



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

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

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

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निविदा के लिए "नेताजी सुभाष गोदी में 4, एनएसडी मेन गेट का निर्माण, जिसमें 4 के बाहरी क्षेत्र का विकास, एनएसडी गेट, इलेक्ट्रिकल कार्य और अन्य संबद्ध कार्य, एसएमपी, कोलकाता शामिल हैं।"

TENDER FOR"Construction of 4, NSD Main Gate at Netaji Subhas Dock including development of Outside area of 4,NSD Gate, Electricals work and other allied works, SMP, Kolkata. "

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सिविल इंजीनियरिंग विभाग

श्यामा प्रसाद मुखर्जी पत्तन, कोलकाता

Civil Engineering Department

SYAMA PRASAD MOOKERJEE PORT, KOLKATA

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

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

Civil Engineering Department

सिविल इंजीनियरिंग विभाग

1.0 निविदा आमंत्रण सूचना / NOTICE INVITING TENDER

एनआईटी नं/NIT NO.: SMPK/KDS/CIV /T/2676/35 Dt. 13.05.2022

E-Tender is invited from reliable, bonafide & experienced agency with required experience as per Prequalification criteria stipulated in Tender Document for **“Construction of 4, NSD Main Gate at Netaji Subhas Dock including development of Outside area of 4, NSD Gate, Electricals work and other allied works, SMP, Kolkata.”** as per Bill of Quantities the Bid Document may be seen from the <https://kopt.enivida.in>. Corrigenda or clarifications, if any, shall be hosted on the above-mentioned website only. The tender is also published on SMPK website (www.smpportkolkata.shipping.gov.in).

निविदा की अनुसूची / SCHEDULE OF TENDER (SOT)

a. निविदा संख्या /TENDER NO.	SMPK/KDS/CIV /T/2676/35 DT. 13.05.2022
b. निविदा का तरीका /MODE OF TENDER	e-Procurement System (Online Two part Techno-Commercial Bid and Price Bid through Enivida Portal https://kopt.enivida.in/) The intending bidders are required to submit their offers electronically through e-tendering portal. No physical tender is acceptable by SYAMA PRASAD MOOKERJEE PORT, KOLKATA.
c.i) कार्य का अनुमानित लागत/Estimated Cost Of Work ii) अग्रिम धन जमा राशि/Earnest Money Deposit iii) निविदा दस्तावेज की कीमत/Tender Document fee (Non-refundable)	NA Rs. 10,99,770/- (Rupees Ten Lakh ninety nine thousand seven hundred seventy Only) The intending bidders should submit the tender cost of Rs.2950/- (Rupees two thousand nine hundred and fifty only) including @18% GST 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 Or payable through DD / RTGS / NEFT / Bank Transfer etc.,) to be transferred on A/C: Syama Prasad Mookerjee Port, Kolkata A/c. No: 067502000000491 IFSC: IOBA0000675 Bank Name: Indian Overseas Bank Branch Name: STRAND ROAD Branch

iv) रेलटेल टेंडर प्रोसेसिंग शुल्क/ Railtel Tender Processing Fee (Non-refundable) Mode of Payment: - E-payment Only through Debit/Credit Card or Net Banking.	4	TPF- 0.1% of estimate cost (Minimum 750/- Maximum 7500/-+GST Registration Charges Rs.2000/- +Applicable GST Per Year.
d. पार्टियों को डाउनलोड करने के लिए उपलब्ध एनआईटी की तिथि/Date of NIT available to parties to download		17.05.2022 to 07.06.2022 (up to 14:00 hrs.)
e. प्रीबिड मीटिंग की तिथि और समय/ Pre – Bid Meeting Date & Time		No Pre-bid meeting
f. अग्रिम धन तथा निविदा दस्तावेज की कीमत जमा करने की अंतिम तारीख/Last date of submission of EMD & Tender Document fee at Syama Prasad Mookerjee Port, Kolkata		10.06.2022 (up to 12:00 hrs.)
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		17.05.2022 (From 14:00 hrs. onwards)
h. ई-निविदा को ऑनलाइन जमा करने की अंतिम तिथि/Date of closing of online e-tender for submission of Techno-Commercial Bid & Price Bid.		07.06.2022 (Up to 15:00 hrs.)
i. ई-निविदा को खोलने की तिथि और समय/Date & time of opening of Techno-Commercial Bid		08.06.2022 (After 15:00 hrs.) (Only Techno Commercial Part)

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: - Annexure – D
(Document consisting Annexure A to Annexure D
To be treated as Techno Commercial Part)
Price Bid (Financial Part) : - Annexure – E
(Both the Techno Commercial Part &
Financial Part will be uploaded separately
& will be available both in the SMPK website
& Enivida Portal)
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

ANNEXURE-A**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. S.K.Halder, Superintending Engineer(Contract)

2. S. Das, Engineer(C), Mob.No. 9830621827

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

ई-मेल आईडी/E-mailIDs :- sk.halder@kolkataporttrust.gov.in

& ce@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&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. A declaration in this regard is to be made by the bidder.
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 Enivida Portal .
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 A declaration in this regard is to be made by the bidder.

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 techno-commercially 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 Envida Portal

Annexure –B**SYAMA PRASAD MOOKERJEE PORT, 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,**Head Office Building, 15, Strand Road, Kolkata 700 001 /**

प्रधान कार्यालय भवन, 15, स्ट्रैंड रोड, कोलकाता 700 001।

फोन नंबर / Phone no – **033 2230-3451** Extension: 398,399,400फैक्स/ Fax - **(033) 2230-0413**ई / मेल आईडी-**E-mail id:**sk.halder@kolkataporttrust.gov.in& ce@kolkataporttrust.gov.in**3.0 वाणिज्यिक नियम और शर्तें / Commercial Terms & Conditions**

SL. NO.	नियम /TERMS
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- 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 the Chief Engineer/**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 3 % 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.

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

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

Civil Engineering Department

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Office of the Chief Engineer / मुख्य अभियंता का कार्यालय,

Head Office Building, 15, Strand Road, Kolkata 700 001 /

प्रधान कार्यालय भवन, 15, स्ट्रैंड रोड, कोलकाता 700 001।

एनआईटी नं/ NIT NO.: SMPK/KDS/CIV /T/2676/35 Dt. 13.05.2022**NOTE:** निविदा दस्तावेज डाउनलोड करने की अंतिम तिथि /Last Date of **Download** of tender documents: **07.06.2022(upto 14.00 hours)**निविदा प्रस्तुत करने के कारण है/Tender is due for submission by **15.00 Hrs. On 07.06.2022**निविदा खुलने वाली है/ **Tender is due for opening after 15.00 Hrs. On 08.06.2022**तकनीकी वाणिज्यिक बोली /Techno Commercial Bid

नेताजी सुभाष गोदी में 4, एनएसडी मेन गेट का निर्माण, जिसमें 4 के बाहरी क्षेत्र का विकास,

एनएसडी गेट, इलेक्ट्रिकल कार्य और अन्य संबद्ध कार्य, एसएमपी, कोलकाता शामिल हैं।"

"Construction of 4, NSD Main Gate at Netaji Subhas Dock including development of Outside area of 4, NSD Gate, Electricals work and other allied works, SMP, Kolkata. "

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	:	"Construction of 4, NSD Main Gate at Netaji Subhas Dock including development of Outside area of 4, NSD Gate, Electricals work and other allied works, SMP, Kolkata. "
एनआईटी नंबर /NIT No	:	SMPK/KDS/CIV /T/2676/35 Dt. 13.05.2022
अनुमानित लागत Estimated Cost	:	NA
निष्पादन की अवधि/ Period of Execution	:	6 (Six) Months.
ईएमडी (बयाना राशि जमा)/बोली सुरक्षा/ EMD (Earnest Money Deposit)/ Bid Security	:	Rs. 10,99,770/- (Rupees Ten Lakh ninety nine thousand seven hundred seventy Only)
के डाउनलोड की अवधि ई-निविदा (दोनों दिन सम्मिलित) / Period of Download of E-Tender (Both Days Inclusive)	:	17.05.2022 to 07.06.2022 (UPTO 14:00 hrs.) (Bid document will be available on website https://kopt.enivida.in). Bidders will have to participate in bidding process through website https://kopt.enivida.in/) only.
प्री-बिड मीटिंग और साइट विज़िट के लिए दिनांक और समय / Date and Time for pre-bid meeting & site visit	:	No pre-bid meeting.
ई-निविदा जमा करने और निविदा खोलने की अंतिम तिथि/Last date of submission of e-tender and opening of the tender	:	प्रस्तुत करना /Submission on 07.06.2022 Up to 15:00 hrs. खुल रहा है /Opening on 08.06.2022 after 15:00 hrs. (Techno-Commercial Part only)
निविदा दस्तावेज की लागत (नॉन रिफंडेबल) / Cost of Tender Document (Non-refundable)	:	The intending bidders should submit the tender cost of Rs 2950/- (Rupees two thousand nine hundred and fifty only) including @18% GST 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
संपर्क व्यक्ति / Contact Person.	:	S.K.Halder, Superintending Engineer(Contract) S. Das, Engineer (C), Mob.No 9830621827 03371012486, 03371012398

4.0: बोलीदाता को निर्देश / INSTRUCTIONS TO BIDDER

E-TENDER FOR “Construction of 4, NSD Main Gate at Netaji Subhas Dock including development of Outside area of 4,NSD Gate, Electricals work and other allied works, SMP, Kolkata.”

निविदा के लिए "नेताजी सुभाष गोदी में 4, एनएसडी मेन गेट का निर्माण, जिसमें 4 के बाहरी क्षेत्र का विकास, एनएसडी गेट, इलेक्ट्रिकल कार्य और अन्य संबद्ध कार्य, एसएमपी, कोलकाता शामिल हैं।"

एनआईटी नं/ NIT NO.: SMPK/KDS/CIV /T/2676/35 Dt. 13.05.2022

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. 2018 –19,2019-20 and 2020-21**). **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.

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.-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 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** 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.

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E-TENDER FOR “Construction of 4, NSD Main Gate at Netaji Subhas Dock including development of Outside area of 4, NSD Gate, Electricals work and other allied works, SMP, Kolkata.”

निविदा के लिए "नेताजी सुभाष गोदी में 4, एनएसडी मेन गेट का निर्माण, जिसमें 4 के बाहरी क्षेत्र का विकास,

एनएसडी गेट, इलेक्ट्रिकल कार्य और अन्य संबद्ध कार्य, एसएमपी, कोलकाता शामिल हैं।”

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 override 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/Architectural Installation(Civil /Structural works only)”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.1,61,74,590.00**

Or(ii)02 (Two) completed works each costing not less than **Rs.2,02,18,240.00**

Or (iii)01 (One) completed work costing not less than **Rs.3,23,49,180.00**

And also bidder must have successfully completed **“Electrical Installation works of Buildings/Offices/Gates/Architectural Structural Installation”** 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.58,20,710.00**

Or(ii)02 (Two) completed works each costing not less than **Rs.72,75,890.00**

Or (iii)01 (One) completed work costing not less than **Rs.1,16,41,420.00**

ii) The Average Annual Financial Turnover of the bidding firm during the **last three years**, ending on **31-03-2021**, should be at least **Rs. 1,64,96,480.00** 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:

(The Part A and C-1 of the BOQ is Risk and Cost portion)

a) Civil Works (For ‘PART A’ & ‘PART B’ of BOQ):

The work comprises

- Earth work in excavation
- Dismantling work
- PCC and RCC Works
- Brickwork
- Filling, surface dressing, Soling,
- Flooring Works
- Controlled cement concrete (M25), shuttering, reinforcement, laying of polythene sheet, DPC,
- Fixing of kota stone, granite slab, vitrified tiles
- M.S Structural works,
- Wood work,
- False ceiling Works
- Plaster Work
- Painting, fixing of sun control glass
- Concrete kerb Work
- Aluminium works
- Providing sliding gate, telescopic gate, swing gate, hydraulic road blocker,
- Filling with fine sand,
- WBM Work

- Ready mix cement concrete (M40) and
- All plumbing and sanitary works
- Supply and Installation of Lift
- Etc. including all appurtenant works as described and set forth in the Bill of Quantities, Special Conditions of Contract, Technical Specifications of Works, Specification for Materials and Workmanship with all additional or varied works which may thereafter be required in accordance with Clause 7 of the General Conditions of Contract and as per the direction and up to the satisfaction of the Engineer.

b) Electrical Works (For 'PART C' of BOQ):

1. Supply, Installation, Testing and Commissioning of Indoor type, Floor mounting type, Bottom/Top entry LT Switchboards.
2. Supply and installation of Extension of Existing Panel Box with suitable rating MCCB incl. interconnection with suitable size of copper bus and cable, neutral link & provision for earthing attachment.
3. Supply and fixing of main Distribution panel as specified in BOQ.
4. Supplying and fixing of Double-door Horizontal TPN MCB Distribution board with IP-42/43 protection, concealed in wall after cutting the wall & mending good the damages to original finish incl. interconnection with suitable size of copper wire and neutral link & provision for earthing attachment as per BoQ.
5. Supplying and fixing Double-door SPN MCB Distribution Board with IP-42/43 protection, concealed in wall after cutting the wall & mending good the damages to original finish incl. inter connection with suitable size of copper wire and neutral link & provision for earthing attachment.
6. Supply & installation of AC-Timer DB as per BOQ.
7. Earthing of Equipment and installation including treatment of soil, construction of earthing pits incl. supply and connection of earth bus bar.
8. Supply of 1.1 kV grade XLPE insulated PVC sheathed aluminium/copper conductor of suitable sizes as specified in BoQ, from substation to main panel at site including making of trenching and micro-tunneling for laying of the cable as per site requirement. The work shall also include all labour, tools, tackles and survey of site.
9. Finishing of cables and wires with necessary glands and wire ends as specified in the BOQ.
10. Supplying & Fixing GI Modular Switch Board of different sizes complete with required accessories as per BoQ over the MS welded box incl. top cover flushed in wall for housing the board after cutting the brick wall incl. making earthing attachment, painting and mending good damages to building.

11. S&F of AC starter unit as per BOQ and making necy. connections with PVC Cu wire and earth continuity wire etc.
12. Supply & Fixing Modular type socket, switch, plug- top, regulator etc. and making necy. connections with PVC Cu wire and earth continuity wire etc.
13. Distribution wiring for lights, fans, sockets, switch boards, DBs, call bells etc. with suitable size copper wires as per BoQ.
14. Supply, installation, testing and commissioning of Light Fixtures/ fans with complete accessories in all respects as per Technical Specifications and BoQ.
15. Supply and fixing of Lightning Arrestor and accessories for its earthing.
16. Supplying, fabricating and fixing of MS Single Leaf Sliding Gate which is made by 96mm x 48mm x 3.2mm MS tubular section for main frame of YST 310 grade as per IS:4923 with fully covered by 2mm thick MS Sheet and MS tubular Supporting Post Structure and Bottom rail with ISMB-125 & 22dia Bright Rod with One coat of epoxy primer and two coats of PU finish paint (as per SMPK approved colour) with all mechanical accessories, i.e. Nylon Upper Guide Roller with bearing, Wheel assembly with double side bearing, End Catcher, Back Stopper, Locking assembly, Motor Base frame etc. and necessary cleats and insert plates complete as per BoQ.
17. Supplying, fabricating and fixing of MS Bi- parting Telescopic Gate which is made by 96mm x 48mm x 3.2mm MS tubular section for main frame of YST 310 grade as per IS 4923 with fully covered by 2mm thick MS Sheet and MS tubular Supporting Post Structure and Bottom rail with ISMB-125 & 22dia Bright Rod with One coat of epoxy primer and two coats of PU finish paint (as per SMPK approved colour) with all telescopic mechanisms & mechanical accessories, i.e. Nylon Upper Guide Roller with bearing, Wheel assembly with double side bearing, End Catcher, Back Stopper, Locking assembly, Motor Base frame etc. and necessary cleats and insert plates complete as per BoQ.
18. Supplying, fabricating and fixing of MS Double Leaf Swing Gate which is made by 96mm x 48mm x 3.2mm MS tubular section for main frame of YST 310 grade as per IS 4923 with fully covered by 2mm thick MS Sheet with One coat of epoxy primer and two coats of PU finish paint (as per SMPK approved colour) with all necessary mechanical accessories i.e. Hinges, Hatch Bolts, Locking assembly etc. as per BoQ.
19. Supply & Fixing of Automatic Gate Operators.
20. Electrical Work for laying of control cables for fixing of control switch, blinker, safety photocell for Automatic Single Sliding Gate & Automatic Bi-parting Telescopic Gate.
21. Supply& Fixing of Hydraulic Road Blocker.
22. Supply, delivery, installation and commissioning of SixPassengers Stainless Steel Auto Lift. The contractor shall also be responsible for obtaining all the statutory clearances required at the time of installation and commissioning of

the Passenger Lift. Cost of statutory clearances, if any, shall be included in the installation price.

23. Supply, installation and commissioning of Split ACs including all accessories as per site requirement.
24. Supply, installation & commissioning of Fire Alarm System.
25. Preparing and submitting of three sets of "As Executed" drawing.

Including all appurtenant works as described and set forth in, Bill of Quantities, Special Conditions of Contract, Technical Specification of works, 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 of the Contract. The intending tenderer shall inspect the site of work in consultation with the Engineer and acquaint himself with the nature of Work before preparing his tender. His attention is drawn to Clause No. 3.1 of the General Conditions of Contract in this regard. No excuse on ignorance as to the site 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, the 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.

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 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 safety requirements as per IS: 16103 (Part I) :2012 and also Code of Practice for fire safety of buildings (general): Electrical Installations, IS:1646: 1997. The fire alarm system must be planned, installed, operated and maintained in full protection in accordance with IS: 2189:2008 or latest amendment, if any.

The Electrical Cable Layout Drawings, Single Line Diagram of proposed new installation, Detail drawing of LT Panel etc. should be prepared by the Successful Tenderer and the same should be submitted to the Engineer for necessary approval, in triplicate, before installation. As- built, cable layout drawings includes cable routes so laid with reference to permanent installation en-route, clearly marking position of the cable there at showing distance from such references at a suitable interval, where so available are to be provided.

