

TENDER NOTICE

Sealed competitive tenders are invited from experienced Contractors for the scope of work given below. Tenders are to reach the undersigned on or before the date and time mentioned below. Please refer scope of supply/Technical specification, General Terms and conditions and special terms attached.

Tender No. & date	HCSL/CSR/TEN/2026/166 dated 27.07.2026
Scope of Supply / Work	Construction of Post Office Building under CSR activities (CSL) at Hooghly CSL, Salkia, Howrah (Detailed specification is enclosed separately)
Type of Tender	Open Tender, Two - Bid
Mode of Submission	Manual mode only
Last date & time of receipt of tender	10.08.2026 at 15:00 Hrs
Date & time of opening of tender	10.08.2026 at 15:30 Hrs
Tender Cost	Nil
EMD	Rs. 51,000/-
Completion of Work	3 Months from the date of issue of Work order or site handing over whichever is later.
Officer-in -Charge	Name : Avik Majumder Designation : Sr. Manager - IR & HR Email : avik.majumder@hooghlycsl.com Phone No : +91- 7003395446 Name : Subham Manna Designation : Sr. Project Officer (Civil) Email : subham.manna@hooghlycsl.com Phone No : +91- 7003595364

1. Tender references should be clearly indicated on top of the respective envelopes.
2. Sealed tenders in Two cover systems (Prequalification cum Technical and Price Bid) addressed to The Senior Manager (IR & HR) shall be **dropped in the Hooghly CSL tender box or couriered to Hooghly Cochin Shipyard Ltd (Hooghly CSL), Satyen Bose Road, Danesh Sk Lane (PO), Nazirgunge, Howrah, West Bengal, PIN -711109** before the due date and time.
3. The tender documents can be downloaded from website www.hooghlycsl.com, www.cochinshipyard.com or <http://www.eprocure.gov.in>. The tender documents are available on above-mentioned link.
4. All corrigenda, addenda, amendments, and clarifications to this tender will be hosted in the website www.hooghlycsl.com, www.cochinshipyard.com or <http://www.eprocure.gov.in> and not in the newspaper. Bidders shall keep themselves updated with all such developments till the last date and time of submission of tender.
5. **Tender administration:** Tender procedure/administration/evaluation including correspondences will be done M/s. Hooghly Cochin Shipyard Limited, Howrah and awarding of the contract will be done by M/s. Hooghly Cochin Shipyard Limited, Howrah, West Bengal.

The bidder must visit the HCSL site before submission of the bid. The site visit slip must be submitted along with the tender document containing HCSL OIC signature is mandatory else offer will be rejected.

For any queries, contact the below personnel:

Name: Subham Manna
Designation: Sr. Project Officer (Civil)
Email : subham.manna@hooghlycsl.com
Phone No: +91- 7003595364




For Hooghly CSL

1. **Minimum qualification criteria for participating in the tender will be as follows:**

Successful experience as Civil Construction Company in the successful completion of at least **one (1) similar Civil Construction works** which includes **brick work, PCC/RCC work, finishing work etc** of nature and complexity comparable to the proposed construction work within the **last 07 years** from the date of issue of tender document. The value of the work should not be less than **Rs. 13.60 Lakhs**. (Satisfactory completion certificate from the Client for work done (Certified by client) should be submitted along with bid). For contracts under which the bidder participated as a joint venture member, only the bidder's share, by value, shall be considered to meet the requirements.

Or

Successful experience as Civil Construction Company in the successful completion of at least **two (2) similar Civil Construction works** which includes **brick work, PCC/RCC work, finishing work etc** of nature and complexity comparable to the proposed construction work within the **last 07 years** from the date of issue of tender document. The value of each work should not be less than **Rs. 8.50 Lakhs** incl. GST. (Satisfactory completion certificate from the Client for work done (Certified by client) should be submitted along with bid). For contracts under which the bidder participated as a joint venture member, only the bidder's share, by value, shall be considered to meet the requirements.

Or

Successful experience as Civil Construction Company in the successful completion of at least **Three (3) similar Civil Construction works** which includes **brick work, PCC/RCC work, finishing work etc** of nature and complexity comparable to the proposed construction work within the **last 07 years** from the date of issue of tender document. The value of each work should not be less than **Rs. 6.80 Lakhs** incl. GST. (Satisfactory completion certificate from the Client for work done (Certified by client) should be submitted along with bid). For contracts under which the bidder participated as a joint venture member, only the bidder's share, by value, shall be considered to meet the requirements.

Note: Similar work means, Civil construction works for State/Central Govt., Shipyards, MNCs, Heavy Industries etc. consisting of Brick work, RCC work, Finishing work within 07 years from the date of issue of tender document.

Contractor shall submit the valid proof like Work Orders/ Invoice/ Work Completion certificates/ GSTR-1 for the work carried out against the work credentials.

- i. The average Annual Turnover of the bidder should be **at least Rs. 5.1 lakhs** during the last three preceding years.
- ii. Audited Balance sheets showing turnover, Profit & Loss account of the firm for the preceding 03 years (FY 2023-24, 2024-25, 2025-26) should be submitted along with the application for prequalification).
- iii. The Tenderer should enclose copy of EPF (if applicable), ESI (if applicable), Trade license, PAN, GST registration certificate, Income tax returns for last three years. (A copy of the same shall be submitted along with the application for issue of tender document)
- iv. Offers from joint ventures/consortium will not be accepted.
- v. Net worth of the contractor must be positive as per the latest balance sheet. (MSE/NSIC will get exemptions)

Each page of the tender document along with all other submitted documents must be duly signed by the Authorized signatory with Bidder's signature and seal.

Signature and Seal of the Bidder(s)

 
For Hooghly CSL

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1. INSTRUCTIONS TO THE BIDDERS:

- 1.1. Offer shall be submitted in the prescribed form to M/s Hooghly Cochin Shipyard Ltd (Hooghly CSL), Nazirgunge Works, Satyen Bose Road, P. O. Danesh Sk. Lane, Howrah - 711 109, West Bengal at the designated tender box and has to be addressed to The Senior Manager (IR & HR).
- 1.2. Before submission of the tender, the bidder must visit the site, examine the General Conditions of Contract, the Specifications (including any drawings and other specifications referred to therein), the schedules and the Bill of Quantities. In case of any ambiguity or discrepancy between any of these documents or between figured and measured dimensions, the bidder should immediately refer the matter to Hooghly CSL.
- 1.3. Hooghly CSL will not be responsible for any costs or expenses incurred by the Bidder in connection with the preparation and submission of his bid or for any other expenses incurred in connection with such bidding regardless of the conduct or outcome of the tendering process including cancellation of this tender process.

2. GUIDANCE FOR TENDER SUBMISSION:

Tender shall be submitted in two separate sealed covers as given below super scribing the name of work, address of Accepting Authority and the address of the Tenderers. These 2 covers shall be sealed within 1 larger cover.

Cover A.

- a. Inside the cover-A two separate covers should be there consisting of 'EMD within a separate envelop 'Cover-1'. 'Technical eligibility criteria related documents, undertakings and declarations, etc. within another separate envelop 'Cover-2' and
- b. Duly filled, signed and sealed tender document and unpriced commercial Bid ("PART-1" original issued by Hooghly CSL).
- c. Copy of PAN & GST registration certificate.
- d. Power of attorney or authorization with seal of the company in favour of persons signing the bid.
- e. EMD (in separate envelop within the Cover-A).
- f. Copy of un-priced price bid (attached), Annexure-12.

Cover B.

- a. Quoted Price Bid (original issued by Hooghly Cochin Shipyard Ltd) duly signed and sealed in the prescribed format, Price Bid Format Annexure-12 (there shall not be any clause added by the tenderer in the price bid, price bid with any additional clause/conditions etc will be summarily rejected).

3. SITE VISIT:

- 3.1. The site for the work is located at **Hooghly Cochin Shipyard Limited, Salkia Unit**
Salkia School Road, Salkia, Howrah-711106,
West Bengal, India
- 3.2. **It is considered necessary that the Bidder(s) shall visit the site and get clear idea about the work involved, before quoting. The Bidder(s) are therefore advised to visit the site and study all the particulars of the site and the nature of the work.**
- 3.3. Bidder(s), if required, may contact on telephone no. 7003595364 for any doubts /clarifications / site visits.

4. EARNEST MONEY DEPOSIT (EMD) / BID BOND:

- 4.1. Bidders shall furnish EMD of **Rs. 51,000/- (Rupees Fifty One Thousand Only)**, against this tender.
- 4.2. The EMD can be remitted in the form of Demand Draft (DD) / Banker's Cheque / Fixed Deposit Receipt (FDR)/ Bank Guarantee drawn in favour of "Hooghly Cochin Shipyard Limited" payable at Kolkata and shall be valid for a period of 6 (Six) months from the due date of opening of Techno-commercial Bids from any Nationalized/ Scheduled Bank or paid online through e-gateway of –

- 4.3. EMD furnished by all contractors except the lowest tenderer will be released after issuing work order and submission

HOOGHLY COCHIN SHIPYARD LIMITED
STATE BANK OF INDIA
BRANCH: COCHIN SHIPYARD
ACCOUNT NO: 37354232301
IFSC CODE: SBIN0003229



Handwritten signature in blue ink.

- of SD and its acceptance by the contractor to whom the work is awarded. Except L2, all other bidders EMD could be released earlier.
- 4.4. EMD of the successful tenderer will be refunded after remittance of the security deposit and acceptance of the order. EMD of L2 can be released after the issuance of work order to L1.
- 4.5. The Earnest Money Deposit (EMD) may be forfeited if: -
- The bidder withdraws, amends, impairs, or derogates from the tender or agreed conditions in any respect within the period of validity of their offer.
 - Non-acceptance of work order.
 - Bidder after accepting the work order fails to provide services.
- 4.6. Micro and Small Enterprises (MSEs) as defined in MSE Procurement Policy issued by Department of Micro, Small and Medium Enterprises (MSME) or are registered with the Central Purchase Organization or the concerned Ministry or Department are exempted from submission of EMD.

TENDERS RECEIVED WITHOUT EMD or EMD furnished not as per Hooghly CSL format in case of BG will be summarily rejected (other than those who are exempted from payment of EMD).

- 4.7. Refund of EMD in all the cases shall be without interest as stated below:
- EMD will be refunded to the **techno-commercially** rejected bidders within 15 days from the date of price bid opening and remaining bidders within 30 days of determination of L1 or placement of Order on Successful bidder whichever is earlier.
 - In the event of cancellation of tender, the EMD will be refunded / returned to all the bidders
 - EMD of successful bidders may be converted into performance security or refunded on receipt of performance security B.G.
 - If the validity of the offer of the firm has expired and if bidder is not willing to extend the validity of offer, the EMD of such bidders to be refunded.

