordered 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 near the site, to which the Engineer's Representative may send communications and instructions for use of the Contractor.
- 5.3. Unless specified otherwise in the contract prior permission of the Engineer has been taken, the contractor shall not execute the work beyond the working hours observed by the Engineer's Representative and on Sundays and Holidays observed in the 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.
- 5.5. Unless stipulated otherwise, in the contract, all materials, workmanship method of measurements 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 materials and workmanship shall be of the best of their respective kinds to the satisfaction of the Engineer.
- 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.
- 5.7. 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.
- 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.
  - (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 not stagger removal or cause to be removed any such material from the site without his permission.

- (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 requirements of such material to the Engineer from time to time.
- (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/ 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 affect timely supply thereof.
- (e) If the Engineer decides that due to the contractor's negligence, and 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 19.25% extra over the higher one of the following:
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 inspect 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 of 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.
- 5.10. Now 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 through 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.

5.11. On a written order of the Engineer or his Representative the 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 orders shall be considered by the Trustees, unless such suspension is

Otherwise provide for in the contract, or

1. Necessary by reason of some default on the part of the Contractor, or
2. Necessary by reason of climatic conditions on the site, or
3. Necessary for proper execution of the works or for the safety of the works or for 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.

If at any time before or after commencement of the work the Trustees do not require the whole of the work tendered for, the Engineers 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 instruction.

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 takeover and / or used by the Trustees the Contractor shall on application be entitled to partial completion certificate in the Form of 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.

## **6. TERMS OF :**

- 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. On account payments, if any, made prior to issue of the certificate in Form G.C.2, shall all be treated as mere advances, which shall stand recoverable in full or in part, if the Engineers so decide in the context of Contractor's unfulfilled contract condition, if any.
- 6.2. All payments shall be made to the Contractor on the basis of measurement of actual work done, as recorded in the Trustees' measurement books and accepted tendered or at agreed rates, as the case may be except as otherwise provided in the contract and when the Engineer decided any other rate for change in the scope of work or omission, if any, on the part of the Contractor.

- 6.3. For work of sanctioned tenders 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.
- 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 Measurement 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.
- 6.5. Based on the quantum of work and the value thereof computed in the Measurement Book, the Contractor shall type out this 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 abstract of quantities, amount and recoveries to type out the bill.
- 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.

- ii. The value of such materials shall be assessed by the Engineer or his Representative, at their 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 misused due to the contractor postponing the execution of the work or otherwise.
  - v. In the event of shortage 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 favoring the Trustees and for the same sum as is being advanced, in the proforma and manner acceptable to the Trustees. The Guarantee shall be of a Kolkata / Haldia Branch of any Nationalized Bank or a Scheduled 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. Consequently 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 over certify for payment or the Trustees should over-pay the Contractor on any account.
- 6.8. No claim for interest shall be admissible 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.

## **7. 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 fulfillment of his obligation under the contract.
- 7.2. The Engineers shall have the power to order the Contractor in writing to make any variation of the Quantity, quantity 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:

- 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 prices shall be varied accordingly.
- 7.4. Provided always that written order of the Engineer shall not be required for increase or decrease in the quantity of any work up to 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's subsequent written confirmation of such verbal order shall be deemed to be an order in writing within the meaning of this clause.
- 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.
- 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 and 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 work 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. DELAY/EXTENSION OF COMPLETION TIME/LIQUIDATED DAMAGE/T  
TERMINATION OF CONTRACT**

- 8.1. Should the quantum of extra or additional work of any kind or delayed availability of the Trustees' material to be supplied as per contractor exceptionally adverse climatic conditions and natural phenomenon or strikes, lock-outs, civil commotions 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 Damages" Clause (No. 8.3 hereof) on the Contractor and his decisions shall be binding on the contractor. If an extension of completion time is granted by the Engineer, the clause No. 8.3 of the Liquidated damages shall apply from its date of expiry, if the work be not completed within the extended time, unless stated otherwise in the decision communication by the Engineer, as aforesaid.
- 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 price) as mentioned in the latter of acceptance of the tender/offer, for every week or part thereof the work remains unfinished. Provided always that the amount of such compensations shall not exceed 10% of the said value of work.
- 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 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:
- (i) The Contractor has abandoned the contract.
  - (ii) In the opinion of the Engineer, either the performance of the Contractor is not satisfactory or the work is not getting completed within the agreed period on account of Contractor's lapses.