Cable:

Following size of XLPE insulated, armoured, overall PVC sheathed armoured Aluminium/ 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

- (i) 4C x 2.5 mm² XLPE insulated PVC sheathed armoured Cu conductor cable
- (ii) 4C x 10 mm² XLPE insulated PVC sheathed armoured Cu conductor cable
- (iii) 4C x 16 mm² XLPE insulated PVC sheathed armoured Al conductor cable
- (iv) 3.5C x 185 mm² XLPE insulated PVC sheathed armoured Al conductor cable

± 5% variation will be allowed as per practice.

It shall 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.

Cable Laying:

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.

Laying Underground:

Cable shall be laid generally in accordance with IS:1255-1983. The average depth of trench for laying cable shall be as below:-

- i) Directly on ground: 0.75 m.
- ii) At road crossing : 1.00 m.

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 on a cushion of sand, protected with bricks placed on both sides (along the length of the cable) and top (across the length of the cable). After laying of the cable the duct shall have to be filled up by sand. Where cables run in parallel, separate ducts as stated shall have to be provided. G.I. pipe shall have to be used where cable pass through walls, roads, drains, culverts, railway line etc. For one run of cable, one GI pipe is to be considered. In other words two or more run of cable will not pass through one pipe. The cable trench shall be filled back with riddled soil obtained from excavation. This shall be done in layers and compacted. Cable route marker shall have to be provided at a maximum distance of 50m.

Laying on wall or structure:

Where cable shall be laid on wall or structure, the cable shall be laid by using MS Clamp of adequate strength and size. The maximum distance between clamps shall not be more than 400mm. The cable shall run as straight as possible. During vertical run there shall be GI pipe protection of 1 meter from each floor level. When the cable

shall pass through wall/floor etc. pipe protection shall have to be given. Wherever cable shall be required to be laid inside the building, the cable shall be laid on perforated GI Tray of adequate size and mechanical strength. The tray shall be rigidly fixed on wall in a proper manner at suitable height using MS angle. The cable shall be fixed on tray using MS clamp of proper size and thickness at a distance should not be more than 300mm. In case cable passes from one building to another building; GI protection pipe of adequate size is to be provided with proper fixing. Neatness must be maintained.

Laying through existing trench:

Cable shall be laid through existing heavy duty RCC/ Hume Pipe/ GI Pipe / Open masonry trench inclusive supply of RC covers, if required, setting them in order, mending good the damages filling the open masonry trench with dry 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. After re-filling the trench with soil, rammed and levelled, Insulation Test of the cable should be carried out in presence of the Engineer. Any cable, which is found to be defective, should be replaced before the next group of cables is laid. All cables will be identified close to their termination points by Cable Number / Equipment Number, which will be punched on Aluminium Straps (approx. 2 mm. thick) securely fastened to the cable and wrapped around it. Type and size of the cable also to be punched on the Aluminium Straps. In unpaved areas, Cable Trenches should be identified by means of Cable Route Markers. These markers should be placed at location of changes in the direction of cables and at intervals of not more than 30 meters on fixed structure. All temporary ends of cables must be protected against dirt and moisture to prevent damage to the insulation. For this purpose, ends of the cables should be covered with PVC insulating tape.

Laying through Micro-Tunnel:

Cable should be laid through the Micro-tunnel to be made at site as per BoQ. Two inspection pits are to be made at each end of micro-tunnel as per BoQ.

Before energizing, the insulation resistance of every cable shall have to be measured. The contractor shall have to submit the detailed cable route diagram, with detailing of the Hume Pipes & G.I. Pipes used, position of the Straight- through Cable Joints etc. for checking at Engineer's end and subsequent approval of the same. As-built drawing (in triplicate) of the above cable route shall have to be submitted after completion of the above work. Cable length should be measured jointly prior to giving clearance for earth back filling etc.

Termination and Finishing :

Termination of cable shall have to be made by using suitable compression type cable gland and sockets by crimping to the size of the cable.

LT Distribution Board:

Distribution Board with IP-43 protection along with Incomers and Outgoings as specified in the BOQ is to be provided. Terminal and Interconnection with

suitable size of copper wire, extended terminals/spreader link sets and neutral link & provision for earthing attachment are to be provided.

Installation:

Such DBs are required to be installed flushed on the wall with double earth protection. They are to be Installed, Tested and Commissioned with suitable arrangement mending good the damages to the original finish.

Moulded Case Circuit Breaker (MCCB):

- a) Rated normal current: As per BOQ.
- b) Impulse Voltage: 8 kV
- c) Rated Operational Voltage : 690 V AC
- d) Insulation voltage: 750 V AC
- e) Rated Frequency: 50 Hz.
- f) Particulars of Specifications to be complied with: IS/IEC: 60947 - 2(2003) or latest amendment.
- g) Type of mechanism: Double Break Type.
- h) Number of poles: As per BOQ.
- i) Rated short-circuit breaking current for 1 second: As per BOQ.
- j) Rated service short-circuit breaking capacity (Ics) = Rated breaking capacity (Icu) =100%.

Exhaust Fan:

300 mm. Sweep, 1400 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.

Luminaries:

Luminaries should be as per BOQ. In addition to this, the following requirements are to be fulfilled.

- a. LED Manufacturer should have separate valid BIS registration number for both luminaire and driver. Driver should have the BIS registration in the name of the OEM of driver. Supporting documents is to be submitted.
- b. Rated Minimum life span of LEDs (L70B50) used in the Luminaire shall be greater than equal to 50,000 Hrs. TM-21 life projection calculation along with LM80 for all three ambient temperatures of 55, 85, 105 Deg. C as per applicable standard shall be submitted to substantiate that the life of LED Chip (L70B50) shall be more than 50000 burning hours.
- c. The LEDs shall comply with Photo biological safety norms as per IEC 62471/ EN 62471/ IS: 16108 and should fall in the exempt or low risk group of outdoor Luminaries.
- d. The luminaire shall have LM-79/IS: 16106:2012 test report from a NABL accredited lab.
- e. The LED luminaires shall have 60months warranty from the manufacturer from the date of commissioning.
- f. Make of SMD type Chip: Nichia, Osram, Lumileds (Erstwhile Philips Lumileds), Cree.
- g. Make of COB type Chip: Citizen, Bridgelux.

Installation:

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The above LED fittings and other accessories shall be installed on the wall/ceiling as per site requirement. Cost of round block/down rod/Chain for Down Light fittings should be included in the installation wherever required.

Split 1.5T Room Air Conditioner:

1.5T Split AC should have to be provided as per BOQ specifications. Remote Control with required no. batteries for each AC unit is to be provided.

Earthing:

All distribution boxes shall have to be earthed in accordance with the requirement of Indian Electricity Rules and IS: 3043. Interconnections of two earth stations have to be done by 25 x 6 mm GI flats.

Earthing Pits shall be provided with 50 mm dia GI pipe 3.64 mm thick x 3.00 Mts long and 1x4 SWG GI (Hot Dip) wire (4 Mts. Long), 13 mm dia x 80 mm long GI bolts, double nuts, double washers incl. S & F 15 mm dia GI pipe protection (1 Mt. long) to be filled with bitumen, partly under the ground level and partly above ground level driven to an average depth of 3.65 Mts. below the ground level & restoring surface duly rammed.

Masonry enclosure shall be provided on the top of earth electrode of overall size 86.36cm x 86.36cm x 46cm deep (below Ground level) complete with cemented brickwork (1:6) of 25 cm width duly plastered with cement-mortar (inside) CI hinged inspection cover of size 35.56 cm x 35.56 cm with locking arrangement, GI reducer including drilling of 46 nos 12 mm dia holes on the GI pipe and treatment of soil by using salt & charcoal or coke for plate electrode.

FIRE ALARM:

Fire Alarm Control panel:The Fire Alarm Control Panel should be completely modular system construction and should allow it to be used in almost any system, from small systems up to networked systems covering a large area.

Basic Configuration of Fire Alarm Control Panel shall include:

- Fully-redundant microprocessor technology. Full redundancy of the panel for backup in the event of an error. All hardware components of the devices as well as bus connections, shall be doubly (redundantly) laid out.
- Minimum 240 character display for displaying the system status in plain text (alarms, faults etc.).
- Each loop capacity should comprise a minimum of 198 addressable detectors & devices.
- Acoustic and optical alarm notification for alarms and faults.
- Self-testing cyclical test routines, with fully-automatic and detailed fault reporting.
- Possibility to manually test the control panel and its functions.
- Plain text indication of individual detectors and indicator zones.
- All modules shall be fully-redundant.
- Emergency power supply for a supply interruption period of 24 hours.

- One point monitoring for all detector zones.
- Alarm counter.
- Real time clock and Recognition and evaluation of the status of detectors along with this all other parameters that are required for making the addressable type control panel full proof should be maintained.

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 annunciate without the formation of smoke.
- Smoke and temperature sensors would be able to be activated and disabled separately.
- Automatic changeover based on time of day /season to season.
- The highest degree of safety should be maintained by detecting smoke particles of all sizes.
- 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. The sensitivity should always remain within the range set out in standards.
- Detectors should be capable of constant self-tests and should have resistant against environmental influences.
- Detectors shall have in-built over voltage protection.

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 a red 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 red in colour, 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

ADDRESSABLE CONTROL MODULE:

The control 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 operating ambient temperature range shall be -20 to +60°C.

RESPONSE INDICATOR:

The response indicators should have to be of approved quality. Dual LED should be there and should get 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 glands.

LIFT

No. of Elevator- 1 No. Passenger Elevator

Type & Capacity Passenger – 06 Persons (408 Kgs)

Speed- 0.63 Mtr/Sec (approx.)

Type of Drive- Variable Voltage Variable Frequency Drive with Microprocessor based Full Collective Control.

Machinery- Heavy Duty Permanent Magnet Gearless Synchronous Machine EcoDisc Drive with 95RPM

Location of Machine Room- TOP

Available Travel- 10 mtrs. (Maximum)

Serving- Ground Floor to 1st Floor

Well Size (Required) - 1600 MM Wide X 1475 mm Depth

Power Supply- 415 V three-phase 50 cycles alternating current

Auxiliary Required Single-phase- 220 V 50 cycles alternating current

Car Size (Clear Inside)- approx. 1000 MM Wide X 1050 mm Depth X 2200 mm Height

Required Pit Depth- 1600 mm (Mandatory)

Required Head Room- 4800 mm (Mandatory)

Car Enclosure- Painted Steel finish

Flooring- PVC

Electric Light Ceiling / Painted - (LED)

Fan- Axial Flow

No. of Entrances One Location – Front.

Car Entrance- Automatic Power Operated Centre Opening with Painted Steel Door without Vision Panel.

Landing Entrance- Automatic Power Operated Centre Opening with Painted Steel Door without Vision Panel.

Clear Opening- 700 mm Wide x 2000 mm High

MS Single Leaf Sliding Gate:

MS Single Leaf Sliding Gate shall be made by 96mm x 48mm x 3.2mm MS tubular section for mainframe of YST 310 grade as per IS 4923 with fully covered by 2mm thick MS Sheet and MS tubular Supporting Post Structure and Bottom rail with ISMB-125 & 22dia Bright Rod with One coat of epoxy primer and two coats of PU finish paint (as per SMPK approved colour) with all mechanical accessories, i.e.

Nylon Upper Guide Roller with bearing, Wheel assembly with double side bearing, End Catcher, Back Stopper, Locking assembly, Motor Base frame etc. and necessary cleats and insert plates

Clear Opening- 6500mm (W) x 2400mm

(H) Specifications of the Operator of the Gate areas follows:

- Max. Gate Weight : 1800Kg
- Operating Speed: 0.2 m/s
- Max Thrust Force : 1200 N
- Voltage Supply: 230V-50 Hz
- Current Absorbed: 3A
- Motor Power Supply: 24VDC
- Accessories Power Supply: 24V DC-0.5A
- Brake Control: Magnetic
- Force Adjustment Control: Transformer
- Rack Module: 4 Nos.
- Max Run: 20Mtr.
- Operating Temperature :-200 C to +550C
- Manual Opening: Key Operated

MS Bi-parting Telescopic Gate

MS Bi- parting Telescopic Gate shall be made by 96mm x 48mm x 3.2mm MS tubular section for main frame of YST 310 grade as per IS 4923 with fully covered by 2mm thk. MS Sheet and MS tubular Supporting Post Structure and Bottom rail with ISMB-125 & 22dia Bright Rod with One coat of epoxy primer and two coats of PU finish paint (as per SMPK approved colour) with all telescopic mechanisms & mechanical accessories, i.e. Nylon Upper Guide Roller with bearing, Wheel assembly with double side bearing, End Catcher, Back Stopper, Locking assembly, Motor Base frame etc. and necessary cleats and insert plates complete.

Clear Opening- 6500mm (W) x 2400mm (H) Specifications of the Operator of the Gate areas follows:

- Max. Gate Weight : 1000Kg
- Operating Speed: 0.1 -0.19 m/s (adjustable)
- Max Thrust Force : 1000 N
- Voltage Supply: 230V-50 Hz
- Current Absorbed: 2A
- Motor Power Supply: 24VDC
- Accessories Power Supply: 24V DC-0.5A
- Brake Control: Limit Switch & Virtual Encoder
- Force Adjustment Control: Transformer
- Rack Module: 4 Nos.
- Max Run : 20Mtr.
- Operating Temperature :-200 C to +550 C
- Manual Opening: Key Operated

Automatic Boom Barrier

- Boom Length: 3500mm-4500 mm(as per site conditions)
- Opening Time:4 Seconds
- Max Torque:90 Nm
- Power Supply:230V
- Power Absorbed:1.2A
- Travel Control System: Encoder
- Manual Operation:Key Operated
- Protection Grade: IP55

Hydraulic Road Blocker

- System Control Mode: Hydraulic Oil Control
- Max. Pressure: 80 Tons Container Truck
- System Power:3.7KW/380 V
- Hydraulic Tank Capacity: 80 litres-120litres (as suitable for site)
- Interception Length: 3000-3500 mm
- Control :Remote Control
- Lifting Height:500mm
- Material Thickness: 25mm thickness with remote controller, hydraulic station, manual pump,control box
- Electrical: All things are controlled by 3 Phase Controller to open lower the hydraulic road blocker.
- Mechanical:Unit consists of 3 Phase Motor,Hydraulic Pump and valve systems

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 MS 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.

List of Approved Makes

Item	Make
MCCB / MCB / DBs/Sub DBS/ Switch Fuse Unit/Main Switch/ Changeover switch	ABB/Siemens/ Havells/L&T/ Crompton / Legrand / any other reputed make
LED Luminaries	Philips/ Havells/ Crompton/ Wipro /any other reputed make
PVC Copper wire for internal wiring	Finolex/Havells/KEI/Polycab/Gloster/ any other reputed make
Switches/ Socket/Ceiling Rose/ Electronic regulator/ AC Starter	Havells/ Anchor/ ABB/ Crabtree/ Legrand/L&T/Rider/Sleek/any other reputed make
L.T. power cable	Finolex/Havells/KEI/Polycab/Gloster/

	any other reputed make
Ceiling Fan	Havells/Usha/Orient/Crompton Greaves/ Bajaj/ any other reputed make
Fire Alarm System	Schrack Seconet / Hochiki /Detectomat /Bosch/Honeywell (Notifier) or any other reputed make
Response indicator	Globe / Agni /Gent /Bosch or any other reputed make
G.I. Pipes	ITC / TATA / Jindal
Lift	Kone/Mitsubishi Electric/ Schindler /Otis /Hitachi/ Johnson or any other reputed make

- Items of any other make in addition to the make mentioned in the list of approved 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 and it should be duly signed and uploaded in the techno-commercial bid.
- 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 approved make items only.

If at any stage, it is found that the item offered with make other than approved 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 approved make with no additional cost.

Inspection and Testing: Inspection will be carried out by the Engineer or his representative as applicable as per relevant Standard/ Technical Specification/ Approved Drawing 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 cable (if any). All pre-commissioning tests shall be carried out by the authorized representative of the firm having valid Supervisor Certificate of Competency (SCC).

4.1.स्थान / LOCATION:

The work shall have to be executed at **Netaji Subhash Dock, 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 Gate No. 4 of Netaji Subhash Dock 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 **06(Six) 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.
- iii) 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. कॉन्ट्रैक्ट कीमत /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 कार्यो 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 exiting 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 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.

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, Bye laws 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 to be 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. દોષ દાયિત્વ અવધિ / 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 re-doing 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 त्रुटियाँ / 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 3 % 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.

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: STRAND ROAD Branch, Kolkata

The contractor shall be required to deposit an amount equal to 3% 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 guarantees 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).

[illegible]

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. 2018–2019, 2019-2020 and 2020-2021).The same should be audited as perrelevant 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

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 their EMD will be forfeited for such action.

NIT NO.SMPK/KDS/CIV /T/2676/35 Dt. 13.05.2022

**[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:.....

SYAMA PRASAD MOOKERJEE PORT, 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,

Head Office Building, 15, Strand Road, Kolkata 700 001 /

प्रधान कार्यालय भवन, 15, स्ट्रैंड रोड, कोलकाता 700 001।

एनआईटी नं/ NIT NO.: SMPK/KDS/CIV /T/2676/35 Dt. 13.05.2022**NOTE:** निविदा दस्तावेज डाउनलोड करने की अंतिम तिथि /Last Date of **Download** of tender documents :**07.06.2022(upto 14.00 hours)**निविदा प्रस्तुत करने के कारण है / Tender is due for submission by **15.00 Hrs.** On **07.06.2022**निविदा खुलने वाली है/ Tender is due for opening after **15.00 Hrs.** On **08.06.2022****मूल्य बोली /PRICE BID**

“Construction of 4, NSD Main Gate at Netaji Subhas Dock including development of Outside area of 4,NSD Gate, Electricals work and other allied works, SMP, Kolkata. ”

नेताजी सुभाष गोदी में 4, एनएसडी मेन गेट का निर्माण, जिसमें 4 के बाहरी क्षेत्र का विकास, एनएसडी गेट, इलेक्ट्रिकल कार्य और अन्य संबद्ध कार्य, एसएमपी, कोलकाता शामिल हैं।”

ANNEXURE-E (CONTD.)

E-TENDER FOR "Construction of 4, NSD Main Gate at Netaji Subhas Dock including development of Outside area of 4,NSD Gate, Electricals work and other allied works, SMP, Kolkata."