5. VALIDITY PERIOD:

- 5.1 Bids / Offers shall remain valid for a period of not less than **120 Days** after the deadline date of submission.

6. OPENING OF BIDS:

- 6.1. **Part-I (Techno-commercial Bid): Part-I bid will be opened on the due tender** opening date from 15:30 Hrs onwards at Administrative Building, Hooghly CSL, Howrah.
- 6.2. **Part-II (Price Bid):** After completion of Techno-Commercial scrutiny, intimation for opening of Part-II bid will be communicated only to Techno-Commercially accepted bidders. Such intimation may be given at a short notice by E-mail or even by telephone, only to the Techno-Commercially qualified bidder(s).

7. BID EVALUATION CRITERIA AND SELECTION PROCESS:

- 7.1 The Tender Committee of Hooghly CSL shall evaluate the Technical Bids based on the fulfilment of Eligibility Criteria; in this regard shall be binding and final. The tenderers will then be informed about the date of opening of their Financial Bids, if required.
- 7.2 The financial bids of those bidders, whose technical bids have been approved, and the rates quoted by the bidders will be read out.
- 7.3. **L1 to be calculated based on the OVERALL TOTAL CONTRACT AMOUNT (EXCLUDING GST) as mentioned in PRICE BID FORMAT.**
- 7.4 The committee after evaluation of these financial bids shall give its final recommendations on the successful bidder.

8. BID REJECTION CRITERIA:

- 8.1 The Following conditions/ deviations are non- negotiable and therefore any bid falling under these conditions/ deviations shall be **summarily rejected**. Bidders to note that they shall not be provided any opportunity to rectify these conditions/ deviations post bid opening:
- Bids received after tender closing date and time.
 - Bids received other than email mentioned above.



- 8.1.3. Bids received without EMD (other than those who are exempted from payment of EMD or those submitting valid EMD Exemption document).
- 8.2 Non-compliance/non-acceptance to any of the terms and conditions of the tender shall render the bid liable for rejection;
Equal time and opportunity for submission of deficient techno-commercial documents and clarification shall be given to the bidders.
- 8.3 **DISQUALIFICATION:**
Even if a bidder meets the tender terms and conditions including prequalification criteria, he shall be subject to disqualification if he is found to have:
- (a) Made misleading or false representations in the forms, statements, affidavits and attachments submitted in proof of the qualification requirements; and/ or;
9. **DELIVERY PERIOD/COMPLETION SCHEDULE:**
The Completion period for entire work shall be **3 months**, (From the date of placement of Purchase Order or site handing over whichever is later.)
10. **DELAYS IN COMMENCEMENT**
The Contractor shall not be entitled to any compensation and/or damages for any loss suffered by him on account of delays in commencing whatever the cause for such delays may be. Similarly, the Contractor shall not be entitled to claim any amount from Client for delays in completion of work.
11. **PRICING:**
All materials shall be procured by the contractor as specified in the Technical Specification/Bill of Quantities, at his own cost and the price quoted shall be deemed to be inclusive of all applicable taxes, transportation, storage, royalties, handling, etc. The contractor should produce challans / Invoices of the materials and its quantity brought to the site as and when required by Hooghly CSL.
12. **ALL INCLUSIVE RATES**
The Contractor's rate shall be fixed & firm and shall include the cost of material, labour, transportation of material to the site, duties, labour cess etc. 18% GST shall be considered. The rates quoted by the Contractor shall be firm throughout the contract period and there shall be no upward revision of the rates quoted by the Contractor for any reasons whatsoever. Any new Taxes, levies, duties imposed after signing the Contract shall be reimbursed by the Client on production of documentary evidence. However, any increase in the duties & taxes during construction because of delays in the completion of work attributed to the Contractor shall be to the Contractor's account.
13. **TERMS OF PAYMENT:**
Hooghly CSL payment terms shall be as under:
- a. Payment can be made on the clear RABs without corrections submitted by the contractor. HCSL shall carry out an initial scrutiny to check the eligibility of the RABs. HCSL has the right to reject the bill if found ineligible. Certified amount will be paid only after quality of work is certified & after scrutiny and crosschecking of the bill by HCSL. The contractor shall submit running account bills in two copies along with joint measurements. The contractor shall inform HCSL well in advance for recording the joint measurement. All statutory taxes, as per the rules prevailing in force at the time of payment of bills will be deducted while making payment or when crediting the amount to the account. After completion of all the works, the contractor has to clear all the debris and make the area neat and tidy at the site. The final bill shall be paid only after the certification regarding quality of work and overall certification by HCSL after obtaining all applicable approvals of HCSL. The final bill shall be paid within one months from the date of submission of claim (bill) by the contractor or completion of all the items of work or date of acceptance of the bill by both parties whichever is later. Contractor shall indicate details like PAN, GST details etc. required for processing payment. Payments will be made through NEFT/RTGS/Cheque mode and necessary details shall be furnished by the contractor. HCSL reserves the right for the deduction of taxes and duties as applicable from the bill or invoice.
- b. The invoices must be submitted along with the joint measurements taken at site duly approved by the designated representatives of the Technical Services department.
- c. The quantities given in the schedule of work are only approximate and payment will be made as per actual measured quantities of work executed at site.
- d. All the payments are made, after deducting there from the amounts already paid, the security deposit, income tax, workers welfare

fund and other amounts as may be deductible or recoverable in terms of the contract.

- e. The amount admissible for interim bills shall be normally paid within 15 days from the date of receipt of the bill by the Engineer-in-charge after such verification as is considered necessarily.
- f. Before submission of the final bill, the Contractor should sign and submit the following:
 - i. A "No Claim Certificate" indicating that he has no claim against the company under the contract except as included in the final bill.
 - ii. Taking over certificate issued by Engineer In charge, Hooghly CSL.

14. LIQUIDATED DAMAGES:

- a. Liquidated Damages will be levied at the rate of 0.5% of the value of contract per week of delay involved subject to a maximum of 10% of the value of the executed contract value.
- b. The owner shall be at liberty to adjust or deduct the said amount of liquidated damages (not the way of penalty) from any amount due to the contractor including Security Deposit.
- c. When the delay is not a full week or in multiples of a week and involves a fraction of a week, the LD payable for that fraction shall be proportional to the number of days involved.

15. DEFECT LIABILITY PERIOD (DLP):

The contractor has to guarantee the material and workmanship for a minimum period of TWO YEARS (24 months) from the date of commissioning and acceptance of the same by Hooghly CSL against defective workmanship/inferior quality of materials used. During this period any part/items found defective shall be repaired/replaced by the Contractor free of cost any trouble or defect originating with the workmanship of any facilities installed arises at any time up to 24 months from the date when the system is taken over after commissioning, and the CONTRACTOR is notified thereof, the CONTRACTOR shall at his own expense and as quickly as possible make such alteration / repairs and replacements as may be necessary to comply with the above guarantees and shall reimburse any costs and expenses incurred by HCSL in connection with such trouble or defect. If the contractor fails to take action as above as HCSL shall direct, HCSL shall be free to take corrective/alternative action at the contractor's cost and risk within a reasonable time.

16. SECURITY DEPOSIT:

- 16.1 Contractor shall give security deposit in the form of Bank Guarantee for 5% order value within 15 days after receiving of Work Order.
- 16.2 The Security Deposit deposited shall be released on satisfactory completion of 02 years of defect liability period.
- 16.3 No interest shall be payable on SD for the period of its pendency.
- 16.4 SD will be forfeited where the contractor fails to meet the contractual obligations.
- 16.5 Bidders with valid registration under NSIC/MSE category are also entitled for all privileges, concessions, relaxations etc. stipulated by relevant Govt. orders in this regard.

17. Measurement and Billing

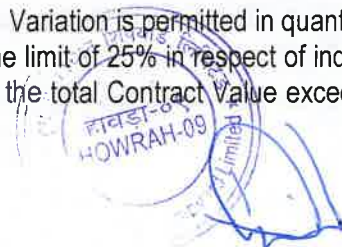
The Contractor or his representative shall accompany the Client or their representative in taking measurements/inspection and shall agree to the measurements taken on spot. The Contractor shall then present his bill based on the agreed and recorded measurements and as per the directions of the Engineer. If the Contractor fails to accompany the Client for measurements, then he shall be bound by the measurements taken by the Client.

18. CHANGES: HOOGHLY CSL reserves the right to issue change orders which provide for changes in the scope of work required under WORK ORDER, and for equitable adjustment in the price hereunder.

Any amendment to WORK ORDER shall be made in writing by HOOGHLY CSL and all other terms and conditions of WORK ORDER shall remain unchanged.

- 18.1. "Ruling Percentage" shall mean the percentage by which the amount of the works actually awarded is higher or lower than the corresponding departmental estimated amount of the works. Ruling percentage shall be defined based on the departmental estimated amount of works and amount of the works actually awarded.

- 18.2. The quantities given in the Bill of quantities are indicative only. Variation is permitted in quantity of each individual item. The rates quoted shall be firm for such variation up to the limit of 25% in respect of individual items and up to 10% of the Contract Value. In case the variation results in the total Contract Value exceeding the prescribed



percentages, the revision of rates, if any, shall be applicable only for that portion of contract carried out in excess of the permissible percentages. The rate payable shall be determined as given below:

a) Rates and prices of relevant item in the Delhi Schedule of Rates 2023 plus cost index applicable for Kolkata/Howrah, West Bengal plus/ minus Ruling Percentage.

b) Market rates of material and labour, hire charges of plant and machinery used plus 15% for overheads and profits of Contractor. Contractor has to furnish site observed data jointly certified by contractor, employer for computing local market rates along with supporting documents such as tax invoice of materials procured, labour deployment log book, work order/purchase order showing hire charges of plant and machinery, work order showing labour rates etc. to employer.

Whichever is lower, but not less than the rate in the Bill of Quantities.

No claims shall be entertained from the contractor for any downward variation. Contractor's concern is for negative variation as their cost of mobilization, set-up charges etc. does not get recouped in case of reduction in quantities.

19. INDEMNITY CLAUSE:

The firm shall indemnify Hooghly CSL and keep harmless against any or all claims, liabilities, damages, losses, costs, charges, expenses, proceedings and actions of any nature whatsoever made or instituted against HCSL directly or indirectly by reason of:

- i) Any wrongful, incorrect, dishonest, criminal, fraudulent or negligent work, misfeasance, disregard of duties by personnel of the firm; and/or
- ii) Any theft, robbery, fraud or wrongful act or omission by personnel of the firm.

20. RECOVERY OF DUES FROM THE CONTRACTOR:

Hooghly CSL shall have recourse to Contractor for any costs, claims, demands, proceedings, damages and expenses whatsoever arising out of or in connection with any failure of Contractor to perform any of his responsibilities / obligations under the terms of the order. Any amount due from Contractor as per the order shall be deducted from money due or becoming due to Contractor or may be recovered as provided for in the contract.