- (iii) The Contractor has failed to commence the work or has without any lawful excuse under these conditions, has kept the work suspended despite receiving the Engineer's or his Representative's written notice to proceed with the work.
- (iv) The Contractor has failed to remove materials from site after receiving from the Engineer or his Representative the written notice stating that the said materials or work are rejected by him.
- (v) The Contractor is not executing the work in accordance with the contract 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 adjudged insolvent or enters into composition with his creditors or being a company goes into liquidation either compulsorily or voluntarily.

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 through any other agency of 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 whole of the work in accordance with the contract.

8.3.3 Upon termination of contract, the contractor shall be entitled to receive payment of only 90 % of the value of the work actually done or materials actually supplied by him and subject to recoveries as per contracts, 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 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 cases 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 and known in all respect.

## **9. 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 the 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 through other agency at the Contractor's risk and cost and all expenses, consequent thereon or incidental thereto, shall be recoverable from the Contractor in manner deemed suitable by the Engineer.
- 9.2. The Contract 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 trustee shall not relieve the Contractor of his obligations under the contract for full and final completion of the work.
- 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.

## **10. INTERPRETATION OF CONTRACT DOCUMENTS , DISPUTES & 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 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 work 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.

- 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.
- 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 required 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.
- 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 it was left by his predecessor.
- 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 Kolkata or as may be fixed by the Arbitrator in his sole discretion. Upon every or any such reference to cost of any incidental to the reference and award respectively shall be in discretion of the Arbitrator whom may determine, the amount thereof for 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 there under, 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 decisions. 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 8.3 to 8.3.7 hereinabove would apply in the case 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 stipulated in the contract, must be submitted to the Engineer, with detailed justifications in the context of contract Conditions, before the final completion of the work. No dispute or difference on any matter whatsoever, pertaining to the contract can be raised by the contractor after the completion of the work.

(d) Contractor's claim / dispute raised beyond the time limits prescribed in sub-clauses 8.5 (b) and 8.5 (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 on their sole discretion, by adding the names of new Arbitrators and/or by deleting the names of existing Arbitrators, without any reference to the Contractor.

**THE BOARD OF TRUSTEES FOR THE PORT OF KOLKATA FOR**

**MOFTENDER**

**CONTRACT NO.**.....

To,

.....I/

We

..... of

.....

having examined the site of works, inspected the Drawings and read the Specifications, General and Special Conditions of Contract and Conditions of 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 and prices set out in the annexed Bill of Quantities with ..... month/week from the date of the 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, Drawings and Special & General Conditions of Contract and I/We hereby agree that until such Contract Agreement is executed the said Specifications, 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 TENDERS (Not To be filled up)**

(Repeat in words) (Not to be filled up)

\*\*\*\*\*

\*

\*\*\*\*\* .....  
.....

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

(\*This should be scored out in the case of labour contracts)

I/We have deposited with the Trustees' Financial Advisor & Chief Accounts Officer/Manager (Finance), Haldia Dock Complex vide Receipt No ..... of ..... as Earnest Money.

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

Witness: Signature .....  
Name .....  
Signature of the Tenderer  
(Seal of the Tenderer)  
Name of the Tenderer

(In Block Letters) (I  
n Block Letters)

Address ..... Dated  
.....

..... Address  
..... Occupation

n .....  
.....

**THE BOARD OF TRUSTEES FOR THE PORT OF KOLKATA**

**FORM OF AGREEMENT**

THIS AGREEMENT made this.....day of.....200.....between the Board of Trustees for the Port of Kolkata, a body corporate constituted by the Major Port Trusts Act, 1963 (hereinafter called "Trustees" which expression shall unless excluded by or repugnant to the context be deemed to include their successors in office) of the one part and

.....(hereinafter called "the Contractor", which expression shall unless excluded by or repugnant to the context be deemed to include its heirs, executors, administrators, representatives and assignees or successors in office) of the other part

WHEREAS the Trustees are desirous that certain works should be executed/constructed, viz.

.....and have accepted a Tender/Offer by the Contractor for the execution and maintenance of such work NOW THIS AGREEMENT WITNESSETH as follows:

1. In this Agreement words and 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.

- (a) The said Tender/Offer & the acceptance of the Tender/Offer
- (b) The General Conditions of Contract
- (c) The Special Conditions of Contract
- (d) The Conditions of Tender
- (e) The Technical Specifications
- (f) The Schedule of Rates
- (g) The Terms of Payment
- (h) All correspondence by which, the contract is added, amended, varied or modified in anyway by mutual consent.

3. In consideration of the payments to be made by the Trustees to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Trustees to execute and maintain the work in conformity in all respects with the provisions of the contract.