निविदा के लिए "नेताजी सुभाष गोदी में 4, एनएसडी मेन गेट का निर्माण, जिसमें 4 के बाहरी क्षेत्र का विकास, एनएसडी गेट, इलेक्ट्रिकल कार्य और अन्य संबद्ध कार्य, एसएमपी, कोलकाता शामिल हैं।

मूल्य बोली / PRICE BID

TENDER PARTICULARS

अनुमानित लागत/ Estimated Cost	NA
ईएमडी (बयाना राशि जमा)/बोली सुरक्षा/ EMD (Earnest Money Deposit)/ Bid Security	Rs. 10,99,770/- (Rupees Ten Lakh ninety nine thousand seven hundred seventy Only)
निविदा दस्तावेज की लागत(नॉन रिफंडेबल) / Cost of Tender Document (Non-refundable)	The intending bidders should submit the tender cost of Rs.2950/- (Rupees two thousand nine hundred and fifty only) including @18% GST 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/ TIME OF COMPLETION	6 (Six) Months.
के डाउनलोड की अवधि-निविदा(दोनों दिन सम्मिलित) / Period of Download of E-Tender (Both Days Inclusive)	17.05.2022 to 07.06.2022 (UPTO 14:00 HRS.) document will be available on website https://kopt.enivida.in . Bidders will have to participate in bidding process through website https://kopt.enivida.in /only.
प्री-बिड मीटिंग और साइट विज़िट के लिए दिनांक और समय / Date and Time for pre-bid meeting & site visit	No pre- bid meeting

<p>ई-निविदा जमा करने और निविदा खोलने की अंतिम तिथि/ Last date of submission of e-tender and opening of the tender</p>	<p>52 प्रस्तुत करना / Submission on 07.06.2022 Up to 15:00 hrs. खुल रहा है / Opening on 08.06.2022 after 15:00 hrs. (Techno Commercial Part only) (टेक्नो कमर्शियल पार्ट और फाइनेंशियल पार्ट दोनों एक ही तारीख को खोले जाएंगे)</p>
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SYAMA PRASAD MOOKERJEE PORT, 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,

Head Office Building, 15, Strand Road, Kolkata 700 001 /

प्रधान कार्यालय भवन, 15, स्ट्रैंड रोड, कोलकाता 700 001।

E-TENDER FOR “Construction of 4, NSD Main Gate at Netaji Subhas Dock including development of Outside area of 4, NSD Gate, Electricals work and other allied works, SMP, Kolkata.”

निविदा के लिए" नेताजी सुभाष गोदी में 4, एनएसडी मेन गेट का निर्माण, जिसमें 4 के बाहरी क्षेत्र का विकास, एनएसडी गेट, इलेक्ट्रिकल कार्य और अन्य संबद्ध कार्य, एसएमपी, कोलकाता शामिल हैं।"

एनआईटीन/ NIT NO.: SMPK/KDS/CIV /T/2676/35 Dt. 13.05.2022

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 ITEM RATE tender, the Bidder shall quote his rate item wise in the tender on line based on his own analysis. The total 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.

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

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

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एनआईटीनं/ NIT NO.: SMPK/KDS/CIV /T/2676/35 Dt. 13.05.2022

मात्रा का बिल /BILL OF QUANTITIES

<u>PART A: RISK & COST Estimate</u>					
Item No.	Description Of Item	Quantity	Rate Rs. P.	Unit	Amount Rs. P.
1.0	SECTION-1 BUILDING WORKS EARTH WORK : Surface Dressing of the ground in any kind of soil including removing vegetation inequalities not exceeding 15 cm depth and disposal of the rubbish within a lead upto 75 m as directed.	1,140 Sqm		Per Sqm	
2.0	Earth work in excavation of foundation trenches or drains, in all sorts of soil (including mixed soil but excluding laterite or sandstone) including removing, spreading or stacking the spoils within a lead of 75 m. as directed. The item includes necessary trimming the sides of trenches, levelling, dressing and ramming the bottom, bailing out water as required complete. Depth of excavation not exceeding 1,500 mm. (at 1.5 m)	239.83 Cum		Per Cum	
2.1	Depth of excavation for additional depth beyond 1,500 mm. and upto 3,000 mm. but not requiring shoring.	251.42 Cum		Per Cum	
3.0	Earth work in filling in foundation trenches or plinth with good earth, in layers not exceeding 150 mm. including watering and ramming etc. layer by layer complete. (Payment to be made	353.98 Cum		Per Cum	

	on the basis of measurement of finished quantity of work) With earth obtained from excavation of foundation.				
4.0	Filling in foundation or plinth by silver sand in layers not exceeding 150 mm as directed and consolidating the same by thorough saturation with water, ramming complete including the cost of supply of sand. (payment to be made on measurement of finished quantity)	0Cum		Per Cum	
5.0	BRICKWORKS: Single Brick Flat Soling of picked jhama bricks including ramming and dressing bed to proper level and filling joints with local sand.	573.98 Sqm		Per Sqm	
6.0	Labour for laying single brick flat soling including ramming and dressing bed to proper level and filling joints with powdered earth.	573.98 Sqm		Per Sqm	
7.0	Brick work with 1st class bricks in cement mortar (1:4). In superstructure, ground floor	197.28Cum		Per Cum	
8.0	125 mm. thick brick work with 1st class bricks in cement mortar (1:4) in ground floor.	99.18 Sqm		Per Sqm	
9.0	Cement concrete with graded stone ballast (40 mm size excluding shuttering) In ground floor. Pakur Variety 1:3:6 proportion	67.51Cum		Per Cum	
10.0	Ordinary Cement concrete (mix 1:2:4) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement, if any, in ground floor as per relevant IS codes. Pakur Variety	1Cum		Per Cum	
11.0	Controlled Cement concrete with well graded stone chips (20 mm nominal size) excluding shuttering and reinforcement with complete design of concrete as per IS : 456 and relevant special publications, submission of job mix formula after preliminary mix design after testing of concrete cubes as per direction of Engineer-in charge. Consumption of cement will not be less than 300 Kg of cement with Super plasticiser per cubic meter of controlled concrete but actual consumption will be determined on the basis of preliminary test and job mix formula. In ground floor and foundation.[using concrete mixture] M 25 Grade Pakur Variety	102.82Cum		Per Cum	

11.1	Add extra over the rate of ground floor for basement and above ground floor Upto 4 th floor.	70Cum		Per Cum	
12.0	Supplying, fitting and fixing Fan Hook for ceiling with 1 metre long 16mm. dia rod complete including mending damages. Payment for damage and repair to be made separately	4 Nos		Each	
13.0	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) Above 30 mm & upto 37 mm thick wooden shuttering as per decision & direction of Engineer-In-Charge.	2,587.84 Sqm		Per Sqm	
14.0	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, basement and upto roof of ground floor/upto 4 m Tor steel/Mild Steel SAIL/TATA/RINL	23.94 MT		Per MT	
15.0	FLOORING :A. ORIGINAL WORKS :25mm. thick damp proof course with cement concrete with stone chips (1:1.5:3) [with graded stone aggregate 10 mm nominal size] and admixture of water proofing compound as per manufacturer's specification followed by two coat of polymer based paint, (1st coat after 4 to 5 days of concrete laying and 2 nd coat just before brick masonry work) as directed (cost of water proofing compound & polymer based paint to be paid separately).(Chequering not required over concrete or painted surface). [Note: - Waterproofing as per item 9, polymer based paint as per item 8 (a) of subhead C of Section (C).	100 Sqm		Per Sqm	
16.0	Supplying and laying Polythene Sheet (150gm / sq.m.) over damp proof course or below flooring or roof terracing or in foundation or in foundation trenches.	1256 Sqm		Per Sqm	

17.0	18 mm. to 22 mm. thick, kota stone slab set in 20 mm thick (avg) cement mortar (1:4) in floor, stair & lobby including pointing in cement slurry with admixture of pigment matching the stone shade, including grinding & polishing as per direction of Engineer - in - charge to match with the existing work. [Slurry for bedding @ 4.4 kg/Sq.m and pointing @2.0 kg/Sq.m]	545 Sqm		Per Sqm	
18.0	Extra cost of labour for prefinished and premoulded Nosing to treads of steps, railing, window sill etc. of Kota Stone.	90Mtr		Per Mtr.	
19.0	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 0.6 to 1.0 Square meter.	27 Sqm		Per Sqm	
19.1	Add extra for each addl, floor over the rate for Ground Floor (I) upto 4 the floor	3 floors		Per Floor	
20.0	Supplying and laying true to line and level Double Charge Vitrified Tiles of approved brand conforming to IS 15622: 2006 (Group B I a) and tested as per IS 13630:2006 (relevant parts) [Non-modular sizes for tiles with Water Absorption (av.) $\leq 0.08\%$] in floor, skirting etc. set in 20 mm thick sand cement mortar (1:4) bed prepared after application of slurry using 1.75Kg of cement per Sqm over the base and 2mm thick cement slurry using cement @2.91Kg./sqm at the back side of the tiles and laid over the mortar bed using 0.2 kg/sqm of White cement used for joint filling with approved pigment as directed and removal of wax coating of top surface of tiles with warm water and polishing the tiles using soft and dry cloth upto mirror finish complete including the cost of materials,labour and all other incidental charges complete true to the manufacturer's specification and direction of Engineer-in-Charge. (Note: This work should not be executed without specific permission of Superintending Engineer)In Ground Floor:(size not less than 800mmX 800 mm X 10.2 mm thick)	140 Sqm		Per Sqm	

20.1	Add extra for each addl, floor over the rate for Ground Floor (I) upto 4 the floor	3 floors		Per Floor	
21.0	<p>WATERPROOF TREATMENT: Supplying and laying standard four course bituminous water proofing treatment as per specification laid down in I.S. 1346 - 1991 to be finished with pea size gravel including necessary preparatory works such as shaping mouth of outlets, cutting as and where necessary and refilling with sand and Cement mortar (4:1) or Cement Concrete (1:2:4) with graded stone chips before undertaking the treatment including cutting grooves in parapet and inserting edge of felt and mending good damage complete in all respect as per direction of Engineer - in - Charge including cost of all materials and labours and incidental charges but excluding the cost of Cement Mortar or concrete required for levelling and grading. (In sloped roof Course sand of approved varieties is to be used in place of Pea size gravels as fourth and final course.)</p> <p>i) 1st and 3rd Course with bonding materials of hot applied industrial blown type bitumen of grade 85/25 or 90/15 conforming to I.S.702 - 1988 @ 12Kg/10Sqm on each layer.</p> <p>ii) 2nd course with Hessian base self finished bitumen type3 Gr.-I conforming to I.S. 1322-1993 (weighing 23kg/10Sqm gross with bitumen content 12.10kg/10Sqm) tested under the provision of I.S. 13826 - 1993 part VII</p> <p>iii) 4th course with washed and clean pea sized gravel or grit @ 0.006 cum/Sqm. Over Flat Roof</p>	60 Sqm		Per Sqm	
21.1	Over Slopped Roof	845 Sqm		Per Sqm	
22.0	<p>ORIGINAL WORKS:M.S. structural works in columns, beams etc. with simple rolled structural members (e.g. joists, angle, channel sections conforming to IS: 226, IS: 808 & SP (6)-1964 connected to one another with bracket, gussets, cleats as per design, direction of Engineer-incharge complete including cutting to requisite shape and length, fabrication with necessary bolting, metal arc welding conforming to IS: 816- 1969 & IS: 1995 using electrodes of approved make and brand conforming to IS:814- 2004, haulage, hoisting and erection all complete. The rate includes the cost of rolled steel section, consumables such as electrodes, gas and hire charge of all tools and plants and labour required for the work including all incidental chages such as electricity charges, labour insurance charges</p>	0 MT		Per MT	

	etc. 61				
	<p>Payment to be made on the basis of calculated weight of structural members only in finished work as per IS specified weight. Payment for gusset, bracket, cleat, rivets, bolts and nuts may be made by adding the actual weight of such items with the weight of finished structural members or 7% of weight for finished structural members weighing not less than 22.5 Kg. / m. or 15 % of weight for finished structural members weighing less than 22.5 Kg. / m. may be increased allow for bracket, cleat, rivet, bolts and nuts etc. and no separate payment being made for these items, as per direction of Engineer In Charge. The rates are considered for a height of erection 8m. / 2nd floor level from the ground. Add 1.5% extra over the rate for each additional floor or 4m. beyond initial 8m. or part thereof. For built up sections / structural members of specified sections weighing not less than 22.5 Kg./m upto 8 m</p>				
22.1	Add for height beyond 8 m upto 12 m	0 MT		Per MT	
22.2	Add for height beyond 12 m upto 16 m	0 MT		Per MT	
23.0	<p>M.S. structural works with hollow sections (square or rectangular shape) conforming to IS: 806-1968 & IS:1161-1998) connected to one another with bracket, gusset, cleat as per design, drawing & direction of Engineer-in-Charge complete including cutting to requisite shape & size, fabrication including metal arc welding conforming to IS: 816-1969 & IS: 9595 using electrodes of approved make and brand conforming to IS:814- 2004, haulage, hoisting and erection all complete. The rate includes the cost of all M.S. Hollow section, all consumables such as electrodes, gas and hire charges of all tools and plants and labour required for execution and all incidental charges (such as electricity, labour insurance) etc. complete. Payment to be made on the basis of calculated weight of structural members of MS Hollow Section as specified in relevant IS code in finished work. Payment for gusset, bracket, cleat may be made by adding the actual weight of such items with weight of finished structural members. The rates are considered for a height of erection 8 m. / 2nd floor level from the ground. Add 1.5 % extra over the rate for each additional floor or 4m. beyond the initial 8 m. or part thereof.</p>	5 MT		Per MT	

	For other structural works like gallery etc.				
24.0	G. WOOD & PVC WORKS: A. DOOR WINDOW FRAME: Wood work in door and window frame fitted and fixed in position complete including a protective coat of painting at the contact surface of the frame excluding cost of concrete, Iron Butt Hinges and M.S clamps. (The quantum should be corrected upto three decimals). Sal : Siliguri.	0.16Cum		Per Cum	
25.0	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. 35 mm thick shutters (single leaf)	12 Sqm		Per Sqm	
26.0	Supplying, fitting and fixing M.S. clamps for door and window frame made of flat bent bar, end bifurcated with necessary screws etc. by cement concrete (1:2:4) as per direction. (Cost of concrete will be paid separately) 40mm X 6mm, 250mm Length	36 Nos		Each	
27.0	Iron butt hinges of approved quality fitted and fixed with steel screws, with ISI mark. 100mm. X 75mm. X 3.50mm.	18 Nos		Each	
28.0	Iron socket bolt of approved quality fitted and fixed complete 150mm long x 10mm dia bolt.	6 Nos		Each	
29.0	a) Iron hasp bolt of approved quality fitted and fixed complete (oxidised) with 16mm dia rod with centre bolt and round fitting. 300mm long.	6 Nos		Each	
30.0	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 round base: 150 mm grip x 12 mm dia rod.	14 Nos		Each	
31.0	Supplying, fitting fixing Godrej type hydraulic (oil check) floor door spring, heavy duty double action with brass shoe, brass top centre aluminium top cover etc. complete set as per direction of Engineer-in-charge.	8 Nos		Each	

32.0	F. FALSE CEILING: M.F. suspended ceiling made with 12.5 mm thick Gypsum plaster board including G.I. perimeter channel of 0.55 mm flush (having two flanges 20 mm and 30 mm respectively and web 27 mm) along with perimeter of ceiling with G.I. intermediate channel of 0.9 mm thick size 45 mmx15mm placed at 750 mm c/c with G.I. ceiling angle of size 25 mmx10mmx0.55 mm thick fixed to the ceiling with G.I. Cleat and steel expansion fastener ceiling section 0.55 mm thick of size 51.50 mmx26mm fixed to the intermediate channels with the help of connecting clip and in the direction of perpendicular to the intermediate channel of 300 mm c/c 12.5 mm thick Gypsum plastered board are to be fixed under ceiling section as above by machine screws. The boards are to be joined and finished with jointing compound, paper tape and application of top coat etc. as per the direction of Engineer-in-charge. (The rate includes of cost of all materials including taxes, cost of accessories, fittings and fixtures, scaffolding and labour charges etc. complete) In ground floor	140 Sqm		Per Sqm	
33.0	H. ADDITIONAL RATE: Add extra over rate of ground floor Upto 4th floor	140 Sqm		Per Sqm	
34.0	I. PLASTERING, POINTING ETC.A. ORIGINAL WORKS: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 (Ground floor).[Excluding cost of chipping over concrete surface]With 1:6 cement mortar 20 mm thick plaster	900 Sqm		Per Sqm	
34.1	With 1:4 cement mortar 15 mm thick plaster	900 Sqm		Per Sqm	
34.2	With 1:3 cement mortar 10 mm thick plaster	850 Sqm		Per Sqm	
35.0	Rule pointing to brick work in cement mortar (1:4) with admixture of pigment to match with colour of brick including raking out joints.	700 Sqm		Per Sqm	
36.0	B. MISCELLANEOUS ITEM: Labour for Chipping of concrete surface before taking up Plastering work	850 Sqm		Per Sqm	

37.0	J. WHITE WASH, COLOUR WASH& DISTEMPER : A. ORIGINAL WORKS: 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 thoroughly, complete as per manufacturer's specification and as per direction of the EIC. (In Ground Floor) (b) Two Coats Water based interior grade Acrylic Primer	1750 Sqm		Per Sqm	
37.1	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 thoroughly, complete as per manufacturer's specification and as per direction of the EIC. (In Ground Floor) Two Coats	900 Sqm		Per Sqm	
38.0	Protective and Decorative Acrylic exterior emulsion paint of approved quality, as per manufacturer's specification and as per direction of Engineer-in-Charge to be applied over acrylic primer as required. The rate includes cost of material, labour, scaffolding and all incidental charges but excluding the cost of primer. Premium 100% Acrylic Emulsion Two Coats	900 Sqm		Per Sqm	
39.0	K. PAINTING, VERNISHING ETC. ORIGINAL WORKS: Priming one coat on steel or other metal surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc.	24 Sqm		Per Sqm	
40.0	Priming one coat on timber or plastered surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc.	2,200 Sqm		Per Sqm	
41.0	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 : On timber or plastered surface : With super gloss (hi-gloss) – Two coats (with any shade except white)	24 Sqm		Per Sqm	
41.1	On steel or other metal surface :With other than hi-gloss of approved quality- Two coats (with any shade except white)	2,200 Sqm		Per Sqm	