21. PERMITS AND CERTIFICATES:

CONTRACTOR shall procure, at his expense, all necessary permits, third party approval certificates, and licenses required by virtue of all applicable laws, regulations, ordinances and other rules in force at the place where any of the work is to be performed, and CONTRACTOR further shall hold Hooghly CSL harmless from liability or penalty which might be imposed by reason of any asserted or established violation of such laws, regulations, ordinance or other rules.

Tender documents, Terms and conditions and Drawings should be signed and sealed in all pages by the contractor and accompanied along with the tender.

I / We hereby declare that I/we have read and understood the above instructions and the terms and conditions mentioned above are binding on me/us.

Signature and Seal of the Contractor (s)



GENERAL CONDITIONS OF CONTRACT

1. The bidders are expected to familiarize himself, labour situation, wages and benefits applicable to labours, working hours, prior to quoting the rates. The submission of a bid by bidder implies that he has made himself aware of all the above situations and conditions. Any subsequent claim on this account will not be entertained.
2. All applicable taxes, duties, transportation and insurance etc. except GST should be included in the rate quoted, unless specified otherwise. HOOGHLY CSL reserves the right for the deduction of taxes and duties as applicable from the bill or invoice.
3. Tender documents issued are not transferable. Tender documents issued/downloaded shall be submitted wholly without altering any part.
4. The bidder shall not have been debarred / black listed by Hooghly CSL or by any of the Public Sector Undertaking or Government department etc. Bidders shall produce a self-declaration in this regard as attached.
5. Bidders are instructed to carefully go through the tender documents and shall agree to HOOGHLY CSL terms and conditions, specifications, scope of work etc and quote their offer accordingly. Bidders shall produce a self-declaration in this regard as per the format enclosed with the tender documents. All the pages of tender documents shall be signed and duly sealed by the bidder as a token of the acceptance of conditions stated therein.
6. Bidders shall quote total amount in figures and in words. Corrections and additions if any must be attested/ duly signed by the bidder. In the case of error in multiplication/addition in amount calculated, the rate quoted will be considered as correct and the amount will be calculated accordingly. Conditional rebates & discounts, incomplete/ambiguous offers are likely to be rejected.
7. Bidder's failure to complete submission of their online bids in time on account of reasons such as SLOW SPEED OF SERVER, TECHNICAL PROBLEMS etc. shall not be entertained and EXTENSION OF SUBMISSION TIME shall not be granted on this account.
8. Tender opening shall be carried out at the designated date, time and location as specified in the Notice Inviting Tender. It may please be noted that, if any of the dates indicated in the tender notice is declared a public holiday, the dates shall be extended to the next working day.
HOOGHLY CSL reserves all the rights to reject any or all tenders without assigning any reason. Acceptance of a bid will rest with the competent authority, who does not bound himself to accept the lowest tender and reserves the right to reject any or all of the tenders received, without assigning any reason for the same.
9. Throughout the bidding documents, the terms "bid" and "tender" and their derivatives ("bidder / tenderer", "bid /tender", "bidding / tendering", etc.) are synonymous, and day means calendar day. Singular also means plural.
10. HOOGHLY CSL has the right to award work, part or in full to a single party or multiple parties as deemed fit. Also, HOOGHLY CSL shall have the right to issue work order & supply order separately.
11. During the evaluation of tender, HOOGHLY CSL may seek clarifications from the bidders. Clarification if any shall be given in writing/e-mail. HOOGHLY CSL decision will be final and binding on the bidder.
12. For items not existing in the Bill of Quantities (Extra work), rate payable shall be determined by methods given below and, in the order, given below and whichever is lower shall be paid;
 - a. Rates and prices of relevant item in the Delhi Schedule of Rates 2023 plus cost index applicable for Kolkata/Howrah, West Bengal plus/ minus Ruling Percentage.
 - b. Market rates of materials and labour, hire charges of plant and machinery used, plus 15% extra for overheads and profits of Contractor. Contractor has to furnish site observed data jointly certified by contractor, employer for computing local market rates along with supporting documents such as tax invoice of materials procured, labour deployment log book, work order/purchase order showing hire charges of plant and machinery, work order showing labour rates etc. to employer.
13. For items not listed in the bill of quantities, but can be considered as Substituted items, rate payable shall be determined as below:
Rates and prices derived from the accepted rate of similar items in Contract. If there is delay in the Employer and the Contractor coming to an agreement on the rate of an Extra work/ Substituted items, rates as proposed by the Employer shall be payable provisionally till such time the rates are finally determined or till such date rates are mutually agreed.
14. Security deposit/Performance guarantee will be released only after attending all the defects pointed out to the contractor during the defect liability period/guarantee/warranty period. Any work which are not attended/replaced during the defect liability period within a reasonable time given by Officer in charge /Engineer, the work will be carried out at the risk and cost of the contractor by Hooghly CSL.



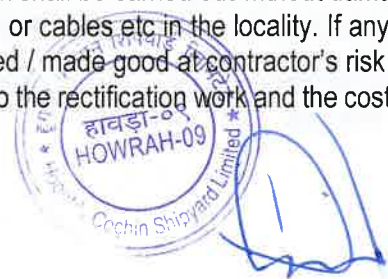
16. The site will be available for work during office hours (08:30 Hrs to 17:30 Hrs.) only. However, if the Contractor wishes to carry out the work beyond normal working hours or on holidays, he should get specific approval from the Officer-in-Charge.
17. The work shall be inspected by the Officer –in – Charge /Engineer, his authorised representative deputed by the Officer –in – Charge. Officer–in – Charge /Engineer will have full liberty to impose penalties for the violation of any of the agreement clauses.

18. General conditions on work part:

- 18.1. Hooghly Cochin Shipyard Limited reserves the right to make minor alterations, additions or substitutions to the existing specifications/scope of work, if found necessary during the progress of work and the contractor is bound to carry out the work without any additional cost, as per such altered specifications.
- 18.2. The completion of work may entail working in monsoon period/ rainy season also. The contractor shall take such events into consideration while quoting for the work. The contractor must maintain sufficient labour force for the timely completion of work as per the prescribed schedule. No extra rate will be admissible for work in monsoon/rainy season. During monsoon and other period, it shall be the responsibility of the contractor to keep the work site free from water at his own cost and ensure safety of their workmen and materials.
- 18.3. All labour, skilled or unskilled shall be provided by the contractor. Settling any dispute with the labour, subcontractor, labour union shall be the sole responsibility of the contractor. Workers engaged for works should have sufficient knowledge and experience in the respective fields.
- 18.4. The contractor should take insurance for the men and materials till the handing over of the entire system to Yard. The contractor is bound to meet the expenses or defence of any action of legal proceedings that may be brought by any person for injury sustained owing to neglect of safety precaution and to pay damages and costs which may be awarded in consequence as per rules in force. It is the responsibility of the contractor to ensure that workmen engaged in the work should wear safety appliances like helmet, safety shoes, safety belts etc. and should strictly comply with Yard Safety Rules and Regulations in vogue. For obtaining entry permission of workmen into the company premises, the contractor has to furnish the identity proof of those persons to be engaged [Passport/Electron Identity card etc. If required, police clearance certificate shall also be submitted. They should carry / display the pass issued by Yard authorities during the entire span while in Yard. The contractor has to abide by all relevant Labour Regulations and enactments as applicable to the contractor and his/their workmen and as amended from time to time without causing or claiming any responsibility or liability thereof to the company.
- 18.5. The workmen are strictly banned from use of any kind of Narcotics drugs / Alcohol /smoking etc. inside Yard and any illegal activity by the work men should be reported to the Officer-in- charge without delay and the contractor shall remove such persons from Yard premises.
- 18.6. The Contractor should furnish their Registration code, ESI/EPF (if applicable) /PAN/GST numbers issued by competent authorities if any. The supporting documents for the same may have to be submitted to HOOGLY CSL in the event of requirement. HOOGLY CSL reserves the right for the deduction of ESI/PF from the bill or invoice, if required.

18.7. Tax elements

- a. The tax rate of the Goods and Services would be as per the Government of India published GST rate schedule for goods & services. The rates have been mapped with HSN& SAC in the rate notification issued by the government. The rate schedule should be referred to identify the applicable rate.
- b. GST ID should be mentioned.
- c. The invoices should be as per the provisions of GST law. The invoices should mandatorily contain the HSN code/SAC and GSTIN number along with other particulars. The GST charged (CGST&SGST or IGST) should be separately indicated in the invoice.
- d. Tax inclusive invoices will not be accepted.
- e. All correction/rectification in the invoices should be done through Debit note/ Credit note only.
- 18.8. The work is to be arranged without affecting construction activities and to other agencies engaged in that area where works are to be carried out and shall be arranged with minimum hindrances. The work shall be carried out without damaging any of the existing structures/structures under construction/ underground pipelines or cables etc in the locality. If any damage occurs to the Yard property, by the contractor's operation shall be compensated / made good at contractor's risk and cost to the satisfaction of the Officer-in-charge of the works, failing which Yard will do the rectification work and the cost incurred



will be recovered from contractor's bill or from security deposit. If contractor fails to clear the dispose/items, Yard is having the right to cleaning the premises and cost involved for the cleaning will be deducted from the contractor's bill.

- 18.9. The entire work should be carried out to the satisfaction of the Officer-in-charge/Engineer of the work. Decisions of the Officer-in-charge/Engineer will be final and binding to the contractor.
- 18.10. The workmanship shall be as per industrial standard in every respect both for the equipment supplied and for the installation carried out. The work should confirm to relevant Indian Standard Specification / other statutory rules wherever necessary/ applicable.
- 18.11. Arrangement of all necessary accessories shall be carried out by contractor for successful completion of work even though not specifically mentioned in the tender/ order. All tools, tackles, accessories and other materials brought into Shipyard for the work shall comply with statutory requirements and shall be declared.
- 18.12. Necessary storage space will be provided by Yard as per the prevailing rules subject to the availability of space. If not, contractor has to make necessary arrangements outside Yard premises at his own cost and risk.
- 18.13. All statutory requirements are to be followed by the contractor. Packing material used if any should be eco-friendly.
- 18.14. All local issue if any to be deal by bidder.
- 18.15. The contractor has to abide by the Contract Labour Act 1970 and rules there under and applicable State Contract Labour Rules and the Yard safety rules and regulations. It is the responsibility of the contractor to follow all safety rules and regulations in force, during the period of contract in Yard, and any violation of the same during the course of work will be at the risk and cost of the contractor and will attract penal action.
- 18.16. Necessary "Work in progress" boards shall be provided by the contractor at locations shown by the Officer –in – Charge/Engineer.
- 18.17. The contractor shall make arrangements for collection, preparing, forwarding and testing of samples (if required) at his cost as directed by the Officer –in – Charge /Engineer. The charges for testing to be borne by the Contractor.
- 18.18. Electrical connections issued to the Agency will be exclusively for their own use and any power sharing with other agencies shall be totally under the risk and cost of the agency to which power supply is allotted.