4. The Trustees hereby covenants to pay to the Contractor, in consideration of such execution and maintenance of the Work, the Contract Prices at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused their respective Common Sealst  
to be hereunto affixed (or have hereunto set their respective hands and seals) the day and ye  
ar 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 the presence of:*

Name .....  
Address: .....

**KOLKATA PORT TRUST**

**FORM G.C.1**

Contractor.....  
Address .....,  
.....Date  
of Completion  
.....

Dear Sir/s,

This is to certify that the following works viz.

Name of the Work.....  
.....Estimate Number  
E.E.O.....dt  
C.E.O.....dt  
Work Order Number  
.....  
Location.....  
Contract Number.....

Which was carried out by you in the opinion of the undersigned completing in every respect on the ----- Day of -----, 20..... in accordance with clause 62 of the General Conditions of Contract and under the provisions of the Contract for a period of ----- Days/weeks/months/ years.

From the.....day of.....20.....  
To the.....day of.....20.....

Signature( ..... )  
**(Engineer/Engineer's Representative)**

Name.....

Designation.....

Office Seal

c.c. to The Deputy Chief Engineer( ..... )  
The Deputy Manager( ..... )  
Financial Adviser & Chief Accounts Officer/Manager (Finance), Haldia Dock Complex.

**KOLKATA PORT TRUST**

**FORM G.C.2**

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

**CERTIFICATE OF FINAL COMPLETION**

This is to certify that the following works viz.

Name of Work .....

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

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

Work Order No. .... dt. ....

Contract No. ....

Resoln.No & Meeting No

..... Allocation

ion .....

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

Signature ( ..... )  
**(Engineer/Engineer's Representative)**

Name .....

Designation .....

Office Seal

**KOLKATA PORT TRUST**

**FORM G.C.3**

(‘No Claim’ Certificate From Contractor)

The  
Engineer Kolkata  
Port Trust Kolkata/H  
aldia

(Attn:.....)

(Address, the Trustees’ Official, mentioned in the  
work Order and under whom the Contract  
was executed)

Dear Sir,

I/We do hereby declare that I/We have received full and final payment from Kolkata Port Trust for the execution of the following work, viz.

Name of Work.....

Work Order No.....dt.....

Contract No.....dt.....

Agreement No.....dt.....

and I/We have no further claim against Kolkata Port Trust in respect of the above mentioned job.

Yours faithfully,

(Signature of Contractor)

Date.....

Name of Contractor.....

Address .....

.....

(Official Seal of the Contractor)

**Draft Proforma of 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 nationalized Bank of India on Non-Judicial Stamp Paper worth Rs.50/- or as decided by the Engineer/Legal Adviser of the Trustees.**

To  
The Board of  
Trustees for the Port of K  
olkata.

BANK GUARANTEE

NO.....DATE.....

Name of issuing Bank  
.....Na  
me of Branch.....  
.....Address  
s.....  
..

In consideration of the Board of Trustees of the Port Kolkata, a body corporate duly constituted under the Major port Trust Act, 1963 ( Act 38 of 1963), having agreed to exempt Shri / Messrs.....a proprietary/Partne  
rship/Limited/Registered Company, having its Registered Office at.....

(hereinafter referred to as "The Contractor") from cash payment of Security Deposit /Payment of Security Deposit through deduction from the Contractors' bills under the terms and conditions of a contract made between the Trustees and the Contractor for

..... (write the name of the work as per Work Order) in terms of the Work order No .....

..... dated..... (hereinafter referred to as "the said contract"), for the due fulfillment by the contractor of all the terms and conditions contained in the said contract, on submission of a bank Guarantee for Rs

..... (Rupees .....

..... ) we,..... Branch, Kolkata...../Haldia, do on the advice of the contractor, hereby undertake to indemnify and keep indemnified the Trustees to the extent of the said sum of Rs..... (Rupees.....)

We..... Branch, Kolkata...../Haldia, further agree that if a written demand is made by the Trustees through any of its officials for honoring the Bank Guarantee constituted by these presents, We,..... Branch, Kolkata..... /Haldia shall have no right to decline to cash the same for any reason whatsoever and shall cash the same and pay the sums so demanded to the Trustees within a

week from the date of such demand by an A/c. Payee Banker's Cheque drawn in favour of 'Kolkata Port Trust', without any demur. Even if there be any dispute between the contractor and the Trustees, this would be no ground for us,.....  
.....(Name of Bank), .....  
..... Branch, Kolkata...../Haldia to decline to honour the Bank Guarantee in the manner aforesaid. The very fact that We, .....  
.....Branch, Kolkata ..... /Haldia, decline or fail or neglect to honour the Bank Guarantee in the manner aforesaid shall constitute sufficient reason for the Trustees to enforce the Bank Guarantee unconditionally without any reference, whatsoever, to the contractor.