41.2	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) Luxury Quality(Two coats)	1,750 Sqm		Per Sqm	
42.0	L. GLAZIER'S WORK: A. ORIGINAL WPRLS: 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) Superior Quality : Film Thickness - 2.0 Mil, Glare Reduction > 75%, U factor < 1.03, Emissivity < 0.70	164.14 Sqm		Per Sqm	
43.0	DRAIN, DOWN PIPES, CHIMNEY ETC. Supplying, fitting & fixing UPVC pipes A- Type and fittings conforming to IS:13592-1992 with all necessary clamps nails, including making holes in walls, floor etc. cutting trenches in any soil through masonry concrete structures etc if necessary and mending good damages including joining with jointing materails (Spun Yarn, Valamoid/Bitumen/M-Seal etc) complete. UPVC Pipes: 110 mm. Dia.	50Mtr		Per Mtr.	
43.1	UPVC Fittings: Plain Tee 110 mm. Dia.	8 Nos		Each	
43.2	Plain Y 110 mm. Dia.	8 Nos		Each	
43.3	Bend 87.5 degree 110 mm. Dia.	8 Nos		Each	
43.4	Shoe 110 mm. Dia.	8 Nos		Each	

44.0	SOLING, EDGING & METALING: Providing and fixing at or near ground level precast cement concrete in kerbs (size: 450 mm x 350 mm x width 150 mm at bottom with bevelled nosing at top) of cement concrete M20 Grade without reinforcement, fixing as per approved pattern and setting in position at site after preparing the bed grade and slopes by laying Cement concrete with jhama khoa (1:4:8) as per specification and direction of Engineer-in Charge including filling of joints with 10 mm thick cement mortar (3:1) and back filling the vertical piece properly with earth duly compacted and curing the mortar joints for at least 3 days including cost and carriage of all materials complete.	250Mtr		Per Mtr.	
45.0	Supplying cinder including throwing spreading rough levelling and dressing. (Measurement will be taken on the basis of profile, before and after the work with deduction of 1/9 th of the volume for sinkage and / shrinkage).	173Cum		Per Cum	
46.0	Labour for taking out old soling edging including removing debris. Single flat soling	1,200 Sqm		Per Sqm	
47.0	ALUMINIUM WORKS : 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 composite 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). 15 Micron colour anodizing. Rimless door. Top & bottom rail.	40Mtr		Per Mtr.	
48.0	Labour charge for fabrication and installation of composite door, window, partitions made from anodized extruded alloy aluminium sections for the following units: Fully glazed single leaf reamless swing door made of anodized aluminium alloy extrusions fabrication after cutting to proper shape and size, drilling and aligning fitted with heavy duty hydraulic action floor spring with top pin assembly and fitted with inbuilt locking arrangement and all other necessary fittings, fixture, adhesives and joineries, cutting the glass to requisite shape and size mounting the edges for fitting the same with dry set neoprine/EPDM gasket.	8 Sqm		Per Sqm	

	The rate includes the hire charge of all tools and plants, adhesive, joineries but excludes the cost of extruded aluminium sections, glass, panel boards EPDM gasket, locking arrangement, weather gasket / wool pile, floor spring, top pin, handle, tower bolt etc.				
48.1	Supplying bubble free float glass of approved make and brand conforming to IS: 2835-1987. 12mm thick coloured / tinted / toughened glass conforming to IS: 2553-1992 (Part-II)	35 Sqm		Per Sqm	
49.0	Supplying profiles of required section made of Aluminium Alloy Extrusion conforming to IS: 732-1983 and IS: 1285-1975; Anodised with required film thickness and specified colour/natural matt finished conforming to IS: 1868-1983 for fabrication of Structural Glazing, Curtain Wall 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).15 micron colour anodising Structural glazing /Curtain WallMulion& Transom (Weight @ 1.819 Kg Per Mtr.)	405Mtr.		Per Mtr.	
49.1	Sub frame for fixing Glass (Weight @ 0.31 Kg per Mtr.)	60Mtr.		Per Mtr.	
50.0	Supplying Weather Silicone sealant of approved make and brand for fixing of groove line between the Glasses as per direction of Engineer-incharge. for Structural Glazing/Curtain wall. Weather Silicone sealant for filling the Groove line between Glasses or any other material for facial work	930Mtr.		Per Mtr.	
51.0	Supplying bubble free float glass of approved make and brand conforming to IS: 2835-1987 Clear, toughened glass conforming to IS: 2553-1992 (part-II) 6mm thick	165 Sqm		Per Sqm	
52.0	Providing and fixing of factory made uPVC Sliding window (White Colour) complete, (U value=1.9-1.3 W/m ² K, flame resistant, self extinguishing, lead free) comprising uPVC multi-chambered frame having in-built uPVC roller track on top and uPVC sash with wall thickness of 2.3mm (±0.2 mm) duly reinforced with G.I. section 1.6 mm (±0.2 mm), wherever required. All corners of frame and sash will be fusion welded. After placing 5 mm Clear Annealed glass in the sash, uPVC glazing bead, interlock, EPDM gasket, brush shall be provided including touch lock and rollers & proper drainage system shall be provided. Window frame will be fixed to the wall with	30 Sqm		Per Sqm	

	100mm long and 8mm dia. Fastener 68 and after fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size, of approved quality complete in all respect as per as per approved drawing & direction of Engineer-In-Charge. (Note: Profile manufacturer & Window Manufacturer must be one & same, Only manufacturer Waranty is acceptable) 2 Track 2 Sash window frame of size 67 x 54 mm & Sash of size 64 x 47 mm both having wall thickness of 2.3 ± 0.2 mm				
53.0	Providing and placing structural metal decking system of grade TR60 as per JSW structural metal decking ltd or approved equivalent of nominal thickness 0.90 mm R.C.C having maximum thickness of slab 130 mm and entire process of fixing of deck materials as per manufacturer's specifications	709 Sqm		Per Sqm	
54.0	Providing and fixing 12mm thick machine compressed clay and burnt brick tiles of size 250 mm x 75 mm of Shree Balaji tile company or approved make in skirting, risers of steps and dados fixed with tile fixing adhesive of Sika / Pidilite make and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete as per drawing & direction of the Engineer in charge.	465 Sqm		Per Sqm	

55.0	<p>Providing and fixing of false ceiling with powder coated exposed G.I. grid suspension system (E-Grid T 2430 or equivalent load carrying capacity with mid span deflection not exceeding 1/360 span with hanger spacing of 1200mm c/c) consisting of Main Runner 3600 mm long, Cross Tee 1200 mm / 600 mm long and Wall Angle. The Wall Angle shall be fixed on PVC Dash Fasteners on the perimeter of the wall by steel screws with distance 300mm c/c. The Main Runners to be placed @ 1200 mm. The Cross Tee 1200mm will be inserted in the pre-cut slots of Main Runner at regular interval of 600 mm to form a modular grid of 1200mm X 600mm. Additional Cross Tees of 600 mm shall be placed perpendicular to the Cross Tee 1200 mm long to finally form a grid of 600 mm X 600 mm. Grid of module size 600 mm X 600 mm shall be supported by 6 mm dia G.I. wire from purlins / soffit. 1 mm thick powder coated Aluminum perforated Metal False ceiling of 595 X 595 finished dimensions to be placed in the grids of the ceiling. All complete as per the drawing & directions of Engineer-in-charge at all heights as per the designs. 1 mm thick powder coated Aluminum plain / perforated Metal False ceiling of 595 X 595 finished dimensions.</p>	700 Sqm		Per Sqm	
56.0	<p>Supply, Fabrication, Installation, Testing (onsite water tightness), Projection, Cleaning & Handover of respective cladding made of ALUMINIUM profile sheet (minimum 1.5 mm thick) with ANIDISED coating. The thickness of the coating of Aluminium shall be minimum 25 MICRON full height cladding maximum height 15 mtr and minimum 10.23 mtr. MS structure will cladd with 12 mm thk CEMENT FIBRE BOARD, and fixed with 38 x 6 mm ss screw grade 304, C-channels' made with SS sheet and wall thickness will be 2.5 MM thk for fixing of Aluminium cladding etc. The quoted rate shall include all Taxes, duties, and safety code compliance as required. Rates are inclusive of all accessories including labour & material.</p>	1030 Sqm		Per Sqm	
57.0	<p>Supplying, fitting and fixing brass ferrule including connection with G.I. pipes of TATA make of following dia. and upto 450 mm long with screw, jamnut, socket etc., complete in all respect, including cutting trenches in all sorts of soil and filling up the trenches as per direction of the Engineer - in - Charge. 25 mm dia.</p>	1 Nos		Each	

58.0	Supplying, fitting and fixing shower of approved brand and make. Chromium plated Rose shower with revolving joint and 150 mm long shower arm (Equivalent to Code No. 5489 & Model - Florentine of Jaquar or similar brand).	3 Nos		Each	
58.1	Chromium plated double coat Hook (Equivalent to Code No. 35761 & Model - KUBIX of Jaquar or similar).	3 Nos		Each	
58.2	Hand Shower(Health Faucet) with 1mtr Flexible Tube with Wall Hook(Equivalent to Code No.573 & Model -ALLIED of Jaquar or similar).	3 Nos		Each	
59.0	Supplying, fitting and fixing gunmetal wheel valve of approved brand and make tested to 21 kg per sq. cm. (for water lines only). 40 mm dia	1 Nos		Each	
59.1	32 mm dia	1 Nos		Each	
59.2	25 mm dia	1 Nos		Each	
59.3	20 mm dia	1 Nos		Each	
60.0	Supplying, fitting and fixing bib cock or stop cock. Chromium plated Bib Cock short body (Equivalent to Code No. 511 & Model - Tropical / Sumthing Special of ESSCO or similar brand).	3 Nos		Each	
60.1	Chromium plated Stop Cock (Equivalent to Code No. 513(A) & 513(B) & Model - Tropical / Sumthing Special of ESSCO or similar brand).	6 Nos		Each	
60.2	Chromium plated angular Stop Cock with wall flange (Equivalent to Code No. 5053 & Model - Florentine of Jaquar or similar brand).	4 Nos		Each	
61.0	Supplying, fitting and fixing C.I. holder bat clamp including cutting holes in wall etc. and mending good all damages in cement concrete with jhama chips (4:2:1) and cement plaster (6:1) to match and curing complete in all respect. 25 mm	30 Nos		Each	
61.1	32mm	10 Nos		Each	
61.2	40 mm	20 Nos		Each	

62.0	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, longscrow, 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 ground. (Payment will be made on the centre line measurements of total pipe line including all specials. No separate payment will be made for accesories, specials. For Exposed Work. CPVC Pipes Class-1, SDR-11.- 25 mm	20Mtr.		Per Mtr.	
62.1	32 mm	20Mtr.		Per Mtr.	
62.2	40 mm	50Mtr.		Per Mtr.	
62.3	For Concealed Work CPVC Pipes Class-1, SDR-11 15 mm	10Mtr.		Per Mtr.	
62.4	20 mm	40Mtr.		Per Mtr.	
63.0	Supplying, fitting and fixing white vitreous china best quality approved make 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 and painting the brackets with two coats of approved paint. 550 mm X 400 mm size	3 Nos		Each	
64.0	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. 300 mm long	6 Nos		Each	
65.0	Supplying, fitting and fixing approved brand 32 mm dia. P.V.C. waste pipe, with PVC coupling at one end fitted with necessary clamps. 750 mm long	6 Nos		Each	
66.0	Supplying, fitting and fixing complete Bottle waste trap (Heavy Quality) Chromium plated Bottle trap 32 mm with 190 mm long connecting pipe and wall flange (Equivalent to Code No. 545 & Model - Tropical / Sumthing Special of ESSCO or similar brand).	3 Nos		Each	

67.0	Supplying, fitting and fixing pillar cock of approved make. CP Pillar Cock - 15 mm. (Code No. 5011 & Model - FLORENTINE of JAQUAR or equivalent).	3 Nos		Each	
68.0	Supplying, fitting & fixing Cast iron soil pipe only conforming to I.S. 3989 / 1970 and I.S. 1729/1964 with bobbins, nails etc. including making holes in the wall, floor etc. and cutting trenches etc. in any floor through masonry concrete, if necessary, and mending good damages with necessary jointing materials and painting two coats to the exposed surface with approved paint complete. (Measurement will be made along the center line of the total pipe line in fitted condition including specials, payment for specials & Painting will be paid seperately). With valamoid joints including sealing with sand cement mortar (4:1) upto quarter depth. 100 mm dia. (internal)	20Mtr.		Per Mtr.	
68.1	75 mm dia. (internal)	50Mtr.		Per Mtr.	
69.0	Supplying, fitting & fixing Cast iron single branch equal with door conforming to I.S. 1729/1970 including joining and painting two coats to the exposed surface with approved paint complete. (Payment of Painting will however be paid seperately). With valamoid joints including sealing the top with cement mortar (4:1) 100 mm dia.	2 Nos		Each	
70.0	Supplying, fitting & fixing H.C.I. bend with door conforming to I.S.S. including jointing complete and painting two coats to the exposed surface with approved paint complete. (Payment of Painting will be paid seperately). With valamoid joints including sealing the top with cement mortar (4:1) 100 mm dia.	6 Nos		Each	
71.0	Supplying, fitting & fixing approved patent vent cowl I.C.I. conforming to I.S.S and painting two coats to the exposed surface with approved paint complete. (Payment of Painting will be paid seperately). 100 mm dia.	4 Nos		Each	
72.0	Supplying, fitting and fixing cast iron 'P' or 'S' trap conforming to I.S. 3989/ 2009 and 1729/ 2002 including lead caulked joints and painting two coats to the exposed surface. (Painting to be paid seperately). 'P' Trap 50 mm	3 Nos		Each	

73.0	Supplying, fitting and fixing with 73 cement jointing (3:1) salt glazed stoneware pipe including excavation of earth upto 1.50 metre depth in all sorts of soil both mixed or unmixed and refilling (but excluding concreting at bottom and sides). 300 mm	30Mtr.		Per Mtr.	
74.0	Supplying, fitting and fixing C.I. round grating. 100 mm	6 Nos		Each	
75.0	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. 470 mm X 280 mm X 340 mm	3 Nos		Each	
76.0	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. 450 mm X 300 mm	3 Nos		Each	
77.0	Supplying, fitting and fixing glass shelf with aluminium guard rails. (a) Ordinary type with 5.5 mm sheet glass (b) 600 mm X 125 mm	3 Nos		Each	
78.0	Supplying, fitting and fixing soap holder. PTMT(Prayag or equivalent)	3 Nos		Each	
79.0	Supplying, fitting and fixing towel rail with two brackets. C.P. over brass 25 mm dia. and 450 mm long	3 Nos		Each	
80.0	Constructing Inspection pit of inside measurement 600mm X 600mm X upto 600mm (depth) with 250 mm thick 1st. class brick work in cement mortar (1:4) on all sides, bottom of the pit consisting of 100 mm thick cement concrete (1:3:6) with stone chips over a layer of jhama brick flat soling, 15 mm thick (1:4) cement plaster to inside walls and outside walls upto G.L. and 20 mm.thick (1:4) plaster to bottom of the pit, providing necessary invert with cement concrete (1:3:6) with stone chips as per direction, neat cement finishing to entire internal surfaces, top of the pit covered with 100 mm thick R.C.C. slab (1:1.5:3) with stone chips and necessary reinforcements upto 1% and shuttering including 6 mm thick cement plaster (1:4) in all external surfaces of the slab and one 560 mm dia. R.C.C. manhole cover of approved make supplied, fitted and fixed in the slab with necessary fittings, necessary earthwork in excavation in all sorts of soil, filling sides of the	10 Nos		Each	

	pit with earth and removing spoils after work complete in all respect with all costs of labour and materials. With Pakur variety.				
81.0	Supply, fitting & fixing of water closet & flushing cistern of HINDWARE, model no 20089 with all fixtures complete	3 Nos		Each	
82.0	Supplying, fabricating and fixing of MS Single Leaf Sliding Gate which is made by 96mm x 48mm x 3.2mm MS tubular section for main frame of YST 310 grade as per IS 4923 with fully covered by 2mm thk. MS Sheet and MS tubular Supporting Post Structure and Bottom rail with ISMB-125 & 22dia Bright Rod with One coat of epoxy primer and two coats of PU finish paint (as per KoPT approved color) with all mechanical accessories, i.e. Nylon Upper Guide Roller with bearing, Wheel assembly with double side bearing, End Catcher, Back Stopper, Locking assembly, Motor Base frame etc. and necessary cleats and insert plates complete as per the proposal drawing which will be provided by Ascon. Clear Opening- 6500mm (W) x 2400mm (H)	1 Nos		Each	
83.0	Supplying, fabricating and fixing of MS Bi-parting Telescopic Gate which is made by 96mm x 48mm x 3.2mm MS tubular section for main frame of YST 310 grade as per IS 4923 with fully covered by 2mm thk. MS Sheet and MS tubular Supporting Post Structure and Bottom rail with ISMB-125 & 22dia Bright Rod with One coat of epoxy primer and two coats of PU finish paint (as per KoPT approved color) with all telescopic mechanisms & mechanical accessories, i.e. Nylon Upper Guide Roller with bearing, Wheel assembly with double side bearing, End Catcher, Back Stopper, Locking assembly, Motor Base frame etc. and necessary cleats and insert plates complete as per the proposal drawing which will be provided by Ascon. Clear Opening- 6500mm (W) x 2400mm (H)	1 Nos		Each	

84.0	Supplying, fabricating and fixing of MS Double Leaf Swing Gate which is made by 96mm x 48mm x 3.2mm MS tubular section for main frame of YST 310 grade as per IS 4923 with fully covered by 2mm thk. MS Sheet with One coat of epoxy primer and two coats of PU finish paint (as per KoPT approved color) with all necessary mechanical accessories i.e. Hinges, Hatch Bolt, Locking assembly etc. as per the proposal drawing which will be provided by Ascon. Clear Opening- 4000mm (W) x 2400mm (H)	1 Nos		Each	
85.0	Supply of Automatic Single leaf Sliding Gate Operator – 1no. Make – DITEC (Italy) Model – Cross 18VE Including : 1. 1 no. Push Button. 2. 1 no. Remote Control with Receiver Card. 3. 1 pair Safety Photocell. 4. 1 no. Flusher/ Blinker. 5. 8 nos. Module-4 Gear Racks with fixing studs.	1 Nos		Each	
86.0	Supply of Automatic Bi- Parting Telescopic Gate Operator – 2nos. Make – DITEC (Italy) Model – Neos 1000EH Including: 1. 1 no. Push Button. 2. 1 no. Remote Control with 2nos. Receiver Card. 3. 1 pair Safety Photocell. 4. 1 no. Flusher/ Blinker. 5. 6 nos. Module-4 Gear Racks with fixing studs.	1 Nos		Each	
87.0	Electrical Work for laying of control cables for fixing of control switch, blinker, safety photocell for Automatic Single Sliding Gate & Automatic Bi-parting Telescopic Gate.	1 Nos		Each	
88.0	Installation Charges for Automatic Sliding Gate, Automatic Bi- parting Telescopic Gate & Manual Double leaf Swing Gate including Loading, Unloading, Transportation.	1 Nos		Each	
89.0	a. Supply of Hydraulic Road Blocker : 5mtr Make- Toshi Automation Model-Toshi HRB (4 nos.) b. Electrical Work for laying of control cables fixing of Push Button of Hydraulic Road Blocker. (LS.) c. Installation Charges of 4 nos. Hydraulic Road Blockers. (LS.)	1 Set		Each Set	
90.0	6 passenger Stainless Steel Auto Lift along with transportation, installation	1 Nos		Each	