Bidders shall follow the Security instructions and HSE guidelines as enclosed with the Tender documents.

19. Force Majeure Condition:

Should failure in performance of the contract or part there of arise from war insurrection, restrain imposed by Government, Act of Legislature of other statutory Authority or illegal strike (event like local strike/ hartal etc. in the yard, state or national), riot, legal lock out, flood, bad weather, fire, explosion, pandemic, epidemic, Act of God of any inevitable or unforeseen beyond human capacity which may be construed as reasonable ground for an extension of time. Hooghly CSL may allow such additional time as is mutually agreed, to be justified by the circumstances of the case. The occurrence/ cessation of force majeure situation is to be informed with documentary evidence within 15 days from the date of occurrence or cessation.

20. Risk Purchase: -

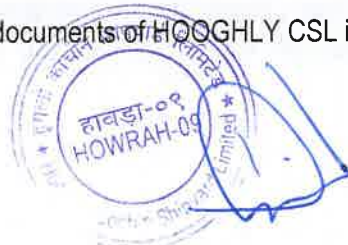
If the contractor fails to complete the work, in time as per the terms in work order, HOOGHLY CSL shall have the following rights.

- a) To terminate the contract within 15 days of notice.
- b) To initiate alternative arrangements at the risk and cost of the contractor.
- c) HOOGHLY CSL reserves the right to terminate the work order at short notice of 3 days in case the firm's performance is found not satisfactory with regard to the progress of work, quality, time factor, labour dispute with their workers, poor safety record and other violation of any contract conditions. No claim whatsoever will be entertained in this regard from the firm.

21. Jurisdiction:

All questions, disputes or difference arising under, out of, or in connection with contracts shall be subject to the exclusive jurisdiction of the Courts at Kolkata, West Bengal, India. Alternate dispute resolution mechanism can also be considered.

General Conditions, technical specifications, Drawings etc. and all tender documents of HOOGHLY CSL is legally binding on the tenderer.



22. USE OF APPROVED MAKES

List of approved makes for use in permanent works is mentioned in the tender. It will be deemed that the contractor has priced the respective items on the basis of the approved makes.

Where a particular brand or make is specified in Bill of Quantities or Technical specification, such brand or make of material shall only be used in the works.

Whenever equivalent is specified in the list of approved makes, permission for use of equivalent make shall be subject to contractor submitting proof of non-availability by way of valid regret letters from the makes listed along with the comparison table of properties of proposed make w.r.t specified make. Also, contractor shall submit sample of equivalent material along with test certificates and other documentary evidences to the Engineer-in-charge for approval. Decision of Engineer-in-charge on approving equivalent makes shall be final and binding on the contractor.

23. SITE HANDING OVER

The site will be handed over in full. However, if this is not possible due to reasons that cannot be anticipated now, site shall be handed over in multiple phases based on the exigency of work. If there is any delay in work due to delay in handing over of site by HOOGHLY CSL which is not attributable to the contractor, proportionate extra time will be granted if found necessary by the Engineer-in-charge without any additional cost implication and the decision of Engineer-in-charge shall be final.

24. MOBILIZATION ADVANCE

Mobilization advance shall not be applicable for this contract

25. PRICE ADJUSTMENT

Price Adjustment shall not be applicable for this contract

26. SAFETY AND SECURITY PROVISIONS

The Site of Work is a protected area. Contractor shall strictly abide by the rules and regulations of HOOGHLY CSL regarding entry and exit of vehicles, materials, equipment's & contractor's workmen.

All the Contractors and subcontractors shall comply with the measures related to the Quality, Health, and Safety & Environment (QHSE) policy of HOOGHLY CSL. It is the responsibility of the contractor to follow all safety rules and regulations in force, during the currency of contract in HOOGHLY CSL, and any violation of the same during the course of work will be at the risk and cost of the contractor and will attract penal action. Upon any violation of Safety rules by the contractor, safety department will impose penalty of Rs 5,000/- per violation. Action for debarring the contractor also will be taken in case of repeated violations. Any accident caused due to safety violation and any damage to the Employer property suitable penalty will be imposed by HOOGHLY CSL including termination of contract, if required.

27. PROCUREMENT OF MATERIALS

The Contractor shall arrange from the very beginning adequate supply of materials, manpower, stock control items, spare parts etc. so as to ensure that delays or hold-ups do not occur in the commencement and execution of the works. Advance planning for procurement shall be ensured and buffer stock for critical construction items such as reinforcement steel, structural steel, cement, admixtures, aggregates etc. sufficient to carry out at least two weeks of work shall be ensured by the contractor for smooth progress of work.

All the materials to be used in work shall be subjected to the approval of Engineer-in-charge. The contractor shall apply sufficiently in advance with the samples of materials including the supporting test results from the government/NABL accredited laboratory and other documentary evidence from the manufacturer wherever applicable indicating the types of materials and their respective sources. The Engineer-in-charge also reserves the right to conduct additional tests at government laboratories or NABL accredited laboratory at his discretion. The cost of all such tests shall be borne by the contractor. The delivery of material at the site shall be carried out only after the approval of quality, grading and source of materials by Engineer-in-charge. The quality of all material once approved shall be maintained throughout the period of construction and periodic tests shall be carried out to ensure that it is maintained. The guarantees/warranty certificates for all major bought out items, fittings /fixtures are to be handed over to Hooghly CSL prior to use in permanent works.

28. SITE RECORDS TO BE MAINTAINED BY CONTRACTOR



- Detailed work methodology for all major works – Detailed work methodology should be submitted by the contractor at least 14 days prior to date of commencement of respective work and contractor should ensure that no work is commenced without an approved method statement.
- Site records –RFI (Request for inspection), Engineer-in-charge approved formats for pour card, post pour, checklist for fabrication and erection, and inspection records for other works, BBS, consumption statements, Hindrance register etc.
- Quality related documents-Material testing reports, plant and machinery permits and calibration certificates, procurement and consumption statements of the applicable items whatever applicable, NCR etc.

Statutory documents- Workmen attendance register/wage register, EPF/ESIC remittance details, key personnel attendance statement etc.

29. Following declaration signed by the contractor.

“I/WE HAVE INSPECTED THE SITE AND GONE THROUGH THE TENDER TERMS AND CONDITIONS IN FULL AND UNDERSTAND AND ACCEPT THE SAME AND HEREBY TRULY CONFIRM AND DECLARE THAT THE RATES QUOTED IN THE PRICE BID ARE INCLUSIVE OF ALL TAXES, ALL CESS AND DUTIES BUT EXCLUDING GOODS AND SERVICES TAX. I / WE ALSO CONFIRM THAT COVER B (PRICE BID) DO NOT CONTAIN ANY CONDITIONS”

“I/WE HAVE NOT MADE ANY PAYMENT OR ILLEGAL GRATIFICATION TO ANY PERSON/AUTHORITY CONNECTED WITH THE BID PROCESS SO AS TO INFLUENCE THE BID PROCESS AND HAVE NOT COMMITTED ANY OFFENCE UNDER THE PC ACT IN CONNECTION WITH THE BID.”

Signature and Seal of the Bidder(s)



TECHNICAL SPECIFICATION OF MATERIALS AND WORKMANSHIP

1. Scope of Work- Construction of Post Office Building including civil, plumbing & electrical work.
2. The following technical specification, code of practice etc. referred herein is form a part of the Item Specification and work shall be executed accordingly. Items which are not covered under Technical Specification shall be carried out as per relevant IS Specification or BOQ Specification or as per manufactures specification or as directed by Engineer.
3. In case of discrepancy between technical specification and item specification provided along with Bill of Quantities, the Item Specification in Bill of Quantities shall prevail.
4. All the measurements shall be as per latest edition of B.I.S.
5. Contractor is required to submit a methodology of work in conforming to BOQ, technical specification, and conditions of contract and sound engineering practices and get it approved by Engineer before the commencement of any new work.

• **EARTH WORKS**

General –Contractor shall carry out the survey of the site before excavation and set properly all lines and establish levels for various works such as earthwork in excavation for levelling, basement, foundations, plinth filling, roads, drains, cable trenches, pipelines, etc. It is necessary to establish permanent bench mark at such point which will not be affected by subsequent work. Such survey shall be carried out by taking accurate cross sections of the area perpendicular to establish reference/grid lines at 5 m intervals or nearer as determined by Engineer based on ground profile.

The area to be excavated/ filled shall be cleared of fences, trees, plants, logs, slumps, bush, vegetation's, rubbish slush, etc., and other objectionable matter. If any roots or stumps of trees are found during excavation, they shall also be removed. The material so removed shall be disposed of as directed by Engineer. Where earth fill is intended, the area shall be stripped of all loose/soft patches, top soil containing deleterious matter/materials before fill commences.

In firm soil if the excavation is deeper than 2 m and in loose, soft or slushy soil, the width of the step shall be suitably increased or the sides sloped or shoring and strutting may be done as per the Engineer's instructions without any extra cost.

For excavation in trenches for pipes nothing extra shall be payable for the lift irrespective of the depth unless specifically mentioned otherwise in the Schedule of Quantities.

The trenches which are ready for concreting shall be got approved by the Engineer.

The excavated stacked earth shall be refilled in the trenches and sides of foundation in 200 mm layers and the balance surplus shall be first filled in layers in plinth and the remaining surplus shall be disposed of by uniform spreading within the site/outside the site as directed by the Engineer.

Adequate protective measures shall be taken by the Contractor to see that the excavation for the building foundation does not affect the adjoining structure's stability and safety. Contractor will be responsible if he has not taken precaution for the safety of the people, workers property or neighbor's property caused by his negligence during the constructional operations.

Standards -The following Indian Standard Codes, unless otherwise specified herein, shall be applicable. In all cases, the latest revision of the codes shall be referred to.



- a) IS - 1200 Method of measurement of building works.
- b) IS - 3764 Safety code for excavation work.
- c) IS - 3385 Code of practice for measurement of Civil works

Lead –Lead for disposal of excavated material inside the site and at convenient places in the surrounding areas have been specified in the respective items of work and no other extra lead is intended.

Classification –Any earthwork will be classified under any of the following categories:

All kind of Soils –These shall include all kinds containing kankar, sand, silt, moorum and/or shingle, gravel, clay, loam peat, ash, shale, etc., which can generally be excavated by spade, pick-axe and shovel and which is not classified under ordinary rock, and hard rock defined below. This shall also include excavation in macadam and tarred roads and pavements. This shall also include rock boulders up to 200 dm³. Rubble masonry to be dismantled below ground level will also be measured under this item.