2. We,..... Branch, Kolkata...../Haldia, further agree that a mere demand by the Trustees at any time and in the manner aforesaid, is sufficient for us, ..... Branch, Kolkata ..... / Haldia, to pay the amount covered by this Bank Guarantee in full and in the manner aforesaid and within the time aforesaid without reference to the contractor and no protest by the contractor, made either directly or indirectly or through Court, can be valid ground for us, .....  
..... Branch, Kolkata ...../Haldia, to decline or fail or neglect to make payment to the Trustees in, the manner and within the time aforesaid.

3. We, ..... Branch, Kolkata ...../Haldia, further agree that the Bank Guarantee herein contained shall remain in full force and effect, during the period that is taken for the due performance of the said contract by the contractor and that it shall continue to be enforceable till all the dues of the Trustees under and/or by virtue of the terms and conditions of the said contract have been fully paid and its claim satisfied and/or discharged in full and/or till the Trustees certify that the terms and conditions of the said contract have been fully and properly observed/fulfilled by the contractor and accordingly, the Trustees have discharged the Bank Guarantee, subject however, that this guarantee shall remain valid up to and inclusive of ..... day of ..... 19..... and subject also to the provision that the Trustees shall have no right to demand payment against this guarantee after the expiry of 6 (six) calendar months from the expiry of the aforesaid validity period up to ..... Or any extension thereof made by us, ..... Branch, Kolkata ...../Haldia, in further extending the said validity period of this Bank Guarantee on Non-Judicial Stamp Paper of appropriate value, as required/determined by the Trustees, only on a written request by the Trustees to the contractor for such extension of validity of this Bank Guarantee.

4. We, ..... Branch, Kolkata ...../Haldia, further agree that, without our consent and without affecting in any manner our obligations hereunder, the Trustees shall have the fullest liberty to vary from time to time any of the terms and conditions of the said contract or to extend the time for full performance of the said contract including fulfilling all obligations under the said contract by the contractor or to postpone for any time or from time to time any of the powers exercisable by the Trustees against the contractor and to forebear or enforce any of the terms and conditions relating to the said contract and We, ..... Branch, Kolkata ...../Haldia, shall not be relieved from our liability by reason of



any such variation or extension being granted to the contractor or for any forebearance, act or commission on the part of the Trustees or any indulgence by the Trustees to the contractor or by any such matter or thing of whatsoever nature, which under the law relating to sureties would, but for this provision, have effect of so relieving

us,..... Branch, Kolkata...../Haldia.

5. We ..... Branch, Kolkata ...../Haldia, lastly undertake not to revoke this Bank Guarantee during its currency except with the previous consent of the Trustees in writing.

SIGNATURE.....  
NAME.....  
DESIGNATION.....

(Duly constituted attorney for and on behalf of) BA

NK.....  
BRANCH.....  
Kolkata..... /HALDIA.

(OFFICIAL SEAL OF THE BANK)

## **Integrity Pact**

Between

Syama Prasad Mookerjee Port, Kolkata (SMPK) 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:

1. No employee of the Principal, personally or through 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.
2. 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 through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.

3. 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 through 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 principals, 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 through 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 Kolkata Prot Trust.
- (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 Syama Prasad Mookerjee Port,Kolkata 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.

8.a) The Name and Correspondence Particulars of Independent External Monitors:

- a) Shri Anand Deep; IRS (Retd)  
117/363, H — 1, Next to Gurdwara  
Pandua Nagar, Kanpur,  
Uttar Pradesh — 208 005  
Mobile : 9044797181  
Mail : anand.deep117@gmail.com 103
- b) Shri Bipin Behari Mallick, IAS, (Retd)  
293, Naval Technical Officers,  
CGHS, Sector-22  
Dwarka  
New Delhi-110077  
Mobile : 9643002222  
9968150900  
E-mail ID : bipinmallick@gmail.com

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 begins 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, SMPK.[]

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 remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.

(For & on behalf of the Principal)

(For & on behalf of Bidder/Contractor).

(Office Seal)

(Office Seal)

Place :

Date :

Witness 1:

(Name & Address) .....

.....

.....

Witness 2:

(Name & Address) .....

.....

.....