Development of area outside of 4 no. NSD main gate & rail gate, N.S.Dock.					
91.0	Earth work in excavation of the foundation tranches or drains in all sorts of soil (including mixed soil but excluding laterite or sand stone) including removing spreading or stacking the spoils within a lead of 75Mtr as directed. The Item including necessary trimming the sides of tranches, levelling, dressing and ramming the bottom, bailing out water etc. as required complete. Depth of excavation not exceeding 1500 mm.	25Cum		Per Cum	
92.0	Dismantling all types of plain cement concrete works, stacking serviceable materials at site and removing rubbish as directed within a lead of 75 m. in ground floor including roof. above 150 mm. thick	0Cum		Per Cum	
93.0	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.	1.61Cum		Per Cum	
93.1	Dismantle all types of Masonry excepting cement concrete plain or reinforced, stacking serviceable Materials at site & removing the rubbish as directed within a lead of 75 Mtr in ground floor including roof.	0Cum		Per Cum	
94.0	Filling in foundation or plinth by fine sand in layers not exceeding 150 mm as directed and consolidating the same by thorough saturation with water, ramming complete including the cost of supply of sand. (payment to be made on measurement of finished quantity),	45Cum		Per Cum	
95.0	Cleaning the concrete surface by removing dirt and debris, marking defective locations and removing loose concrete by careful stripping untill hard surface is exposed, cutting the concrete to regular shape, wire brushing the exposed surface and removing debris from site complete as per direction of the Engineer - in - Charge.	100 Sqm		Per Sqm	
96.0	Dismantling of flexible pavements and disposal of dismantled materials upto a lead of 100 m, stacking serviceable and unserviceable materials separately as per Technical Specifications Clause 202 for Rural Roads of MORD. By Manual Means Granular coarse	0Cum		Per Cum	
96.1	By Mechanical Means Bituminous Courses	0Cum		Per Cum	

97.0	Water Bound Macadam Base Course ⁷⁷ Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with vibratory roller 8-10 tonnes in stages to proper grade and camber, applying and brooming requisite type of screening / binding materials to fill up the interstices of coarse aggregate, watering including lighting, guarding, barricading and making necessary earthen bundh of one metre width on each side and preparing the bed by necessary cutting or filling, including cost of all materials and hire and labour charges of all men and machinery and compacting to the required density, as per Clause 404 of Specifications for Road & Bridge Works of MoRT&H (5th Revision).a) Grading-I Aggregate (63 mm to 45mm) using stone screening Type-B (11.2 mm) By Manual Means.	40Cum		Per Cum	
98.0	Supplying and laying Polythene Sheet (150gm / sq.m.) over damp proof course or below flooring or roof terracing or in foundation or in foundation trenches.	361.70 Sqm		Per Sqm	
99.0	Hire and labour charges for the shuttering with centering and necessary staging up to 4Mtr using approved stout props and 25 mm to 30 mm thick hard wood planked with required bracing for concrete slabs beams, columns, lintels curved or straight including fittings, fixing and striking out after completion of the works (up to roof of ground floor) as per the direction of Engineer – In – Charge. Steel shuttering or 9 to 12 mm thick approved quality ply board shuttering in any concrete work	50 Sqm		Per Sqm	
100.0	Provide 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. SAIL / TATA / RINL	7.82MT		Per MT	
101.0	Ordinary Cement concrete (mix 1:2:4) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement,if any, in gound floor as per relevant IS codes. Pakur Variety	2.96Cum		Per Cum	

102.0	Labour for laying soiling with departmental concrete block(200x100x100)mm collected from dumping location ,carriage of same with a lead up to 5.00 Km from loading area including loading, unloading and stacking at working site also preparation of bed as necessary concrete block joints properly filled in and packed with conc. Block joints properly filled in earth all complete as per direction of Engineering in Charge(Rates includes cleaning of existing concrete block surfaces). Single concrete block flat soiling (Thickness 100mm)	200 Sqm		Per Sqm	
103.0	Supplying ready mixed concrete of M 40 Grade with well graded stone chips of 20 mm nominal size containing designed quantity of cement per Cu.m of wet concrete produced in computerised batching plant under controlled condition using approved super plastisizer, designing concrete mix following I.S. 10262 and I.S. 456, transporting the mix with agitation in transit mixer to work site depositing the mix on a platform erected for the purpose at required levels of concreting and then placing the mix in its final location of form work, compacting and curing the same complete as per specification & direction of the Engineer-in-charge including computerised batching plant transit mixer with all accessories vibrators etc. inclusive of all other incidental charges in this connection complete but excluding cost of hire charge of platform and its supporting staging which would be paid through separate item.[cement to be supplied by the Manufacturer/ supplier]In ground floor and foundation. Without approved concrete pump.	120Cum		Per Cum	

104.0	M.S. structural works in columns, beams etc. with simple rolled structural members (e.g. joists, angle, channel sections conforming to IS: 226, IS: 808 & SP (6)- 1964 connected to one another with bracket, gussets, cleats as per design, direction of Engineer-in-charge complete including cutting to requisite shape and length, fabrication with necessary bolting, metal arc welding conforming to IS: 816- 1956 & IS: 1995 using electrodes of approved make and brand conforming to IS:814- 1957, haulage, hoisting and erection all complete. The rate includes the cost of rolled steel section, consumables such as electrodes, gas and hire charge of all tools and plants and labour required for the work including all incidental charges such as electricity charges, labour insurance charges etc. Payment to be made on the basis of calculated weight of structural members only in finished work as per IS specified weight. Payment for gusset, bracket, cleat, rivets, bolts and nuts may be made by adding the actual weight of such items with the weight of finished structural members or 7% of weight for finished structural members weighing not less than 22.5 Kg. / m. or 15 % of weight for finished structural members weighing less than 22.5 Kg. / m.	0.20MT		Per MT	
105.0	Provide and lay bricks work with 1st class bricks in cement mortar (1:6). In foundation and plinth	5Cum		Per Cum	
106.0	Provide and lay 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 (Ground floor).[Excluding cost of chipping over concrete surface] 15 mm. thick plaster with 1:6 Cement mortar	82.14 Sqm		Per Sqm	
107.0	Provide and lay Neat cement punning about 1.5mm thick in wall,dado,window sill,floor etc. Note: cement 0.152 Per Cum per 100 sq. Mtr.	82.14 Sqm		Per Sqm	
108.0	Cleaning rubbish, sludge, liquid earth, mud , debris and other materials etc. from kutcha/Pucca surface drain of any size and upto 1.8 m deep including stacking the spoils within a lead of 75 mt by manual means.(Payment will be made on the basis of actual measurements of spoils in dry condition).	100Cum		Per Cum	

109.0	Supply Air Compressor Machine including labour ,operator, fuel permit etc. for 8 hours	2 Days		Per Day	
110.0	Providing and laying reinforced cement concrete pipe NP4 with spigot socket for culverts on first class bedding of granular material in double row including fixing with cement mortar 1:2 as per Technical Specification Clause 1106 for Rural Roads of MORD. 600 mm dia	30Mtr		Per Mtr.	
111.0	Labour charges for levelling dressing the existing uneven metal surface by manul means and watering and rolling sub grade by power roller to proper camber and grade including watering as per direction and satisfaction of Engineer -In-Charge for proper consolidation and to make the surface properly for further any layer.	400 Sqm		Per Sqm	
112.0	Supply & spreading ShaliFloor MDH metallic floor hardening compound at the surface of the concrete for heavy traffic yard after compaction but before its finishing to increase resistance to abrasion & resistant to mechanical wear and the hardener should be compacted with a power trowel / floater. Broom or line texturing in transveres direction shall be provided at the surface after finishing and floating .	400 Sqm		Per Sqm	
113.0	Providing and laying sealing compound (polysulphide sealent) of approved make & manufacture in joints of concrete pavement as per drawing including applying a coat of sealent primer of approved brand with top as concave surface having 3mm depression in the middle of the joint including cost of backer rod of size 10 mm dia at the bottom of the groove (size 8.0 to 10.0 mm wide and 22.00 mm deep)including cost of all accessories , all materials , transportation, cleaning of joints by blower all complete including application by a authorizedapplicater or the manufacturer as per manufacturer's specification all complete.	120Mtr		Per Mtr.	
114.0	Provide and apply two coats decorative cement based paint of approved quality after preparing the surface including scraping the same thoroughly (Plastered or concrete surface) as per manufacturer's specification. In ground floor.	200 Sqm		Per Sqm	

115.0	Cutting / Cleaning/Removing jungle 81 Including area of dock and removing spoil up to uprooting/Removing of rank vegetation, cutting grass, brush wood, cutting/removing small tree saplings or branches of trees falling under the cutting area at different 50 m outside the periphery of the area cleaned as per direction including all lead , lifts cutting instruments , labour etc complete in all respect.	500 Sqm		Per Sqm	
		TOTAL of PART-A Rs.			
PART-B: Additional item of works to be executed ,Civil					
1(a)	M.S. structural works in columns, beams etc. with simple rolled structural members (e.g. joists, angle, channel sections conforming to IS: 226, IS: 808 & SP (6)- 1964 connected to one another with bracket, gussets, cleats as per design, direction of Engineer-incharge complete including cutting to requisite shape and length, fabrication with necessary bolting, metal arc welding conforming to IS: 816- 1969 & IS: 1995 using electrodes of approved make and brand conforming to IS:814- 2004, haulage, hoisting and erection all complete. The rate includes the cost of rolled steel section, consumables such as electrodes, gas and hire charge of all tools and plants and labour required for the work including all incidental chages such as electricity charges, labour insurance charges etc.	120 MT		Per MT	
	Payment to be made on the basis of calculated weight of structural members only in finished work as per IS specified weight. Payment for gusset, bracket, cleat, rivets, bolts and nuts may be make by adding the actual weight of such items with the weight of finished structural members or 7% of weight for finished structural members weighing not less than 22.5 Kg. / m. or 15 % of weight for finished structal members weighing less than 22.5 Kg. / m. may be increased allow for bracket, cleat, rivet, bolts and nuts etc. and no seperate payment being made for these items, as per direction of Engineer In Charge. The rates are considered for a height of erection 8m. / 2nd floor level from the ground. Add 1.5% extra over the rate for each additional floor or 4m. beyond initiial 8m. or part thereof. For built up sections / structural members of specified sections weighing not less than 22.5 Kg./m. upto 8 m				

1 (b)	Add extra for height From 8 m to 12 82	50 MT		Per MT	
1 (c)	Add extra for height From 12 m to 16 m	30 MT		Per MT	
2	Filling in foundation or plinth by fine sand in layers not exceeding 150 mm as directed and consolidating the same by thorough saturation with water, ramming complete including the cost of supply of sand. (payment to be made on measurement of finished quantity)	50 Cum		Per % Cum	
3	Dismantle all types of Masonry excepting cement concrete plain or reinforced, stacking serviceable Materials at site & removing the rubbish as directed within a lead of 75 Mtr in ground floor including roof.	5Cum		Per Cum	
4	Dismantle all types of plain cement concrete works up to 150 mm thick stacking serviceable Materials at site and removing rubbish as directed within a lead of 75 Metre in ground floor including roof.	5Cum		Per Cum	
5	Dismantling of flexible pavements and disposal of dismantled materials upto a lead of 100 m, stacking serviceable and unserviceable materials separately as per Technical Specifications Clause 202 for Rural Roads of MORD. By Mechanical Means Bituminous Courses Road Schedule, It. No. 2.14, Page- 235	50Cum		Per Cum	
6	Provide iron butt hinges of approved quality fitted and fixed with steel screws, with I.S.I. Mark. 100mm. X 75mm. X 3.50mm.	20 Nos		Each	
7	Supplying, fitting & fixing UPVC pipes A- Type and fittings conforming to IS:13592-1992 with all necessary clamp nails, including Making holes in walls, floor etc. cutting trenches in any soil through Masonry concrete structures etc if necessary and mending good damages including joining with jointing Materials (Spun Yarn, Valamoid/bitumen/M-Seal etc) complete. UPVC Pipes: 110 mm. Dia	60Mtr		Per Mtr.	
8	Wood work in door and window frame fitted and fixed in position complete including a protective coat of painting at the contact surface of the frame excluding cost of concrete, Iron Butt Hinges and M.S clamps. (The quantum should	0.10Cum		Per Cum	

	be corrected upto three decimals). S. 33 Siliguri.				
9	Rendering the Surface of walls and ceiling with White Cement base WATER PROOF wall putty of approved make & brand.(1.5 mm thick)	900 Sqm		Per Sqm	
10	Priming one coat on steel or other metal surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc.	2200 Sqm		Per Sqm	
11 (a)	Applying Exterior grade Acrylic primer of approved quality and brand on plastered or concrete surface old or new surface to receive decorative textured (matt finish) or smooth finish acrylic exterior emulsion paint including scraping and preparing the surface thoroughly, complete as per manufacturer's specification and as per direction of the EIC. In Ground Floor	900Sqm		Per % Sqm	
(b)	Add extra over the rate of ground floor Upto 4th floor.	700Sqm		Per % Sqm	
12	Supplying & laying 3mm thick pre-fabricated plastomericwater proofing membrane conforming to EN 12311-1 &ASTMD 5147, manufactured with atactic poly propylene(APP) modified premium grade asphalt , specially reinforcedwith non-woven polyester core with polyester reinforcement@160 gms per sqm & both faces covered with thermo-fusiblepolyethylene film /Mineral on top face over a coat of primer@ 0.40 lit/sqm of manufacturer's specification on smooth, clean dry surface prepared wherever required.Lapjoint shall be provided of 75 mm in longitudinal & 100 mm in transverse direction and fused using LPG/ Propane torchemploying extra care ensuring full bondage, complete removal of entrapped air and sealing edges into grooves in appropriate manner as per direction of Engineer -in-chargeall complete including materials,labour and applicable taxes. (Payment shall be made on the basis of finished surface area.).Membrane Property: Softening Point > 150 deg C, Cold Flexibility < -6 deg C, Tensile Strength, N/cm : 600(longitudinal), 450 (transverse), Tearing Strength, N:300 (longitudinal), 200 (transverse)I/E/4	800Sqm		Per Sqm	

13 (a)	Supplying ready mixed concrete of M45 grade with well graded stone chips of 20 mm nominal size containing designed quantity of cement per cum of wet concrete produced in computerised batching plant under controlled condition using approved super plastisizer , designing concrete mix following IS 10262 and IS 456 transporting the mix with agitation in transit mixer to work site depositing the mix on a platform erected for the purpose at required levels of concreting and then placing the mix in its final location of form work, compacting and curing the same complete as per specification and direction of the Engineer-in-charge including computerised batching plant transit mixture with all accessories, vibrators etc inclusive of all other incidental charges in this connection complete but excluding cost of hire charge of platform and its staging which would be paid through separate item. (Cement to be supplied by the manufacturer supplier) In Ground Floor and Foundation Without approved concrete pump	230Cum		Per Cum	
(b)	Add extra over the rate of ground floor for basement and above ground floor Upto 4th floor.	110Cum		Per Cum	
14	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	100Cum		Per Cum	
15 (a)	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.). 40 mm	2 Nos		Each	
(b)	25 mm	3 Nos		Each	
16	Chromium plated Stop Cock (Equivalent to Code No. 513(A) & 513(B) & Model - Tropical / Something Special of ESSCO or similar	3 Nos		Each	
17	Chromium plated angular Stop Cock with wall flange (Equivalent to Code No. 5053 & Model - Florentine of Jaquar or similar brand).	5 Nos		Each	

18	<p>Supplying, fitting and fixing CPVC (Corroated Polyvinyl Chloride) pipes of approved make conforming to IS-15778: 2007 . with all necessary accessories, specials viz. socket, bend, tee, union, cross, elbo, nipple, longscrow, reducing socket, reducing tee, short piece etc. fitted with holder bats clamps, including cutting pipes, fitting, fixing etc. complete in all respect including cost of all necessary fittings as required, jointing materials 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 accesories, specials.</p> <p>For Exposed Work CPVC Pipes Class-1, SDR-11 25 mm dia</p>	10Mtr.		Per Mtr.	
19	<p>Supplying, fitting and fixing G.I. pipes of TATA make with all necessary accessories, specials viz. socket, bend, tee, union, cross, elbo, nipple, longscrow, reducing socket, reducing tee, short piece etc. fitted with holder bats clamps, including cutting 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 accesories, specials. Payment for painting will be made seperately)</p> <p>For Concealed Work 15 mm dia. medium quality</p>	50Mtr.		Per Mtr.	
20	<p>Supplying, fitting and fixing white vitreous china best quality approved make 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 and painting the brackets with two coats of approved paint. 550mmx400mm size. -White in colour</p>	1 Nos		Each	

21	Supplying, fitting & fixing Cast Iron single branch equal with door conforming to I.S. 1729/1970 including joining and painting two coats to the exposed surface with approved paint complete. (Payment of Painting will however be paid seperately). With valamoid joints including sealing the top with cement mortar (4:1) 100 mm dia.	1 Nos		Each	
22	Supplying, fitting & fixing Cast Iron "P" or "S" Trap conforming to IS 3989/1970 and 1729/1964 including lead caulked joints and painting two coats to the exposed surface (painting to be paid separately)without AS horn - 100 mm dia. "P" Trap.	6 Nos		Each	
23	Supplying, fitting and fixing Squatting plate with integral flushing in white vitreous chinaware of approved make in cement concrete (1:3:6) with jhama chips complete. (Payment of concrete will be paid separately)- 450 mm X 350 mm.	1 Nos		Each.	
24	Supplying, fitting and fixing liquid soap container.PTMT(Prayag or equivalent)	4 Nos		Each.	
25	Supplying, fitting and fixing E.W.C. in glazed vitreous chinaware of approved make complete in position with necessary bolts, nuts etc-with "P" trap. White in colour.	3 Nos		Each.	
26	Supply, fit & fix closet seat of approved make with lid and C.P. hinges rubber buffer and brass screw EPWC. Plastic (hallow type) white	3 Nos		Each.	
27	Supplying, fitting and fixing in position reinforced cement polymer concrete manhole /gully pit cover with matching frame. As per I.S-12592(M.D) 1 MT load bearing capacity round manhole cover provided with two lifter hook with matching frame of size Cover: 450 mm X 40 mm Frame : 540 mm X 80 mm Weight : 34 Kg. (approx) . Opening 360 mm Sec(B) (iv) Item- 8(vii), P-92	2 Nos		Each.	
28(a)	Labour for hoisting plastic water storage tank - upto 1500 litre capacity. (a) Upto 1st story from G.L.	2 Nos		Each.	