Dewatering –If water is met with in the excavations due to springs, seepage, rain or other causes, it shall be removed by suitable diversions, pumping or bailing out and the excavation kept dry whenever so required or directed by the Engineer. Care shall be taken to discharge the drained water into suitable outlets as not to cause damage to the works, crops or any other property. Due to any negligence on the part of the Contractor, if any such damage is caused, it shall be the sole responsibility of the Contractor to repair/restore to the original condition at his own cost or compensate for the damage.

• EARTH FILLING

General –Earth of filling type shall be of as excavated from work site.

Earth filling in trench or others as directed shall be as specified in CPWD specifications. Except that consolidation shall be done by flooding with water. The surface of the consolidated earth filling shall be dressed to the required level or slope and shall not be covered till the Engineer has inspected and approved the sand filling.

Measurements– The length, breadth and depth of consolidated earth shall be measured with steel tape correct to the nearest cm and cubical contents worked out in cubic metres correct to two places of decimal.

Rates –The rates include the cost of material and labour involved in all the operations described in BOQ.

• CONCRETE WORKS

General – The following codes and standards are made a part of the Specifications. All standards, codes of practices referred to herein shall be the latest edition including all applicable official amendments and revisions.

In case of discrepancy between this specification and those referred to herein, this specification shall prevail.

Materials -

- 1) IS 269: Specification for ordinary, rapid hardening and low heat Portland cement.
- 2) IS 455: Specification for Portland blast furnace slag.
- 3) IS 1489: Specification for Portland-pozzolana cement.
- 4) IS 650: Specification for standard sand for testing of cement.
- 5) IS 383: Specification for coarse and fine aggregates from natural sources for concrete.
- 6) IS 2386 (Parts I to VIII): Methods of test for aggregates for concrete.
- 7) IS 516: Methods of test for strength of concrete.
- 8) IS 1199: Methods of sampling and analysis of concrete.



- 9) IS 2396 (I) IS 5640: Flakiness Index of aggregates.
- 10) IS 3025: Methods of sampling and test (physical and chemical water used in industry).
- 11) IS 432(Part I & II): Specification for mild steel and medium tensile steel bars and hard drawn steel wire for concrete reinforcement.
- 12) IS 1139m: Specification for hot rolled mild steel and medium tensile steel deformed bars for concrete reinforcement.
- 13) IS 1566: Specification for plain hard drawn steel wire fabric for concrete reinforcement.
- 14) IS 4990: Specification for plywood for concrete shuttering work.

Codes of Practice -

1. IS 456: Code of practice for plain and reinforced concrete.
2. IS 2502: Code of practice for bending and fixing of bars for concrete

Reinforcement

3. IS 3558: Code of practice for use of immersion vibrators for consolidating concrete.
4. IS 3414: Code of practice for design and installation of joints in structure.
5. IS 2571: Code of practice for laying in-situ - cement concrete flooring

Measurement

6. IS 1200: Method of measurement of building works.
7. IS 3385: Code of practice for measurement of civil engineering works

General - The quality of materials, method and control of manufacture and transportation of all concrete work irrespective of mix, whether reinforced or otherwise shall conform to the applicable portions of this specification.

Materials - The ingredients to be used in the manufacture of standard concrete shall consist solely of standard type Portland cement, clean sand, natural coarse aggregate, clean water and admixtures.

Cement- While supplying Cement Contractor shall follow the points provided below:

- a. The cement to be used shall be Grade OPC/PPC/PSC of approved grade 43 & 53 conforming to IS: 8112- 1989/IS: 1489 part I / IS 455 respectively unless otherwise mentioned. As far as possible, all the cement shall be obtained from a single source throughout the contract. Cement of different types shall not be mixed together. Different brands of cements or same brand of cement from different sources shall not be used without prior approval of the Engineer.

The cement shall be delivered at site in original sealed bags which shall be labelled with the weight, date of manufacture, brand and type. Cement received in torn or hand-stitched bags shall not be used. For volumetric batching of concrete, cement should be mixed only by box measurement. All cement should be fresh when delivered and shall be stored in an approved manner in stores built by the Contractor at his own cost. Set cement shall not be allowed to be used for any work. Site blending of the cement is not permitted.

- b. A certified report attesting to the conformance of the cement to IS specifications by the cement manufacturer's chemist shall be furnished to engineer if demanded.
- c. Cement held in storage for a period of sixty (60) days or longer shall be tested. Should at any time Engineer have reasons to consider that any cement is defective, then irrespective of its origin, and/or manufacturer's test certificate, such cement shall be tested immediately at contractor's cost at an approved laboratory and until the results of such tests are found satisfactory, it shall not be used in any work. Contractor shall not be entitled to any claim of

any nature on this account.

- d. Contractor will have to make his own arrangements for storage of adequate quantity of cement.
- e. The Engineer shall be regularly notified when supplies of cement are made to the site store. Copies of invoices shall be made available to the site engineer and a common cement register shall be kept at his office showing the supply stock and issue on a daily basis.

Minimum cement content for different grade of concrete shall be on the basis of relevant exposure conditions.

- For land area exposure is to be assumed as "severe"
- For marine area exposure is to be assumed as "very severe"

Aggregates - Aggregate in general designates both fine and coarse inert materials used in the manufacture of concrete. Fine aggregate is aggregate all of which passes through 4.75 mm IS sieve. Coarse aggregate is aggregate most of which is retained on 4.75 mm sieve. Specification mentioned against various item of work may also be followed.

All fine and coarse aggregates proposed for use in the work shall be subject to Engineer's approval and after specific materials have been accepted the source of supply of such materials should not be changed without prior approval of Engineer.

Aggregates shall, except as noted above, consist of natural sands, crushed stone and gravel from a source known to produce satisfactory aggregate for concrete and shall be chemically inert, strong, hard, durable against weathering, of limited porosity and free from deleterious materials that may cause corrosion of the reinforcement or may impair the strength and/or durability of concrete. The grading of aggregates shall be such as to produce a dense concrete of specified strength and consistency that will work readily into position without segregation and shall be based on the mix design and preliminary tests on concrete specified later.

Sampling and testing

Samples of the aggregates for mix design and determination of suitability shall be taken under the supervision of Engineer and delivered to the laboratory, well in advance of the scheduled placing of concrete. Records of tests which have been made on proposed aggregates and on concrete made from this source of aggregates shall be furnished to Engineer in advance of the work for use in determining aggregate suitability. The costs of all such tests, sampling, etc., shall be borne by contractor.

Storage of Aggregates

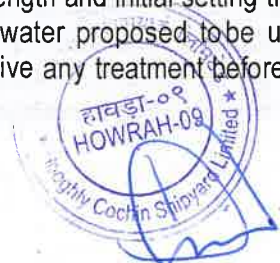
All coarse and fine aggregates shall be stacked in stock separately in stock piles in the materials yard near the work site or if instructed in bins properly constructed to avoid inter mixing of different aggregates. Contamination with foreign materials and with earth during storage and while heaping the materials shall be avoided. The aggregate must be of specified quality not only at the time of receiving at site but more so at the time of loading into mixer.

Screening and Washing

- a) Sand shall be prepared for use for such screening or washing, or both, as necessary, to remove all objectionable foreign matter while separating the sand grains to the required size fractions.
- b) Natural gravel and crushed rock shall be screened and/or washed for the removal of dirt or dust coating, if so, demanded by Engineer.

Water - Water used for both mixing and curing shall be free from injurious amounts of deleterious materials. Potable waters are generally satisfactory for mixing and curing concrete.

The suitability of water for making concrete shall be ascertained by the compressive strength and initial setting time test specified in IS-456. The sample of water taken for testing shall be typical of the water proposed to be used for concreting, due account being paid to seasonal variation. The sample shall not receive any treatment before testing



other than that envisaged in the regular supply of water proposed for use in concrete. The sample shall be stored in a clean container previously rinsed out with similar water.

General Requirements of RMC - The contractor is allowed to use RMC instead of batching plant, but without any extra COST. Ready Mixed Concrete shall conform to IS 4926 and technical specifications as stipulated in CPWD latest edition shall be strictly followed.

Basis of Supply: - Ready-mixed concrete shall be supplied having the quality and the quantity in accordance with the requirement agreed with the purchaser or his agent. Notwithstanding this, the concrete supplied shall generally comply with requirements of IS 456. All concrete will be supplied and invoiced in terms of cubic metres (full or part) of compacted fresh concrete. All proportioning is to be carried out by mass except water and admixture, which may be measured by volume.

Transport of Concrete: Ready-mixed concrete shall be transported from the mixer to the point of placing as rapidly as practicable by methods that will maintain the required workability and will prevent segregation, loss of any constituents or ingress of foreign matter or water. The concrete shall be placed as soon as possible after delivery, as close as is practicable to its final position to avoid re-handling or moving the concrete horizontally by vibration. If required by the purchaser the producer can utilize admixtures to slow down the rate of workability loss, however this does not remove the need for the purchaser to place the concrete as rapidly as possible. The purchaser should plan his arrangements so as to enable a full load of concrete to be discharged within 120 minutes of arrival on site. Concrete shall be transported in a truck-mixer unless the purchaser agrees to the use of non-agitating vehicles.

Batching Plants and Batching Equipment - Hoppers for weighing cement, mineral admixtures, aggregates and water and chemical admixture (if measured by mass) shall consist of suitable container freely suspended

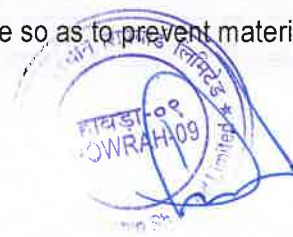
from a scale or other suitable load-measuring device and equipped with a suitable discharging mechanism. The method of control of the loading mechanism shall be such that, as the quantity required in the weighing hopper is approached the material may be added at controllable rate and shut off precisely within the weighing tolerances specified in CPWD specifications. The weighing hoppers for cement, mineral admixtures and aggregates shall be capable of receiving their rated load, without the weighed material coming into contact with the loading mechanism. Where the rated capacity of a batching plant mixing cycle is less than 2.0 m³, additional precautions shall be taken to ensure that the correct number of batches are loaded into the truck mixer. The weighing hoppers shall be constructed so as to discharge efficiently and prevent the buildup of materials. Dust seals shall be provided on cement hoppers between the loading mechanism and the weigh hopper, and shall be fitted so as to prevent the emission of cement dust and not affect weighing accuracy. The hopper shall be vented to permit escape of air without emission of cement dust.

Vibrator or other attachment, where fitted, shall not affect the accuracy of weighing. There shall be sufficient protection to cement and aggregate weigh hoppers and weighing mechanisms to prevent interference with weighing accuracy by weather conditions or external build-up of materials. Where chemical admixture dispensers are used, they shall be capable of measurement within the tolerance and calibrated container or weigh scales shall be provided to check the accuracy of measurement at least once a month.