(b)	(b) Extra for each additional story	2 Nos		Each.	
29	Labour for punching hole in plastic water storage tank upto 50 mm dia.	6 Nos		Each	
30	Supplying P.V.C. water storage tank of approved quality with closed top with lid (Black) - Multilayer 1500 litre capacity	2 Nos		Each.	
31	Construction of circular soak well 2.5 metre deep in all types of sandy soils with dry brick work upto 1.6 metre from the bottom having 150 mm intermediate cement brick work (1:4) band all round and cement brick work (1:4) upto 0.90 metre from top with 20mm thick cement plastering (1:4) to inside face upto the depth of cement brick work, 15mm thick cement plaster (1:4) on outer face from top of the well upto G.L. and 6 mm thick cement plaster (1:4) on top of the R.C.C. cover slab including filling bottom 1.00 metre of inside of the well with brick metal (50 mm to 63 mm size) including R.C.C. cover slab of 100 mm thick with cement conc (1:1.5:3) with stone chips with necessary reinforcement and shuttering including one 560 mm dia. R.C.C. manhole cover (heavy type) of approved make supplied, fitted and fixed in the cover slab with necessary fittings, making necessary arrangements for pipe connections, excavation of well including shoring, dewatering and removing the excess earth from the premises as per direction complete in all respect with all costs of labour and materials. With 250 mm thick dry brick work and 250 mm thick cement brick work (1:6) and 1.00m inside dia. JSW/JSPL/SHYAM/ SRMB/BMASL /ELECTROSTEEL /SSL	1 Nos		Each	
32	Construction of septic tank of different capacities as per approved drawing with 1st class brick work in cement mortar (1:4) including two 560 mm dia. R.C.C. manhole cover (heavy type) of approved make supplied, fitted and fixed in the 100mm thick R.C.C (1:1.5:3) top slab with necessary fittings, 20mm thick cement plaster (4 : 1) with neat cement finish to the internal surfaces and 15 mm thick cement plaster (4 : 1) to outside wall upto 200 mm below G.L floor finished with 25 mm thick grey artificial stone over 100 mm thick R.C.C(1:1.5:3) bottom slab including	1 Nos		Each	

	supplying, fitting and fixing all necessary specials, fittings, S.W. tees, C.I. foot rest etc. including excavation earth in all sorts of soil, shoring, bailing out and pumping out water as necessary, ramming, dressing the bed and fefilling the sides of the tanks with earth, removing spoils, filling up the chamber with clear water, removing foreign materials from the chamber and including constructing attached inspection pit as per approved drawing and connecting all necessary pipes, joints etc. with internal plaster work and artificial stone flooring is to be done with admixture of water proofing compound @ 0.5% by weight of cement with all costs of labour and materials. Note:- (i) Finished level of Septic Tank should be 400 mm. from Ground Level. (ii) Height of 50 mm.,Ventilation pipe & Mosquito proof mesh, should be follwed as per IS:2470,Part-I. Payment will be made separetly on the basis of actual height based on relevant I.S.Code.For 30 users. With Pakur variety with JSW/JSPL/SHYAM/ SRMB/BMASL /ELECTROSTEEL /SSLPIbScd w.e.f. 01.11.2017- Sec B/B(IV)/3 (i) (A), Page-88 and 7th corrigenda addenda				
33	Supplying, fitting and fixing in position G.I. pipes of TATA make for underground works with all necessary accessories,specialsviz.socket, bend, tee, union, cross, elbow, nipple, short piece etc.including cost of all materials,jointing materials ,cutting pipes,makingthreads,cutting trenches upto 1.5 metre below surface in all sorts of soil and refilling the same as directed with two coats of painting on G.I. pipes and specials with bituminous paint complete in all respect. (Payment will be made on the centre line measurement of the total pipe line including all specials No separate payment will be made for accessories, specials.Payment for painting will be made seperately) 100 mm dia. medium quality Sec(A) (II) Item- 2 (ix),P-3	60Mtr		Per Mtr.	
	Part-B Total Rs.				
	: Total of Part-A+ Part-B				
PART C-I, Risk and Cost Estimate , Electrical					
Sl. No.	Description of Items	Qty.	Unit Rate	Unit	
1	ELECTRICAL INSTALLATION WORK FOR 4 NSD GATE AT KDS, KOPT MAIN PANEL : Incoming:	1 Set		PerSet	

	<p>1 No.— 200A, 4P MCCB (Icu=35/36 KA, Ics=100%, Icu)</p> <p>Microprocessor Release with Electrical interlocking arrangement and extended rotary operated mechanism.</p> <p>1Set(3 Nos.)-C1-1 Current Transformer</p> <p>1Set-C1 CT operated digital multifunction meter showing current, voltage and frequency.</p> <p>1Set – 3 Nos. R-Y-B Phase indication Lamp with HRC Fuse Protection.</p> <p>Bus Bar</p> <p>1 Set-3 Nos. 30mm x 5 mm and 1 No. 30 x 5 mm for neutral, tinned Cu busbars covered with colour coded MKV graded PVC sleeves, mounted on Porecleam/DMC/SMC Insulators, (500V, 400A rating) Outgoing</p> <p>5 Nos.-100A-415V,4PMCCB,Icu=25KA(C-Curve)</p> <p>Earth Bus Bar</p> <p>24 mm x 6 GI flat earth bus bar running along the base of the frame covering entire length of the panel with GI bolt and nuts and number of drilled holes as required for earth connection.</p> <p>1-Danger Board.</p> <p>Complete Board as stated above.(Non-scheduled Item).</p>				
2	<p>DISTRIBUTION BOARDS</p> <p>Supplying and fixing double door Vertical TPN MCB Distribution board for MCCB incomer with IP-42/43 protection, on angle iron frame on wall & mending good the damages to original finish incl. Inter connection with suitable size of copper wire and neutral link & provision for earthing attachment</p> <p>4 WAY TPN DB (Upto 250A)</p>	1No.		Per No.	
2.01	<p>Supplying and fixing double door Horizontal TPN MCB Distribution board with IP-42/43 protection, concealed in wall after cutting the wall & mending good the damages to original finish incl. Inter connection with suitable size of copper wire and neutral link & provision for earthing attachment. 4 WAY TPN MCB DB-Enclosure(607715)</p>	1No.		Per No.	
2.02	<p>8 WAY TPN MCB DB- Enclosure (607717)</p>	1No.		Per No.	
2.03	<p>Supplying and fixing 240/415 V MCB of Breaking capacity 10kA & C characteristics on din rail of existing DBs and necessary connection.</p> <p>6-32A SP MCB</p>	36Nos.		Per No.	
2.04	<p>63A TPN MCB</p>	2Nos.		Per No.	
2.05	xxxxx	3.380Nos.		Per No.	

3	<p>Earthing and Accessories:</p> <p>Earthing with 50 mm dia GI pipe 3.64 mm thick x 3.04 mtrs long and 1 x 4 SWG GI (Hot Dip) wire (4 mtrs long), 13 mm dia x 80 mm long GI bolts, double nuts, double washers including supply and fixing of 15 mm dia GI pipe protection (1 mtrs 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 and restoring surface duly rammed as below.</p> <p>For Soft Soil</p>	2 Sets		Per Set	
3.01	Treatment of soil by using salt and charcoal or coke for plate electrode (for soft soil/morrum soil).	2 Sets		Per Set	
3.02	Providing masonry enclosure on the top of the earth electrode of overall size 86.36 cm x 86.36 cm x 46 cm deep (below ground level) complete with cemented brick work (1:6) of 25 cm width duly plastered with cement mortar (inside) CI hinged inspection cover of size 36.56 cm x 35.56 cm with locking arrangement, GI reducer including drilling of 46 Nos 12 mm dia holes on the GI pipe.	2 Sets		Per Set	
3.03	<p>Connecting the equipments to earth bus bar including supply and fixing of GI (Hot Dip) wire of size as below on 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 the damages.</p> <p>6 SWG</p>	100Mtr		PerMtr	
3.04	8 SWG	50Mtr		PerMtr	
3.05	Supplying and fixing of earth bus bar of galvanized (Hot Dip) M S flat 40 mm x 6 mm on wall having clearance of 6 mm from wall including providing drilled holes on the bus bar complete with GI bolts, nuts, washers, spacing insulators etc, as required.	60Mtr		PerMtr	
4	<p>LT Cable and Accessories</p> <p>Supply of XLPE/PVC insulated, Armoured/ Unarmoured/ Flexible, Aluminiumconductor(all rates are excluding of vat).</p> <p>Power Cables</p> <p>4C x 16 Sq.mm Aluminium / A2XFY (For Lift)</p>	60Mtr		PerMtr	
4.01	3.5C x 70 sq mm armouredAluminium cable.	60Mtr		PerMtr	
4.02	3.5C x 120 sq mm armouredAluminium cable.	800Mtr		PerMtr	
4.03	4C x 10 sq mm armoured Copper cable.	20Mtr		PerMtr	
4.04	Laying on Wall / surface with Saddles / clamps	60Mtr		PerMtr	

	Laying of cable upto 3/4 core 25 sqmm on wall/surface incl. S & F MS saddles with earthing attachment in 10 SWG GI (Hot Dip) Wire, making holes etc. as necy. mending good damages and painting.				
4.05	Laying of cable above 3½ core 50 sqmm and upto 3½ core 90 sqmm on wall/surface including S & F MS clams with earthing attachment in 2 x 10 SWG GI (Hot Dip) Wire, making hole etc. as necy., mending good damages and painting	100Mtr		PerMtr	
4.06	Laying through RCC/Hume/GI Pipe Laying only Cable upto 50 sqmm through existing RCC/Hume/ GI Pipe/open masonry trench for single, 2, 3, 3½ & 4core.	20Mtr		PerMtr	
4.07	Laying of 3.5C x 120 sq mm armoured Aluminium cable through Micro tunneling	150Mtr		PerMtr	
4.08	Laying only Cable above 50 sqmm but not exceeding 400sqmm through existing RCC/Hume/ GI Pipe/ masonry trench for single, 2, 3, 3½ & 4core.	800Mtr		PerMtr	
4.09	Compression Glands : Supplying and fixing compression type gland complete with brass gland, brass ring & rubber ring for dust & moisture-proof entry of XLPE/PVC armoured cables as below : For 4 core 10 to 16 sqmm	10 Nos		PerNo.	
4.1	For 3.5 core 185 sqmm	2 Nos		PerNo.	
4.11	For 3.5 core 120 sqmm	2 Nos		PerNo.	
4.12	Finishing cable ends : Finishing the end of following XLPE/PVC armoured cables by crimping method incl. supplying and fixing solderless socket (Dowels make), tapes, anticorrosive paste & jointing materials : 4 core 10 sqmm cable	2 Set		PerSet	
4.13	4 core 16 sqmm cable	2Set		PerSet	
4.14	For 3.5 core 70 sqmm	2 Set		PerSet	
4.15	For 3.5 core 120 sqmm	2 Set		PerSet	
5	SWITCH BOARD & SOCKET OUTLETS: Supplying & Fixing GI Modular Switch Board of the following sizes complete with three no. suitable size Copper bar with holes (for Ph, N & E) fixed on bakelite/Hard Rubber insulator over the MS welded chairs incl. top cover flushed in wall for housing the board after cutting the brick wall incl. making earthing attachment, painting and mending good damages to building works.	18 Nos		Per No.	

	12 Module(2 Row)				
5.01	Supply & Fixing 240 V 6 A Modular type switch (Brand approved by EIC) on existing GI Modular type switch board having to cover plate and making necessary connections as required	10 Nos		PerNo.	
5.02	Supply & Fixing 240 V, 10 A, 2(Two) way Modular type switch (approved make) on existing GI Modular switch board having top cover plate and making necessary connections as required	10 Nos		PerNo.	
5.03	Supply & Fixing 240 V, 6A, 5 pin Modular type plug socket (Brand approved by EIC), without switch & plug top, on existing GI Modular type switch board with top cover plate and making necy. connections with PVC Cu wire and earth continuity wire etc	10 Nos		PerNo.	
5.04	Supply & Fixing 240 V, 16 A, 3 pin Modular type plug socket (Brand approved by EIC) with 16A Modular type switch, without plug top on 4 Module GI Modular type switch board with top cover plate flushed in wall incl. S&F switch board and cover plate and making necy. connections with PVC Cu wire and earth continuity wire etc.	15 Nos		PerNo.	
5.05	Supply & Fixing 240 V, 25A Modular type socket, 25 A, Modular type starter (Brand approved by EIC) with 25A Modular switch type DP MCB (C-Curve) and 6 Module GI Modular type switch board with 6 Module top cover plate flushed in wall incl. S&F switch board and cover plate and making necy. connections with PVC Cu wire and earth continuity wire etc.	24 Nos		PerNo.	
5.06	Supplying & Drawing 2-pair Telephone cables with high density polyethylene insulated solid annealed high conductivity bare copper of dia 0.5mm in prelaid PVC rigid conduit/ in polythene pipe embeded in wall.	350 Mtr		PerMtr	
5.07	Supply & Fixing 240 V, 25A Modular type socket, 25 A, Modular type starter (Brand approved by EIC) with 25A Modular switch type DP MCB (C-Curve) and 6 Module GI Modular type switch board with 6 Module top cover plate flushed in wall incl. S&F switch board and cover plate and making necy. connections with PVC Cu wire and earth continuity wire etc.	24 Nos		PerNo.	
5.08	Supplying & Drawing 2-pair Telephone cables with high density polyethylene insulated solid annealed high conductivity bare copper of dia 0.5mm in prelaid PVC rigid conduit/ in polythene pipe embeded in wall.	350Mtr		PerMtr	

5.09	Supply & Fixing Telephone socket Modular type (Brand approved by EIC) with PVC board and top cover plate on wall and making necessary connections & testing as required.	2 Nos		PerNo.	
5.1	Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing recessed PVC/Polythene conduit, as required.	60Mtr		PerMtr	
5.11	Supplying and fixing of following modular TV Antenna socket outlet on the existing modular plate and switch box including connections but excluding modular plate etc, as required.	4 Nos		PerNo.	
6	SUB-MAIN CIRCUIT & POINT WIRING : Distribution wiring in 1.1 KV single core stranded 'FR' PVC insulated & unsheathed copper wire (Brand approved by EIC) in 20mm size PVC rigid conduit 'FR' (Precision make) incl. necy. fittings as required 2 x 22/0.3 (1.5 sqmm) + 1 x 22/0.3 (1.5 sqmm)ECC	500 Mtr		PerMtr	
6.01	2 x 36/0.3 (2.5 sqmm) + 1 x 22/0.3 (1.5 sqmm) ECC [For Circuit & 16A Socket]	460Mtr		PerMtr	
6.02	2 x 56/0.3 (4 sqmm) + 1 x 36/0.3 (2.5 sqmm) ECC [For AC]	200Mtr		PerMtr	
6.03	3 x 84/0.3 (6 sqmm) + 2 x 56/0.3 (4 sqmm) ECC [For DB]	50Mtr		PerMtr	
6.04	POINT WIRING - MCB / Sensor Control Supply, Installation, Testing and Commissioning of point wiring using (3 x 1.5) Sqmm 1100V grade stranded FRLS wires of approved make drawn in 19 mm dia 2mm thick rigid PVC conduit of approved make including all conduit accessories such as bends, junction boxes etc., complete. The wiring shall be done in complete looping in system. The lighting control from MCBs/SB in DBs. The wiring shall be complete with ceiling roses, switches and all consumables. PRIMARY LIGHT POINT Primary light point means wiring from MCB control in DB/Switch board to the first lightpoint. For drops from the ceiling flexible conduit shall be included.	60 Nos		PerNo.	
6.05	SECONDARY LIGHT POINT Secondary light point means extension of light out let only from existing . Primary point to be controlled by the existing MCB of Primary point only. Ceiling flexible conduit shall be included at the	220 Nos		PerNo.	

	drop of light fixture.				
6.06	Distribution wiring in 1.1 KV grade 22/0.3 (1.5 sqmm) single core stranded 'FR' PVC insulated & unsheathed copper wire (Brand approved by EIC) in 20mm size PVC rigid conduit 'FR' (Precision make), with 1.1 KV grade 1 x 22/0.3 (1.5 sqmm) single core stranded 'FR' PVC insulated & unsheathed copper wire as ECC, to 6A 3 pin Modular type plug socket & switch on 4 Module GI switch board with 3/4 Module top cover plate on wall incl. necy. connection making earthing attachment, painting and mending good damages to building works. On Board	5 Points		PerPoint	
6.07	Average run 4.5 mtr	15 Points		PerPoint	
7	PVC conduit Supplying and fixing PVC Rigid Conduit 'FR' [Precision Make] on wall, ceiling and recessed with saddles and other accessories as required and mending good damages to building works. 20 mm size	500 RM		Per RM	
7.01	25 mm size	4006 RM		Per RM	
8	SUPPLY & FIXING OF LIGHTING FIXTURES AND FAN: Supply, installation, assembling, testing and commissioning of the following Light Fixtures with complete accessories, control gears, civil works complete in all respect as per technical specifications and drawings. The quoted rate shall be inclusive of fixtures and accessories including all necessary supports, brackets, down rods and painting etc. as required. 38W LED PANEL LIGHT (600 X 600) Fittings complete with all and duly interconnection wire. [Philips Cat No. CIRUS RC/SM 365/366] or equivalent].	112 Nos		PerNo.	
8.01	WALL MOUNTED LIGHT FIXTURES complete with all and duly interconnection wire. [Philips Cat No.SNF114 1xSONT250W NB] or equivalent].	28 Nos		PerNo.	
8.02	Supplying & Fixing bulk head light fitting (Havells make) with die cast aluminium housing & frosted glass on wall/ceiling incl. S&F 8watt CFL / 100 watts GLS lamp complete set.	2 Nos		PerNo.	
8.03	HIGH BAY LIGHT FIXTURES complete with all and duly interconnection wire.	28 Nos		PerNo.	
8.04	RECESSED MOUNTED LIGHT FIXTURES complete with all and duly interconnection wire.	30 Nos		PerNo.	
8.05	Supply, installation, testing & commissioning of 1 x60 W(min) decorative Post Top light fixture	10 Nos		PerNo.	