Each control on the batching console and weigh-dial or display shall be clearly labeled with its function and where concerned with the batching of materials, the materials type. When more than one type or grade of cement is being used, the weighing device and discharge screw or other parts of the transfer system shall be empty before changing from one type of cement to another. When more than one type or grade of cement is being used, the weighing device and discharge screw or other parts of the transfer system shall be empty before changing from one type of cement to another.

When pulverized fuel ash and other mineral admixtures are batched through the cement weigh system, the weighing device and discharge screw or other parts of the transfer system shall be empty when the weighing system has returned to zero reading or completed the batch.

Where a back weigh system is utilized to weigh materials, a system shall be in place so as to prevent materials being loaded during the process of weighing.



Mix Design -

Classification - In case of concrete works, mix design may be necessary as per IS:456 and Mix design Code (IS 10262 latest) for certain items as directed by Engineer. All concrete in the works shall be of design mix as defined in IS 456, unless it is a nominal mix concrete such as 1:1.5:3, 1:2:4, 1:3:6, 1:4:8, 1:5:10. Whether reinforced or otherwise, all design mix concrete works to be carried out under this specification shall be divided into the following classifications.

Class	Specified Characteristic Compressive Strength of 15cm Cube at 28 Days in	Assumed Standard Deviation as per table no.8 of IS 456	Max. size of aggregate mm
M 40	40.0	5.0	20
M 35	35.0	5.0	20
M 30	30.0	5.0	20
M 25	25.0	4.0	20
M 20	20.0	4.0	20
M 15	15.0	3.5	20

It shall be very clearly understood that whenever the class of concrete such as M 20 is specified it shall be the Contractor's responsibility to ensure that minimum crushing strength stipulated for the respective class of concrete is obtained at works. The maximum total quantity of aggregate by weight per 50 kg of cement shall not exceed 250 kg except when otherwise specifically permitted by Engineer.

To fix the grading of aggregates, water cement ratio, workability and the quantity of cement required to give preliminary and works cubes of the minimum strength specified, the proportions of the mix shall be determined by weight. Adjustment of aggregate proportions due to moisture present in the aggregate shall be made. Mix proportioning shall be carried out according to Indian Standard Specifications.

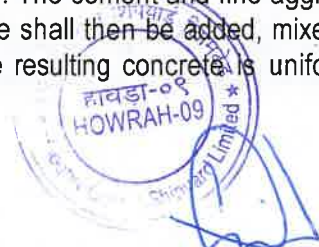
Whenever there is a change either in required strength of concrete or water cement ratio or workability or the source of aggregates and or cement, preliminary tests shall be repeated to determine the revised proportions, of the mix to suit the altered conditions.

While fixing the value for water cement ratio for preliminary mixes, assistance may be derived from the graph (appendix IS 456) showing the relationship between the 28-day compressive strengths of concrete mixes with different water cement ratios and the 7 days compressive strength of cement tested in accordance with IS 269.

Preliminary tests - Test specimens shall be prepared with at least two different water/cement ratios for each class of concrete, consistent with workability required for the nature of the work. The materials and proportions used in making preliminary tests shall be similar in all respects to those to be actually employed in the works as the object of these tests is to determine the proportions of cement, aggregates and water necessary to produce concrete of required consistency and to give the specified strength. It will be the Contractor's sole responsibility to carry out these tests and he shall therefore furnish to Engineer a statement of proportions proposed to be used for the various concrete mixes.

Materials shall be brought to the room temperature and all materials shall be in a dry condition. The quantities of water, cement and aggregates for each mix shall be determined by weight/volume to an accuracy of 1 part in 1000 parts.

Mixing shall be done by a batching plant in such a manner as to avoid loss of water. The cement and fine aggregate shall first be mixed dry until the mixture is uniform in colour. The coarse aggregate shall then be added, mixed and water added and mixed thoroughly for a period of not less than 3 minutes until the resulting concrete is uniform in



appearance. Each mix of concrete shall be of such a quantity as to leave about 10% excess concrete after moulding the desired number of test specimens.

The consistency of each mix of concrete shall be measured immediately after mixing, by the slump test in accordance with IS 1199. If in the slump test, care is taken to ensure that no water or other materials is lost, the materials used for the slump test may be remixed with the remainder of the concrete for making the specimen test cubes. The period of remixing shall be as short as possible yet sufficient to produce a homogeneous mass.

Compression tests of concrete cubes shall be made as per IS 516 on 15 cm cubes. Each mould shall be provided with a metal base having a plane surface so as to support the mould during filling without leakage. The baseplate shall be preferably attached to the mould by springs or screws. The parts of the mould when assembled shall be positively and rigidly held together. Before placing concrete, the mould and base plate shall be cleaned and oiled. The dimensions and internal faces of the mould shall be accurate within the following limits:

Height and distance between the opposite faces of the mould shall be of specified size plus or minus 0.2 mm. The angle between the adjacent internal faces and between internal faces and top and bottom planes of mould shall be 90 Deg. plus or minus 5 Deg. The interior faces of the mould shall be plane surfaces with a permissible variation 0.03 mm.

Concrete test cubes shall be moulded by placing fresh concrete in the mould and compacted as specified in IS 516.

Curing shall be as specified in IS 516. The cubes shall be kept in moist air of at least 90% relative humidity at a temp. Of 27 Deg. Cent. Plus, or minus 2 Deg. Cent. For 24 hours plus or minus half hour from the time of adding water to the dry ingredients. Thereafter they shall be removed from the mould and kept immersed in clean, fresh water and kept at 27 Deg. Cent. Plus, or minus 2 Deg. Cent. Temp. Until required for test. Curing water shall be renewed every seven days. A record of maximum and minimum temperatures at the place of storage of the cubes shall be maintained during the period they remain in storage.

Testing of specimens

The strength shall be determined based on not less than five cubes test specimens for each age and each water cement ratio. All these laboratory test results shall be tabulated and furnished to Engineer. The test result shall be accepted by Engineer if the average compressive strengths of the specimens are tested subject to the condition that only one out of the five consecutive tests may give a value less than the specified strength for that age. The Engineer may direct the Contractor to repeat the tests if the results are not satisfactory and also to make such changes as he considers necessary to meet the requirements specified. All these preliminary tests shall be conducted by the Contractor at his own cost in an approved laboratory.

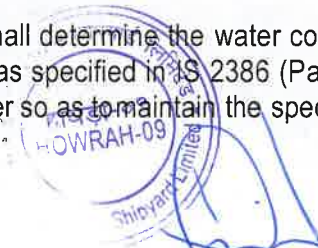
Proportioning, consistency, batching and mixing of concrete

Aggregate - The proportions which shall be decided by conducting preliminary test shall be by volume. These proportions of cement, fine and coarse aggregates shall be maintained during subsequent concrete mixing. The supply of properly graded aggregate of uniform quality shall be maintained over the period of work, the grading of aggregates shall be controlled by obtaining the coarse aggregate in different sizes and blending them in the right proportions. The different sizes shall be stocked in separate stock piles. The grading of coarse and fine aggregate shall be checked as frequently as possible as determined by Engineer, to ensure maintaining of grading in accordance with the samples used in preliminary mix design. The material shall be stock piled well in advance of use.

Cement - The cement shall be measured by weight.

Water - Only such quantity of water shall be added to the cement and aggregates in the concrete mix as to ensure dense concrete, specified surface finish, and satisfactory workability, consistent with the strength stipulated for each class of concrete as per approved nominal mix ratio. The water added to the mix shall be such as not to cause segregation of material or the collection of excessive free water on the surface of the concrete.

The W/C ratio specified for use by Engineer shall be maintained. The Contractor shall determine the water content of the aggregates as frequently as directed by Engineer as the work progress and as specified in IS 2386 (Part-III) and the amount of water added at the mixer shall be adjusted as directed by Engineer so as to maintain the specified



W/C ratio. To allow for the variation in volume of aggregates due to variation in their moisture content suitable adjustments in the volume of aggregates shall also be made.

Slumps for Various Types of Construction

Placing Conditions	Degree of Workability	Slump (mm)
Blinding concrete: Shallow sections; Pavements using pavers Mass concrete:	Very low	25-75
Lightly reinforced sections in slabs, beams, walls, columns: Floors; Hand placed pavements;	Medium	50-100 75-100
Canal lining; Strip footings Heavily reinforced sections in slabs, beams, walls, columns; Slip form work; Pumped concrete Trench fill; <i>In-situ pilling Tremie concrete</i>	High	100-150
	Very high	150-180

Curing, protecting, repairing and finishing

Curing - All concrete shall be cured by keeping it continuously damp for the period of time required for complete hydration and hardening to take place. Preference shall be given to the use of continuous sprays or ponded water continuously saturated covering of sacks, canvas, hessian, polythene sheets or other absorbent materials, or approved effective curing compounds applied with spraying equipment capable of producing a smooth, even textured coat. Extra precautions shall be exercised in curing concrete during cold and hot water as outlined hereinafter. The quality of curing water shall be the same as that used for mixing concrete.

Certain types of finish or preparation for overlaying concrete must be done at certain stage of the curing process and special treatment may be required for specific concrete surface finish.

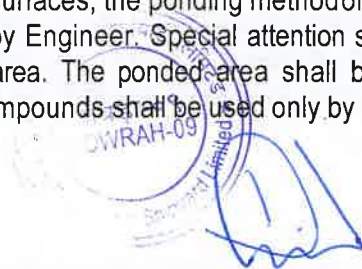
Curing of concrete made of high alumina cement and super sulphated cement shall be carried out as directed by Engineer.

Fresh concrete shall be kept continuously wet for a minimum period of 15 days from the date of placing of concrete following a lapse of 12 to 14 hours after laying of concrete. The curing of horizontal surfaces exposed to the drying winds shall however begin immediately the concrete has hardened. Water shall be applied uniformly to concrete surfaces within 1 hour after concrete has set. Water shall be applied to formed surfaces immediately upon removal of forms. Quantity of water applied shall be controlled so as to prevent erosion of freshly placed concrete.

Curing shall be assured by use of an ample water supply under pressure in pipes with all necessary appliance of hose, sprinklers and spraying devices. Continuous fine mist spraying or sprinkling shall be used, unless otherwise specified or approved by Engineer.

Whenever, by the judgment of Engineer, it may be necessary to omit the continuous spray method, a covering of clean sand or other approved means such as wet gunny bags which will prevent loss of moisture from the concrete, may be used. No type of covering will be approved which would stain or damage the concrete during or after the curing period. Covering shall be kept continuously wet during the curing period.

For curing of concrete in pavements, side-walks floors, flat roofs or other level surfaces, the ponding method of curing is preferred. The method of containing the ponded water shall be approved by Engineer. Special attention shall be given to edges and corners of the slabs to ensure proper protection to this area. The ponded area shall be kept continuously filled with water during the curing period. Surface coating type compounds shall be used only by special



permission of Engineer, curing compounds shall be liquid type white pigmented. Other curing compounds shall be used on surfaces where future blending with concrete, water or acid proof membrane or painting is specified.

All equipment and materials required for curing shall be on hand and ready for use before concrete is placed.

• FORM WORK

General- The formwork shall consist of shores, bracings, sides of beams and columns, bottom of slabs, etc., including ties anchors, hangers insert, etc., complete which shall be properly designed and planned for the work. False work shall be so constructed that necessary adjustment can be made to compensate for take up and settlements. Wedge may be used at the top or bottom of timber shores but not at both ends to facilitate vertical adjustment or dismantling of the formwork.

Type of formwork - Formwork may be of timber, plywood, metal, plastic or concrete. For special finishes the formwork may be lined with plywood, steel, sheets, tempered hard board, etc. Sliding forms and slip forms may be used with the approval of Engineer.

Form work requirements - Forms shall conform to the shapes, lines, grades and dimensions including camber of the concrete as called for on the drawings. Ample studs, braces, ties, straps, etc., shall be used to hold the forms in proper position without any distortion whatsoever until the concrete is set sufficiently to permit removal of forms. Forms shall be strong enough to permit the use of immersion vibrators. In special cases form vibrators may also be used. The shuttering shall be close boarded. Timber shall be well seasoned, free from sap, shakes, loose knots, worm holes, warps or other surface defects in contact with concrete. Faces coming in contact with the concrete shall be free from adhering grout, plaster, paint, projecting nails, splits or other defects. Joints shall be sufficiently tight splits or other defects. Joints shall be sufficiently tight to prevent loss of water or any fine material from concrete.

Plywood shall be used for exposed concrete surfaces; where called for. Sawn and wrought timber may be used for unexposed surfaces. Inside faces of forms for concrete surfaces which are to be rubbed finished shall be planned to remove irregularities or unevenness in the face. Formwork with linings shall be permitted.

All new and used form timber shall be maintained in a good condition with respect to shape, strength, rigidity, water tightness, smoothness and cleanliness of surfaces. Form timber unsatisfactory in any respect shall not be used and if rejected by Engineer shall be removed from the site.

Formwork, during any stage of construction showing signs of distortion or distorted to such a degree that the intended concrete work will not conform to the exact contours indicated on the drawings, shall be repositioned and strengthened. Poured concrete affected by the faulty formwork, shall be removed completely and the formwork be corrected prior to placing of new concrete.

Excessive construction camber to compensate for shrinkage, settlement may impair the structural strength of members and shall not be permitted.

Forms shall be so designed that their removal will not damage the concrete. Face formwork shall provide true vertical and horizontal joints, conform to the architectural features of the structure as to location of joints and be as directed by engineer.

Where exposed smooth or rendered concrete finishes are required the forms shall be constructed with special care so that the resulting concrete surfaces require a minimum finish.

• INSPECTION & TESTS OF ELECTRICAL COMPONENTS:

1. The Contractor shall offer each and every equipment for test at the works or otherwise test certificate shall be furnished in case inspection is waited.
2. All the materials shall be approved before starting the work.
3. PVC switchboards shall be ISI and approved make.
4. Wiring shall be approved before boards or blocks are fixed up.
5. Casing-N-Capping / Conduit pipes shall be inspected before erection.



6. Mounting arrangement of the ceiling fans / light fittings / spotlights shall be inspected and approved by the Site Engineer, HOOGHLY CSL.
7. Connections to earth electrodes shall be inspected and got approved by the Site Engineer, HOOGHLY CSL, prior to connection.

• Warranty

1. The offered LED Lighting Fixtures including the drivers shall be guaranteed for a minimum period of 24 Months.
2. The vendor shall have final and total single point responsibility for the design and performance of the LED lighting fixture, driver, control gear and all components supplied under this specification.
3. The supplier shall,
 - i) Warrant that the LED lighting fixture, driver and all materials to be free from defects in Design, material and workmanship.
 - ii) Warrant that the LED lighting fixture will satisfy the requirements of the intended use and be suitable for the application.



✓ **LIST OF APPROVED MAKES (Use of Equivalent requires prior approval of EIC)**

1	Cement	Ultra Tech, Ramco, ACC, India Cements, Dalmia, Ambuja, Vikram, JSW Cement etc. or any other approved brand
2	Built up Sections	Tata, Vizag, SAIL, Jindal Steel & Power Ltd , ESSAR, Apollo
3	Reinforcement Steel	Tata, Vizag, SAIL, TISCO, IISCO, RINL , Jindal Steel and Power Ltd, JSW Steel Ltd
4	Teak Wood	Best Quality Plantation teak
5	Hard Wood	Best Quality treated jack, Sal Wood, Irul, Anjili, Thambakom, Cherutheku
6	Vitrified tile	Euro Ceramic Ltd, Kerroges, Nitco, Kajaria, RAK Ceramics India, Mirage Ceramics Pvt. Ltd, Orient Bell, Swastik Ceracon Ltd or equivalent as approved
7	Ceramic Tiles	Kajaria, Regency, Nitco, RAK, Mirage Ceramics Pvt. Ltd, Naveen, Orient Bell, Swastik Ceracon Ltd. Or equivalent as approved
8	Concrete Paver blocks	Basant Beton, Conwood, Automatic, Amcon, Sirex or equivalent as approved
9	Paint & Primer, Distemper	ICI (Akzonobel), Berger, Asian, Jotun, Duluxe or equivalent as approved
10	Water Proof Cement paint	Super Snowcem, Supercem or equivalent as approved
11	Wall Putty	Birla White, JK, NCL, Altek, Berger, ICI or equivalent as approved
12	Primer	Altek, Berger, Asian, ICI , Jotun or equivalent as approved
13	Synthetic Enamel Paints & Primer	ICI (Akzonobel), Asian Paints, Berger, Jotun or equivalent as approved
14	Epoxy Paint	ICI (Akzonobel), Asian Paints, Berger, Jotun or equivalent as approved
15	Particle board	Action TESA, Century Prowud, Greenpanel, NCL Bison Panel Jacksons (Exterior grade), Associate or equivalent as approved
16	EPDM Gaskets	Osaka Rubber Private Limited, AMEE Rubber Industries Pvt. Ltd or equivalent as approved
17	Glass Processing	Sain Gobain, AIS Glass Solutions Ltd, Gold Plus Group, GSC Toughened Glass Pvt. Ltd., Sejal Architectural Glass Limited, Impact Safety Solutions Ltd, TPRS Enterprises Pvt. Ltd, FUSO Glass india Pvt. Ltd or equivalent as approved
18	Aluminum Structural Members	Hindalco Industries Ltd, Jindal Aluminium Ltd, Indalco Alloys or equivalent as approved.
19	PVC/UPVC/CPVC pipes	Astral/Supreme/Ashirvad
20	Manhole cover	Neco/ Thermodrain
21	Sanitary Fixtures	Duravit, Kohler, Queo, Artize, Jaquar, Toto, Hindware, Grohe, Roca, Essco, Cera
22	Plumbing Fittings	Kohler, Jaquar, Artize, Toto, Grohe, Essco
23	LT PANEL	L & T / Siemens / Schneider / ABB / Legrand/ APJ ELECTRICAL / ABAK ENGG / ZENITH ENGG/MARINE ELECTRICALS
24	DISTRIBUTION BOARDS	LEGRAND / HAGER / SCHNEIDER / C&S Electric/L & T
25	MEDIUM VOLTAGE CABLE	POLYCAB / FINOLEX / RR KABLE
26	CABLE TRAY	INDIANA / OBO BETTERMAN / LEGRAND/PROFAB
27	UPS / INVERTER	APC / DELTA / EATON
28	LT SWITCHGEAR (ALL RANGE)	SIEMENS / SCHNEIDER ELECTRIC / L & T / ABB/LEGRAND
29	LT MCCB	SIEMENS / SCHNEIDER ELECTRIC / L & T / ABB / LEGRAND
30	LT MCB, ELCB, RCBO	SIEMENS / SCHNEIDER ELECTRIC / HAGER /LEGRAND
31	LT SFU	SIEMENS / SCHNEIDER ELECTRIC / L&T / ABB/LEGRAND
32	LT CONTACTORS	SIEMENS / SCHNEIDER ELECTRIC / L & T / ABB
33	CHANGE OVER	ASCO / SOCOMEC / ABB

HOWRAH-09
Limited

	SWITCH	
34	METERS (DIGITAL)	ENERCON / L&T / TRINITY
35	LOAD MANAGER	ENERCON / L&T / TRINITY
36	RELAYS	SIEMENS / SCHNEIDER ELECTRIC / GE / L & T
37	INDICATING LAMPS	SIEMENS / SCHNEIDER ELECTRIC / L & T / ABB
38	LT CAPACITORS	L & T / EPCOS / SEIMENS
39	LUGS	DOWELL'S / JAINSON / COMET
40	CABLE GLAND	JAINSON / COMET / DOWELL'S
41	PVC CONDUITS AND ACCESSORIES	PRECISION / DIAMOND / POLYCAB / ASTRAL
42	CASING CAPING	PRECISION / DIAMOND / LEGRAND
43	M.S. CONDUIT AND ACCESSORIES	AKG / BEC / STEELCRAFT
44	MODULAR SWITCHES, SOCKETS & OTHER ACCESSORIES	LEGRAND / MK - HONEYWELL / PANASONIC
45	METAL CLAD SOCKET WITH MCB	MDS-LEGRAND / SIEMENS / SCAME
46	PVC JUNCTION BOX	SINTEX / CLIPSAL / SPELSBERG
47	WIRES FOR INTERNAL WIRING	POLYCAB / FINOLEX / RRKABLE
48	FLEXIBLE WIRE	POLYCAB / FINOLEX / RRKABLE
49	FLAME PROOF JUNCTION BOX	FCG/SUDHIR/PRATEEK/PROMPT
50	MULTICORE FLEXIBLE CABLE	POLYCAB / FINOLEX / RRKABLE
51	CONNECTORS (COLOURS AS PER PHASE & NEUTRAL)	SALZER / ELEMEX / CONNECTWELL
52	LIGHT FIXTURES	HAVELLS / WIPRO / Crompton /BAJAJ/PHILIPS

Signature and Seal of the Bidder(s)


 For Hooghly CSL

Self-Declaration to be given by the bidder in Letter head

Bid's Reference No. & Date:

Bidder's Name & Address:

Person to be contacted:

Designation:

Telephone No.:

Fax No.:

Email:

1. We do hereby declare that we have not been debarred/black listed by HOOGHLY CSL or by any of the Public Sector Undertaking or Government department etc.
2. If HOOGHLY CSL finds that, we have been blacklisted/debarred by any of the Public Sector Undertaking or Government department, and then HOOGHLY CSL can reject the offer or terminate the contract at any point of time. In such case, we are aware that, security deposit, performance guarantee etc will be forfeited by HOOGHLY CSL. Further we are confirming herewith that, any loss that has happened to HOOGHLY CSL due to this will be compensated by us.