	with all required accessories complete in all respect as per technical specification, drawings & as required at site .				
8.06	Supply & fixing of 1200mm dia sweep 3 blade ceiling fan complete with all required accessories as per technical specification & drawings.	4 Nos		PerNo.	
8.07	Supply & Fixing 240V, Modular Socket (2 Module) type fan regulator (Step type) (Brand approved by EIC) on existing Modular GI switch board with top cover plate incl. making necy. connections etc.	4 Nos		PerNo.	
8.08	Fixing only fan clamp for RC ceiling as per specification after cutting the ceiling & binding with reinforcement and mending good the damages.	4 Nos		PerNo.	
8.09	Supply, installation, testing & commissioning of Recess Mounted LED light fixture with all required accessories complete in all respect as per technical specification, drawings & as required at site .	11 Nos		PerNo.	
8.10	Supply, installation, testing & commissioning of 1X12W down light fixture with all required accessories complete in all respect as per technical specification, drawings & as required at site .	15 Nos		PerNo.	
8.11	Supply, installation, testing & commissioning of Vetro Wall Sconce, 13W LED, light fixture with all required accessories complete in all respect as per technical specification, drawings & as required at site .	15 Nos		PerNo.	
9	Supply and fixing of Metal Boxes Supplying & Fixing sheet metal inspection box (16 SWG) of the following sizes flushed in wall by housing the same after cutting brick wall incl. making earthing attachment, painting and mending good damages to building works. 100 mm x 100 mm x 65 mm deep	20 Nos		PerNo.	
9.01	150 mm x 100 mm x 65 mm deep	30 Nos		PerNo.	
10	Supply and fixing of Bakelite Supply & Fixing bakelite / perspex top cover on existing switch board by Brass screws after making housing for switch by cutting bakelite / perspex cover and making necessary connections as required 100 mm x 100 mm x 65 mm deep	20 Nos		PerNo.	
11	Supply & fixing of addressable Photoelectric Smoke Detector, include base	14 Nos		PerNo.	
12	Supply & fixing of addressable Photoelectric Heat Detector, include base	10 Nos		PerNo.	

13	Supply & fixing of Four loop addressable Fire Alarm Control Panel, 198 points (99 detectors+99 devices), with backlight illumination, 2 Sounder circuits Requires network card	1 No		PerNo.	
14	Supply & fixing of addressable manual call point.	6 Nos		PerNo.	
15	Supply & fixing of addressable Loop isolation module.	4 Nos		PerNo.	
16	Supply installation and testing and commissioning of 2 x 1.5 sq.mm armoured cable for wiring of necessary sensing device to the panel with adequate size PVC casing / pipe with all sorts of fixing materials and accessories required.	200Mtr		PerMtr	
17	Supply and installation of response indicator	25 Nos		PerNo.	
18	Supply and installation of 4" x 4" metal Junction Box	25 Nos		PerNo.	
19	Supply & fixing of addressable Intelligent Wall Mounted Sounder	10 Nos		PerNo.	
20	ISI marked ABC type fire extinguisher conforming to IS: 13849 (5Kg)	15 Nos		PerNo.	
21	ISI marked CO2 type fire extinguisher conforming to IS: 2878 (4.5Kg)	15 Nos		PerNo.	
	Total of Part C1 (in Rs)				

Part- C-2 , Balance Items of Work to be executed , Electrical

1	Supply, Installation, Testing and Commissioning of Indoor type LT Switchboards, Floor mounting type, Bottom/Top entry. Ref enclosed SLD Enclosure: Compartmentalised Single front CRGO (Cold rolled grain oriented sheet steel) Doors: 2mm/Body: 2mm/Gland: 3mm/covers, partitions: 1.6mm IP class: IP52 for Indoor/IP65 with weather proof enclosure for outdoor Busbars: Copper Busbar supports: DMC/FRP/SMC Shade: Epoxy powder coated RAL 7032 Design: Modular type All panels shall have space heaters if required. Note: 1) All the breakers shall have potential free aux NO/NC contacts for ON, OFF, TRIP 2) All the breakers shall have spreaders/phase separators/RHOM/Pad lock/Door lock/trip free 3) Breakers shall have provision to add shunt trip 4) Insulated shrouding shall be provided for live parts 5) FRLS PVC copper wires shall be used for control wiring 6) CT's shall be provided with shorting terminals.				
1.1	<u>EXTENSION OF EXISTING PANEL</u>				
	Supplying, installation, testing and	2 Sets		Per set	

	commisioning of EXTENSION OF EXISTING PANEL BOX with 250A MCCB incl. Inter connection with suitable size of copper bus and/or cable with '96mm Digital Ammeter 0-250A, '96mm Digital Voltmeter 0-500V, Selector Switch, indication lamp[1 Set (3 Nos) R-Y-B Phase Indication Lights & 1 Set (3 Nos) ON-OFF TRIP Indication Lights], rotary handle & provision for earthing attachment (approved by EIC) .				
1.2	<u>MAIN LT DISTRIBUTION PANEL</u>				
	Nos - 250A, 4P MCCB (Icu=Ics=36 KA) Thermal-Magnetic Release with Rotary Handle Operated Mechanism (RHOM) ,Spreader Link (1 No feeder Spare). 3Set (9 Nos) - 250/5A, 15VA Class-1 CTs for Metering. 3 Nos - Class-1 CT Operated Multi functiondigital meter. 3 Sets (9 Nos) R-Y-B Phase Indication Lights 3 Sets (9 Nos) ON-OFF TRIP Indication Lights 1 set 'Type1+2 50ka 3P+N SPD				
	Bus Bar 3Nos 40x6 and 1No 30x6 Tinned Plated Cu Busbars for three phase & one neutral covered with PVC coloured coated heat shrinks sleeves. (415V, 250A rating).				
	Outgoing 1 No - 100A, 4P MCCB (25 KA) Thermal-Magnetic Release with Rotary Handle Operated Mechanism (RHOM) and Spreader Link. 10 Nos. - 63A, 4P MCCB (25 KA) Thermal-Magnetic Release with Rotary Handle Operated Mechanism (RHOM) and Spreader Link. 2 Nos. - 40A, 4P MCCB (25 KA) Thermal-Magnetic Release with Rotary Handle Operated Mechanism (RHOM) and Spreader Link. 4 Nos. - 32A, 4P MCCB (25 KA) Thermal-Magnetic Release with Rotary Handle Operated Mechanism (RHOM) and Spreader Link. 2 Nos - 32A, 230/240V, DP MCB, 10 KA Protection (C-Curve).				
	Earth Bus Bar 25 mm x 6 mm GI flat earth bus bar running along the base of the frame covering entire length of the panel with GI bolt and nuts and number of drilled holes as required for earth connection. 1 - Danger Board.	1 Set		Per set	
2	<u>DISTRIBUTION BOARDS</u>				
	Supplying and fixing double door Horizontal TPN MCB Distribution board with IP-42/43 protection, concealed in wall after cutting the wall & mending good the damages to original				

	finish incl. Inter connection with suitable size of copper wire and neutral link & provision for earthing attachment.				
2.1	4 Way TPN MCB DB with (IP 43) - Metal Door				
	Incoming 1 Nos - 63A FP MCB with 10kA Protection (C-Curve)				
	Outgoing 12 Nos - 6-32A SP MCB with 10kA Protection (C-Curve) Complete Board as stated above.	3 Nos		Each	
2.2	8 Way TPN MCB DB with (IP 43) - Metal Door				
	Incoming 1 Nos - 63A FP MCB with 10kA Protection (C-Curve)				
	Outgoing 24 Nos - 6-32A SP MCB with 10kA Protection (C-Curve) Complete Board as stated above.	3 Nos		Each	
2.3	4 Way VTPN MCB DB with (IP 43) - Metal Door (For Lift)				
	Incoming 1 Nos - 40A FP MCB with 10kA Protection (C-Curve)				
	Outgoing 3 Nos - 32A 4P MCB with 10kA Protection (C-Curve) 1 No - 32A 4P MCB with 10kA Protection (C-Curve) Complete Board as stated above.	1 No		Each	
2.4	Supplying and fixing double-door SPN MCB Distribution Board with IP-42/43 protection, concealed in wall after cutting the wall & mending good the damages to original finish incl. Inter connection with suitable size of copper wire and neutral link & provision for earthing attachment.				
	(2+4) WAY SPN MCB DB				
	Incoming 1 Nos - '32A DP MCB				
	Outgoing 4 Nos - 6A SP MCB with 10kA Protection (C-Curve) Complete Board as stated above.	9Nos		Per Nos	

2.5	<p style="text-align: center;">99</p> <p>Supply & installation (AC-Timer DB) of 12 hours automatic power switching controller for AC with electronic timer and manual in double door power coated MS box . The power controller will be required to regulate cyclic operation of 2 ACs at the interval of 12 hours and should include the following:i) One no. 32 Amps. double pole 100 mA sensitivity RCBOii) One no. 24Hrs Time Switch. iii) Two Nos. 4P A.C contactor with 2 NO contactsiv)Two Nos.20 Amps. DP MCB C series for 2 Nos. ACs v) Necessary interconnections. vi) two nos LED indicator for AC.</p>	1No		Per No	
3.0	<u>Earthing and Accessories</u>				
a)	Earthing with 50 mm dia ISI-Medium GI pipe 3.64 mm thick x 3.04 mtrs long and 1 x 4 SWG GI (Hot Dip) wire (4 mtrs long), 13 mm dia x 80 mm long GI bolts, double nuts, double washers including supply and fixing of 15 mm dia GI pipe protection (1 mtrs 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 and restoring surface duly rammed as below.				
i)	For Soft Soil	6 Sets		Per Sets	
b)	Treatment of soil by using salt and charcoal or coke for plate electrode (for soft soil/morrum soil).	6 Sets		Per Sets	
c)	Providing masonry enclosure on the top of the earth electrode of overall size 86.36 cm x 86.36 cm x 46 cm deep (below ground level) complete with cemented brick work (1:6) of 25 cm width duly plastered with cement mortar (inside) CI hinged inspection cover of size 36.56 cm x 35.56 cm with locking arrangement, GI reducer including drilling of 46 Nos 12 mm dia holes on the GI pipe.	6 Sets		Per Sets	
d)	Connecting the equipments to earth bus bar including supply and fixing of GI (Hot Dip) wire of size as below on 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 the damages.				

	100				
i)	6 SWG	200Mtr		Per Mtrs	
ii)	8	150Mtr		Per Mtrs	
e)	Supplying and fixing of earth bus bar of galvanized (Hot Dip) M S flat 40 mm x 6 mm on wall having clearance of 6 mm from wall including providing drilled holes on the bus bar complete with GI bolts, nuts, washers, spacing insulators etc, as required	50Mtr		Per Mtrs	
4.0	<u>LT Cable and Accessories</u>				
	Supply and installation of XLPE insulated PVC sheathed aluminium/copper conductor, 1.1 kV grade armoured cable conforming to IS:7098 (Part-1), as per approved make as per direction of Engineer In-charge.				
	Aluminium Power Cables				
4.1	Supply of 3.5C x 185 sq mm armoured Aluminium cable.	1320Mtr		Per Mtrs	
4.2	Laying of two cables above 35 sqmm and upto 185 sqmm in an underground trench in single tier formation (horizontal), the trench size : 680 mm x 760 mm average depth, with brick protection on the top of each cable 8 (eight) Nos. bricks per Mtr. and 4 (four) Nos. bricks per Mtr. as separator between the bricks and cables and also trench to be filled up with shifted soil, levelling up and restoring surface duly rammed	100Mtr		Per Mtrs	
4.3	Laying only Cable above 50 sqmm but not exceeding 400sqmm through existing RCC/ Hume/GI Pipe/Tray /open masonry trench/masonry trench with cover for single, 2, 3, 3½ and 4 core	820Mtr		Per Mtrs	
4.4	Laying of Above 95 sqmm cable on wall by saddling with S&F of required accessories as per site conditions.	820Mtr		Per Mtrs	

4.5	<p>Survey of L.T cable route as per instruction of Site Engineer and submission of route survey drawing (In two copies) inscribing different land marks for microtunnelling work. Excavation of Soil by cutting of metaled Road / Cement Concrete / Brick Soling& Re-instatement of the same as per instruction of Site Engineer.</p> <p>Laying of heavy duty HDPE Pipe by microtunnelling work with Horizontal Direct Drilling (H.D.D) method without disturbing the regular railway or vehicular traffic above maintaining statutory depth under railway track or highway carriageway with sealing or plugging & earthing complete at both end including supply of 160 mm (dia) NB HDPE pipe of PE-80, PN-6 & 10 mm (thickness) and associated materials as per IS:4984-1995 including preparation and submission of drawing for such cable laying (Cost of all materials, labour, hiring charges of tools., plants., machineries etc., transportations, incidentals are to be borne by the contractor). Laying & Dressing of 3.5C x 185 sq mm armoured Aluminium cable as per instruction of the Site Engineer</p>	300Mtr		Per Mtrs	
4.6	Excavation of soil for making of cable inspection hole (Minm. Size 1.1x0.5x1.2M depth) as per instruction of the Site Engineer including backfilling the excavated soil after laying of kin-burnt 1st class bricks incl. supply of bricks having proper size & shape suitable for cable protective cover.	2 Nos		Per Nos	
4.7	Excavating trenches of required width for pipes, cables, etc exceeding 80 mm dia. but not exceeding 300 mm dia including excavation for sockets, and dressing of sides, ramming of bottoms, by maintaining a depth upto 0.5 m. It also includes removal of excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m.	300Mtr		Per Mtrs	

4.8	Providing and placing in position 100 mm thick factory made machine batched & machine mixed Precast RCC Rectangular Covers on drains of footpath of various sizes, of M-25 grade cement concrete for RCC work, including cost of centering, shuttering, reinforcement of 8 mm dia TMT bars of Fe 500 grade @ maximum 100mm c/c on both ways , neat cement punning on finished surface, properly encased on all edges with 1.6 mm thick , 100 mm wide MS sheet duly painted over priming coat , reinforcement to be welded at edges with MS sheet and providing 2 Nos. 12 mm dia bar for hooks etc i/c cost of cartage, all leads & lift, handling at site etc. all complete as per direction of Engineer-in-Charge	80 Sqm		Per Sq.m.	
4.9	Single Brick Flat Soling of picked jhama bricks including ramming and dressing bed to proper level and filling joints with local sand	80 Sqm		Per Sq.m.	
5.0	Supplying & fixing medium gauge 150 mm dia GI Pipe (ISI-Medium) Protection with necessary fittings and jointing materials as required	50Mtr		Per Mtrs	
6.0	Supply & laying of XLPE insulated PVC sheathed aluminium/copper conductor, 1.1 kV grade armoured cable conforming to IS:7098, as per approved make in ground/trench/surface/pipe, etc. wherever required as per direction of Engineer In-charge. <i>Note: The rate of Installation should be inclusive of Cable clamps, tags Saddles, Consumables etc. Trays/pipes, trenches, abricated tray supports etc will be covered & paid in Separate Items.</i>				
6.1	4C x 16 sq mm armoured Aluminium cable.	180Mtr		Per Mtrs	
	Copper Power Cables				
6.2	4C x 10 sq mm armoured copper cable.	80Mtr		Per Mtrs	
6.3	4C x 2.5 sq mm armoured copper cable.	60Mtr		Per Mtrs	
b)	Compression Glands :				
	Supplying and fixing compression type gland complete with brass gland, brass ring & rubber ring for dust & moisture-proof entry of XLPE/PVC armoured cables as below :				
	3.5 core 185 sqmm	4 Nos		Per Nos	
	4 core 10 sqmm /16 sqmm	14 Nos		Per Nos	

	4 core 2.5 sqmm	103	4 Nos		Per	
c)	Finishing cable ends :					
	Finishing the end of following XLPE/PVC armoured cables by crimping method incl. supplying and fixing solderless socket (Dowels make), tapes, anticorrosive paste & jointing materials :					
	3.5 core 185 sqmm		36 Set		Per Set	
	4 core 2.5 sqmm cable		4 Set		Per Set	
	4 core 10 sqmm cable		2 Set		Per Set	
	4 core 16 sqmm cable		12 Set		Per Set	
7.0	Supply & Fixing of perforated HOT dipped GI cable tray incl. S&F GI connector, 6mm dia MS suspender, bolts & nuts, steel fastener etc. as required of the following size. Incl. Al painting of 25x25x3mm angle iron support.					
7.1	600 mm wide x 50 mm x 1.6 mm thk		100Mtr		Per Mtr	
7.2	300 mm wide x 50 mm x 1.6 mm thk		100Mtr		Per Mtr	
7.3	100 mm wide x 50 mm x 1.6 mm thk		150Mtr		Per Mtr	
8.0	<u>SWITCH BOARD & SOCKET OUTLETS:</u>					
i	Supply & Fixing 240 V, 6 A, 3/5 pin Modular type plug socket with 6A Modular type switch , without plug top on 4 Module GI Modular type switch board with Module top cover plate flushed in wall incl. S&F switch board and cover plate and making necy. connections with PVC Cu wire and earth continuity wire etc.		18 Nos		Per Nos	
ii	Supply & Fixing 240 V, 6/16 A, 3/5 pin Modular type plug socket with 16A Modular type switch , without plug top on 4 Module GI Modular type switch board with top cover plate flushed in wall incl. S&F switch board and cover plate and making necy. connections with PVC Cu wire and earth continuity wire etc.		25 Nos		Per Nos	
iii	S&F of 240V, 25 amps modular starter with 25A modular switch type DP MCB (C curve) on suitable size switch board embedded in wall with top cover plate and 25 A Socket with plug set on separate suitable size switch board incl. S&F of switch boards and cover plates embedded in wall with top cover plate and making good of damages. (for AC)		15 Nos		Per Nos.	

9.0	SUBMAIN, CIRCUIT & POINT WIRING:104				
a)	Distribution wiring in 1.1 KV single core stranded 'FRLS' PVC insulated & unsheathed copper wire in suitable size PVC rigid conduit 'FR' incl. its supply, complete with all accessories embedded in wall/ceiling and making good of damages as required				
i	2 x 22/0.3 (1.5 sqmm) + 1 x 22/0.3 (1.5 sqmm)	500Mtr		Per Mtr	
ii	2 x 36/0.3 (2.5 sqmm) + 1 x 22/0.3 (1.5 sqmm) [For Circuit & 6A Socket]	800Mtr		Per Mtr	
iii	2 x 56/0.3 (4 sqmm) + 1 x 36/0.3 (2.5 sqmm) [For AC & 16A Socket]	1400Mtr		Per Mtr	
iv	2 x 84/0.3 (6 sqmm) + 1 x 56/0.3 (4 sqmm) [For LDB]	300Mtr		Per Mtr	
b)	Distn. wiring of 2x1.5sq.mm+1x1.5sq mm single core stranded 'FRLS' PVC insulated & unsheathed copper wire in suitable size PVC rigid pipe incl its supply, complete with all accessories embedded in wall/ceiling to light/fan/call bell points with Modular type switch fixed on Modular GI switch board (S&F) with top cover plate flushed in wall incl. mending good damages to original finish.				
	Average run 6 mtr	140 Point		Per point	
c)	Distn. wiring of 2x1.5sq.mm+1x1.5sq mm single core stranded 'FRLS' PVC insulated & unsheathed copper wire in suitable size PVC rigid pipe complete with all accessories embedded in wall/ ceiling to 240 V 6A 5 pin plug point incl. S&F 240 V 6A 5 pin Modular type plug socket & Modular type switch incl. S&F earth continuity wire, fixed on 4 Module GI switch board with 3/4 Module top cover plate flushed in wall incl. mending good damages to original finish.				
	On Board	20 point		Per point	

10.0	<p style="text-align: center;">105</p> <p>Supplying & Fixing GI waterproof type looping cable box size 200x150x100 mm deep having 2 mm thick comprising of one 250 V 15 A kit-kat fuse unit, two compression type brass cable gland for 4- core 2.5 sqmm cable and having lined with rubber gasketed GI top cover with brass machine screws etc., earthing terminal with lug, 3phase with neutral terminal, including S&F 40x6 mm thick, MS clamps with bolts, nuts etc. including painting with anticorrosive paint.</p>	16 No		Per No.	
11.0	<u>SUPPLY & FIXING OF LIGHTING FIXTURES AND FAN: (Non-Schedule Item)</u>				
	Supply, installation, assembling, testing and commissioning of the following Light Fixtures with complete accessories, control gears, civil works complete in all respect as per technical specifications and drawings. The quoted rate shall be inclusive of fixtures and accessories including all necessary supports, brackets, down rods and painting etc. as required.				
i	<p>Type of Light: High Bay Light</p> <p>Lumen>= 12000 lm</p> <p>Luminous Efficacy>= 150 lm/W</p> <p>CCT>= 5700K</p> <p>Protection: IP 66 and IK07</p> <p>Housing: non corrosive high pressure die-cast aluminum material</p>	40 Nos		Per No	
ii	<p>Type of Light: Flicker free LED Tube Light</p> <p>Lumen >= 2000 lm</p> <p>Luminous Efficacy>= 125 lm/W</p> <p>CCT >= 6500K</p>	20 Nos		Per No	
iii	<p>Type of Light: Recessed Mounted LED Downlighter</p> <p>Lumen>= 1500 lm</p> <p>Luminous Efficacy>= 100 lm/W</p> <p>CCT>= 5700K</p> <p>Protection: IP20 and IK02 rating</p> <p>Housing: Moulded PC housing with epoxy white powder coated finish</p>	12 Nos		Per No	

	106				
iv	Type of Light: Back lit Type recessed mounted LED Panel Light of 600mmX600mm Lumen>= 3300 lm Luminous Efficacy>= 110 lm/W CCT>= 5700K Protection: IP20 and IK05 rating Housing: Corrosion resistant CRCA housing with epoxy white powder coated finish	15 Nos		Per No	
v	Type of Light: LED Flood Light Lumen>= 16500 lm Luminous Efficacy>= 110 lm/W CCT>= 5700K Protection: IP 66 and IK07 rating Housing: non corrosive high pressure die-cast aluminum material with black powder coated finish	5 Nos		Per No	
vi	Type of Light: Bollard Light Lumen>= 900 lm Luminous Efficacy>= 90 lm/W CCT>= 5700K Protection: IP65 and IK05 rating Housing: die-cast aluminium with power coated in mat black finish having Polycarbonate opal diffuser and die cast aluminium mounting base	16 Nos		Per No	
vii	Supply, Installation, Testing and Commissioning of 1200mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 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%, remote or 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.	12 Nos		Per No	
viii	Supply & Fixing 240V, Modular Socket (2 Module) type fan regulator (Step type) on existing Modular GI switch board with top cover plate incl. making necy. connections etc.	8 Nos		Per No	
ix	Fixing only fan clamp for RC ceiling as per specification after cutting the ceiling & binding with reinforcement and mending good the	8 Nos		Per No	

	damages.	107				
x	Supply & fixing of 300mm dia sweep 3/4 blade exhaust fan complete with all required accessories as per technical specification & drawings.	6 Nos			Per No	
12	<u>Supply and fixing of Lightning Arrestor</u>					
i	Supply of 250 micron Copper bonded steel rod 16mm dia air teminal having Height of 1 meter with base plate.	8 Nos			Per Nos	
ii	Supply and laying of cable single length of minimum 70 sq.mm cross section insulated copper cable for lightning current dissipation conductor to use as a parapet or surface of wall for lightning conductor complete as required, including of Roof conductor holder for flat roof/parapet wall.	300Mtr			Per Mtr	
iii	Supply of Test Link (made of copper) in suitable enclosure	4 Nos			Per Nos	
iv	50mm X 3 mtr Copper Bonded Earthing Electrode Electrogrip BFC (25kg/bag)1bag(25kg/bag)which is highly conductive material is tested as per IEC 62561-7 & ASTM G57-06 for the resistivity of 0.24ohms & IS3043 for the resistivity of 0.471ohms & pH value of more than 09	4 Nos			Per Nos	
13	<u>AC Works</u>					
i	SUPPLY, INSTALLATION ,TESTING & COMMISIOING OF SUPER EFFICIENT ROOM TYPE 1.5T SPLIT AIR CONDITIONING UNITS AS UNDER SPECIFICATION (BOTH INDOOR & OUT DOOR INCLUDING NECESSARY INTERCONNECTION) : Power Supply : 1 phase, 230-240 volts, 50 Hz, BIS certified Copper Coil type Condensor& Evaporator Indian Seasonal Energy Efficiency Ratio (ISEER) >=5 Compressor Type : Hermetic Rotary DC Invertor Refrigerant: R290 or R410A Noise- As per IS:1391 or latest, Comprehensive Product Warranty : 1 years Compressor Warranty : 5 years	15 Nos			Per Nos	

ii	Supply Installation,testing and commissioning of Interconnecting refrigerant Hard/soft drawn copper pipe work (including N2 gas charge for leak test)between each set of indoor & outdoor units as per specifications, all piping inside /Outside the room shall be properly supported with MS hanger & clamps. All pipe should be insulated with minimum 25mm thick nitrilerubber insulation wrapped with teflonwapping. (except 5 mtr Cu pipe comes alongwith machines)				
a	Liquid (suction/Cold) pipe with 25mm thick nitrile rubber insulation for 1.5 TR unit (cassette & Split).	60 RM		Per RM	
b	Gas (Discharge/hot) pipe with 25mm thick nitrile rubber insulation for 1.5 TR unit (cassette & Split).	60 RM		Per RM	
iii	Supply & fixing of Rigid PVC drain pipe complete with fittings, supports as per specifications and insulated with 13mm thick closed cell elastomeric nitrile rubber insulation.	165 RM		Per RM	
	25/32 mm NB				
iv	Supply and laying of 4core 2.5 sq.mm flexible control cable with saddles/supports & PVC conduits to connect Outdoor units with Indoor units	165 RM		Per RM	
v	Supply and fixing of MS frame structure on wall/floor for installation of outdoor units (for both cassette, tower and split units)	15 Nos		Per Nos.	
vi	Supply and fixing Teflon wrapping of insulated copper pipes for protection of insulation from rough weather	15 Nos		Per Nos.	
vii	Minor civil works including hole making, chipping, chiseling as necessary and filling the same with cement & sand mortar and making good mending damages..	15 Lot		Per Lot	
14	<u>FIRE DETECTION ALARM SYSTEM</u>				
i	Supply & fixing of addressable Photoelectric Smoke Detector, include base	6 Nos		Per no.	
	Sub-Total Cost for Part-C-2(in Rs.)				
	Sub-Total Cost for Part-C-1(in Rs.)				
	Sub-Total Cost for Part-B (in Rs.)				

	Sub-Total Cost for Part-A (in Rs.)	109	
	TOTAL OF PART (A+B+C-1+C-2)(in Rs)		

Total Amount=Not Applicable

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

price not to be quoted here

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 work..... numbers

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 **06 (Six) 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: -



**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 6TH MEETING HELD ON 27TH MAY, 1993.**

(Copy of Booklet Published on May, 1993)

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GENERAL CONDITIONS OF CONTRACT

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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 form 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 use or occupation by the Trustees of any portion of the works in respect of which a certificate of completion has been issued (all of which are herein collectively referred to as the excepted risks).
- 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, from 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, whomay from time to time makes such delegation. Contractor and the Trustees as though it had been given by the Engineer, who may from time to time, makes 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 his Class of Registration, shall be exempt from depositing the Earnest Money, as per the following scale:

Class of Registration	Amount of Fixed Security	Financial limit of each tender
A	Rs.10,000/-	Any tender priced up to Rs. 2,00,000/-
B	Rs.5,000/-	Any tender priced up to Rs.1,00,000/-
C	Rs.2,500/-	Any tender priced up to Rs.50,000/-

(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 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 Contract 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 at 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 therefrom on account of:
- (a) Infringement of any patent right, design, trade-mark, or name or other protected right, in connection with the work 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 property, 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 malarial 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 or 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 at no stage remove 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 requirement 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 instruction 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. No work shall be covered up and put out of view by the contractor without approval of the Engineer or his Representative and whenever required by him the contractor shall uncover any part or parts of the work or make openings in or 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 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 taken over 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 PAYMENT:

6.1. No Sum shall be considered as earned by or due to the Contractor in respect of the work till final and satisfactory completion thereof and until a certificate of final completion in Form G.C.2 has been given by the Engineer. 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 at 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 his bill in the proforma approved by the Engineer and submit the same to the Engineer's Representative in quadruplicate, duly signed by him or his accredited Agent over his Rubber Stamp. The Engineer or his Representative may, in his absolute discretion, allow advance payment against such bill to the extent of an amount not exceeding 75% of the "net payable" sum of the said bill, subject to adjustment thereof against the bill at the time of checking and auditing the bill at the Trustees' end. The measurement Book will not be handed over to the Contractor; but he will obtain the abstracts of quantities, 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 material shall, in the opinion of the Engineer or his Representative, be of imperative nature.

ii. The value of such material shall be assessed by the Engineer or his Representative, at their own discretion.

iii. A formal agreement has been drawn up with the contractor, under which the Trustees secure a lien on the contractor's materials.

- iv. The materials are safe-guarded by the contractor against losses, shortage and 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 to 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 Materials 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 Engineer shall have the power to order the Contractor in writing to make any variation of the Quantity, quality or form of the works or any part thereof that may, in his opinion, be necessary and the Contractor upon receipt of such an order shall act as follows:

- 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 inapplicable 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/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 thereof) 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 trustees 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 thematter shall be referred to Chairman, who shall thereupon consider and give adecision.

10.3.If , however , the contractor be still dissatisfied with the decision of theChairman , he shall, within 15 days after receiving notice of such decisionrequiredthatwithin60daysfromhiswrittennotice,theChairmanshallreferthematter to an Arbitrator of the panel of Arbitrators to be maintained by theTrustees for the purpose and any such reference shall be deemed to be a submission to arbitration within the meaning ofIndian Arbitration Act , 1940 oranystatutorymodificationthereof.

10.3.1 If the Arbitrator so appointed is unable or unwilling to act or resigns hisappointment or vacates his office due to any reason whatsoever, anotherperson from panel shall be appointed as Sole Arbitrator and he shallproceedfromthestageatwhichitwasleftbyhispredecessor.

10.3.2 The Arbitrator shall be deemed to have entered on reference on the dateheissuesnoticetoboththepartiesfixingthedateoffirsthearing.

10.3.3 The time limit within which the Arbitrator shall submit his award shallnormally be 4 months as provided in Indian Arbitration Act, 1940 or anyamendmentthereof.The Arbitrator may, if found necessary, enlarge thetimeformakingandpublishingtheaward,withtheconsentoftheparties.

10.3.4 The Venue of the arbitration shall be Kolkata or as may be fixed by theArbitrator in his sole discretion. Upon every or any such reference to costof any incidental to the reference and award respectively shall be indiscretionoftheArbitratorwhomaydetermine,theamountthereoforbywhom and to whom and in what manner the same shall be borne andpaid.

10.3.5 The Award of the Arbitrator shall be final and binding on all partiessubject to the provisions of the Indian Arbitration Act, 1940 or anyamendmentthereof.TheArbitratorshallgiveaseparateawardinrespectof each item of disputes and respective claim referred to him by eachpartyandgivereasonfortheaward.

10.3.6 The Arbitrator shall consider the claims of all the parties to the contractwithin only the parameters of scope and conditions of the contract inquestion.

10.3.7 SaveasotherwiseprovidedinthecontracttheprovisionsoftheArbitration Act, 1940 and rules made there under, for the time being inforce,shallapplytothe arbitrationproceedingsunderthisClause.

10.4.The Contractor shall not suspend or delay the work and proceed with thework with due diligence in accordance with Engineer's decisions.The Engineeralsoshallnotwithholdanypayment,which,accordingtohim,is dueorpayable

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

MO TENDER

CONTRACT NO.....

To,

.....I/

We

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..... of

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having examined the site of works, inspected the Drawings and read the Specifications, General and Special Conditions of Contract and Conditions of Tender, hereby 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)

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.....

*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

(In Block Letters)

Signature of the Tenderer

(Seal of the Tenderer)

Name of the Tenderer

(In Block Letters) (I

Address

Dated

.....

.....

Address

..... Occupation

n.

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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 Seal to be hereunto affixed (or have hereunto set their respective hands and seals) the day and year first above written.

The Seal
of
...
.....
.....

Was hereunto affixed in the presence of:

Name

Address
.....
.....
.....

Or

SIGNED, SEALED AND DELIVERED

by the said
.....
.

In the presence of:

Name

Address:
.....
....

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

Name

Address:

KOLKATA PORT TRUST

FORM G.C.1

Contractor

Address

..... Date

Date of Completion

.....

Dear Sir/s,

This is to certify that the following works viz.

Name of the Work

..... Estimate

Contract Number E.E.O. dt

C.E.O. dt

Work Order Number

..... At

Location

..... Co

Contract Number

Which was carried out by you is 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 D

eputy 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.....
.....Addres
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

..... ated..... (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, Kol
kata...../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 Guaranteed 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 ofday 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 forbearance, 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 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

Kolkata Port Trust (KoPT) hereinafter referred to as "The Principal"

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 compliance 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, the Principal will appoint an Independent External Monitor (IEM), who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

Section 1-Commitment of the Principal

- (1) The Principal commits itself to take measures necessary to prevent corruption and to observe the following principles:-
 - a. No employee of the Principal, personally or 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.
 - b. The Principal will, during the tender process, treat all Bidder(s) with equity and reason. The Principal will, in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential/additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.
 - c. The Principal will exclude from the process all known prejudiced persons.
- (2) If the Principal obtains information on the conduct of any of its employees which is a criminal offence under the IPC/PC Act, or if there be a substantial suspicion in this regard, the Principal will inform the Chief Vigilance Officer and in addition can initiate disciplinary actions.

Section 2-Commitment 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 contracts, submission or non-submission of bid 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 purpose 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/representative 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”.
 - d. The Bidder(s)/Contractor(s) will, when presenting his bid, disclose any and all payments he has made, is committed to or intend 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 forms such as to put this reliability or credibility in question, the Principal is entitled to disqualify the Bidder(s)/Contractor(s) from the tender process or take action as per the procedure mentioned in the “Guidelines on Banning of business dealings”. Copy of the “Guidelines on Banning of business dealings” is annexed and marked as Annex “B”.

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 the recovery of 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 with any other Company in any country conforming to the anticorruption approach or with any other Public Sector Enterprise in India that could justify his exclusion from the tender process.
- (2) If the Bidder makes an incorrect statement on this subject, he can be disqualified from the tender process or action can be taken as per the procedure mentioned in "Guidelines on Banning of business dealings".

Section 6-Equal treatment of all Bidders/Contractors/Subcontractors

- (1) The Bidder(s)/Contractor(s) undertake(s) to demand all subcontractors' 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 subcontractors.
- (3) The Principal will disqualify from the tender process all bidders who do not sign this Pact or violate its provisions.

Section 7 - Criminal charges against violating Bidder(s)/Contractor(s)/Subcontractor(s).

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the same to the Chief Vigilance Officer.

Section 8-Pact Duration:

This pact begins when both parties have legally signed it. It expires for the Contractor 12 months after the last payment under the contract, and for all other Bidders 6 months after the contract has been awarded.

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 of KoPT.

Section 9-Other Provisions:

- (1) This agreement is subject to Indian Law. Place of performance and jurisdiction is the Registered Office of the Principal, i.e. New Delhi.

- (2) Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.
- (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.

<p>_____</p> <p>_____ (For & on behalf of the Principal) (Office Seal)</p>	<p>_____</p> <p>_____ (For & on behalf of Bidder/Contractor) (Office Seal)</p>
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Place.....

Date.....

Witness 1:
(Name & Address) _____

Witness 2:
(Name & Address) _____