For and on behalf of the firm

(Firms Name & Address)

(Signature of Authorized Signatory)

Name:

Designation

Phone No.:

Seal:

Date:

Place:.....

Acceptance of the Terms & Conditions by the Tenderer

(To be given in the Letter Head of Contractor/Contractor)

1. I/We have understood clearly the Specifications, scope of materials, scope of work, General, Specific and Commercial Terms and Conditions of the Tender. I shall scrupulously abide by the same.
2. I/We have understood clearly that this is a supply/ installation/testing/commissioning work, for which I am/we are required to quote unite price + GST as applicable.
3. I/We certify that to the best of my /our knowledge the particulars furnished above is true.

(Signature with company seal)

For and on behalf of the company

Name & Designation of Signatory.

POWER- OF-ATTORNEY

(ON THE LETTER HEAD OF THE COMPANY)

To
Chief Executive Officer

Administrative Building, HOOGHLY CSL Premises,
Satyen Bose Road, P.O.- Danesh Shaikh Lane,
Nazirgunge, Howrah, West Bengal 711109.

Dear Sir,

We _____ do hereby confirm that
Mr./Ms. _____ (Name and Address) is /are authorized to represent us to
bid, negotiate and conclude the agreement on our behalf with you against Tender No.

We confirm that we shall be bound by all and whatsoever our said agents shall commit.

Yours faithfully,

Signature:

Name & Designation:

For & on behalf of: Signature, name and seal of the certifying authority

Security Instructions and HSE Guidelines

Security Instructions

1. All contractors and their personnel are bound to comply with the security instructions/ orders of the Shipyard issued from time to time.
2. Movements of all persons entering through the Gate should be recorded at the Gate.
3. 100% checking and frisking of all contractors/contract workmen entering into the yard will be done
4. All vehicles carrying materials shall have material entry pass. Such material carrying vehicles shall be permitted entry to the Factory Area on production of material pass. All contractors and their workmen shall keep personal vehicles in the designated parking area.
5. All persons engaged for various works in the Yard through contractors should produce any of the following documents for entry at Site.

Attested copy of any of the documents mentioned below:

- a) Photo identity card issued by government bodies
- b) Electoral identity card with clear photo and address particulars
- c) Driving license with photo and address particulars
- d) Passport/ attested copy of passport with photo and address particulars

HSE Guidelines

Occupational Health, Safety & Environmental requirements of Hooghly Cochin Shipyard Ltd. shall include the following:

1. The contractor (or a sub- contractor performing work on behalf of the contractor) is deemed to comply with the occupational health, safety and environmental policy of the company and also to all operational controls/standard operating procedures and shall undertake the work in total compliance with the HSE requirements of the Yard.
2. The contractor shall undertake the work in total compliance with all applicable legal /statutory requirements related to occupational health, safety and environment effective in Kolkata, in the state of West Bengal.
3. It is the sole responsibility of the contractor to assure that any subcontractors who shall perform works in company lands/facilities/worksites on behalf of the contractor, is also following all HSE requirements of the company and the health/safety/environmental rules effective in the state.
4. The contractor shall provide/implement and operate/practice all occupational health, safety and environmental management measures/facilities for their period of contract, in their activities/at their work sites, which shall be required by the health safety environmental rules established and effective in the state, at their own cost.
5. If any contractor failed to comply with or violated any clauses/requirements of occupational health, safety and environmental rules effective in the state, in their activities or at work sites and the same shall be exposed to the government or any competent authorities upon inspections, the contractor shall solely be responsible for all liabilities caused by his/her action and shall be responsible for paying the penalty and taking the stipulated corrective actions insisted by the authorities within the specified time, at their own cost. Any liability to the company in this regard needs to be compensated by the contractor.
6. Upon the completion of the work, contractor shall clear the area and shall not leave any occupational health/safety/environmental liabilities to the company, from their activities at the worksites.
7. Lifting appliances should be fixed and securely anchored.
8. Any clarification related to HSE requirements of the yard, may be obtained by the contractor from the authorized representative of the contract, prior to the commencement of work.

Annexure-8**VENDOR DETAILS (to be submitted along with TECHNICAL BID)**

1	Name of Bidder/Firm	
2	Registered office Address of Company/firm in Kolkata/Howrah: Local office address at Kolkata/Howrah (if held):	
3	Telephone No./Fax No./Mobile No:	
4	E-mail address:	
5	Names of the contact person & Designation:	1) 2) 3)
6	Type of Entity- Pro-processorship / Partnership firm/company/NSIC/MSME Category etc. (Please attach registration certificate of Firm/Partnership agreement/proprietorship documents)	
7	Cost of Tender Details (DD No. Name of Bank)	
8	PAN Card Number (Self-attested copy of PAN card has to be Submitted)	
	GST Registration No. (Self-attested copy has to be Submitted)	
9	Whether the agency has been blacklisted/de barred or given tender holiday or contract terminated before expiry of the contract period by any govt. autonomous bodies/organizations where bidder has provided services earlier due to deficiencies in service or misconduct etc.	Yes/No (Please tick as applicable) If yes, please furnish details on a separate sheet

- Certified that the above information is true to the best of our belief and information.

Place:

Date:

Signature of Supplier/Authorized signature of firm/agency:

Name of Supplier or authorized signatory of firm/agency:

Designation:

PRE CONTRACT INTEGRITY PACT

HOOGHLY COCHIN SHIPYARD LIMITED

General

This pre-bid pre-contract Agreement (hereinafter called the Integrity Pact) is made on day of the month of....., between, on one hand, the President of India acting through Senior Manager IR & HR, Hooghly Cochin Shipyard Ltd (HCSL) having its registered office at Howrah, West Bengal India (hereinafter called the "PRINCIPAL", which expression shall mean and include, unless the context otherwise requires, his successors in office and assigns) of the First part and M/s..... represented by Shri, Chief Executive Officer (hereinafter called the "BIDDER/Seller" which expression shall mean and include, unless the context otherwise requires, his successors and permitted assigns) of the second part.

WHEREAS the PRINCIPAL proposes to construct 'Turnkey basis job for Design, Supply and Erection of Pre-Engineered steel structure-Warehouse for Material Store and land development work at Hooghly CSL, Howrah' and the BIDDER/Seller is willing to offer/has offered the stores and

WHEREAS the BIDDER is a private company / public company / Government undertaking / partnership/registered export agency, constituted in accordance with the relevant law in the matter and the PRINCIPAL is a Government of India PSU performing its functions on behalf of The President of India.

NOW, THEREFORE,

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

Enabling the PRINCIPAL to obtain the desired said stores/equipment/item at a competition price in conformity with the defined specifications by avoiding the high cost and the distortionary impact of corruption on public procurement, and

Enabling BIDDERS to abstain from bribing or indulging in any corrupt practice in order to secure the contract by providing assurance to them that their competitors will also abstain from bribing and other corrupt practices and the PRINCIPAL will commit to prevent corruption, in any form, by its officials by following transparent procedures.

The parties hereto hereby agree to enter into this Integrity Pact and agree as follows: -

Commitments of the PRINCIPAL

- 1.1 The PRINCIPAL undertakes that no official of the PRINCIPAL, connected directly or indirectly with the contract, will demand, take a promise for or accept, directly or through intermediaries, any bribe,

consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the BIDDER, either for themselves or for any person, organization or third party related to the contract in exchange for an advantage in the bidding process, bid evaluation, contracting on implementation process related to the contract.

- 1.2 The PRINCIPAL will, during the pre-contract stage, treat all BIDDERS alike and will provide to all BIDDERS the same information and will not provide any such information to any particular BIDDER which could afford an advantage to that particular BIDDER in comparison to other BIDDERS.
- 1.3 The officials of the PRINCIPAL will report to the appropriate Government office any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.
2. In case any such preceding misconduct on the part of such official(s) is reported by the BIDDER to the PRINCIPAL with full and verifiable facts and the same is prima facie found to be correct by the PRINCIPAL, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings may be initiated by the PRINCIPAL and such a person shall be debarred from further dealings related to the contract process. In such a case while an enquiry is being conducted by the PRINCIPAL the proceedings under the contract would not be stalled.

3. Commitments of BIDDERS

The BIDDER commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre-contract

or post-contract stage in order to secure the contract or in furtherance to secure it and in particular commit itself to the following: -

- 3.1 The BIDDER will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the PRINCIPAL, connected directly or indirectly with the bidding process, or to any person, organization or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the contract.
- 3.2 The BIDDER further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the PRINCIPAL or otherwise in procuring the Contract or forbearing to do or having done any act in relation to the obtaining or execution of the contract of any other contract with the government for showing or forbearing to show favour or disfavor to any person in relation to the contract of any other contract with the Government.
- 3.3 BIDDERS of foreign origin shall disclose the name and address of their Indian agents and representatives, if any and Indian BIDDERS shall disclose their foreign principals or associates, if any.
- 3.4 BIDDERS shall disclose the payments to be made by them to their Indian agents/brokers or any other intermediary, in connection with this bid/contract and the payments have to be in Indian Rupees only.

- 3.5 The BIDDER further confirms and declares to the PRINCIPAL that the BIDDER is the original manufacturer/ integrator/authorized agent of the stores/equipment/items and has not engaged any individual or firm or company whether Indian or foreign to intercede, facilitate or in any way to recommend to the PRINCIPAL or any of its functionaries, whether officially or unofficially to the award of the contract to the BIDDER, nor has any amount been paid, promised or intended to be paid to any such individual, firm or company in respect of any such intercession, facilitation or recommendation.
- 3.6 The BIDDER, either while presenting the bid or during pre-contract negotiations or before signing the contract, shall disclose any payments he has made, is committed to or intends to make to officials of the PRINCIPAL or their family members, agents, brokers or any other intermediaries in connection with the contract and the details of services agreed upon for such payments.
- 3.7 The BIDDER will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract.
- 3.8 The BIDDER will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.
- 3.9 The BIDDER shall not use improperly, for purposes of competition or personal gain, pass on to others, any information provided by the PRINCIPAL as part of the business relationship, regarding plans, technical proposals and business details, including information contained in any electronic data carrier. The BIDDER also undertakes to exercise due and adequate care lest any such information is divulged.
- 3.10 The BIDDER commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.
- 3.11 The BIDDER shall not instigate or cause to instigate any third person to commit any of the actions mentioned above.
- 3.12 If the BIDDER or any employee of the BIDDER or any person acting on behalf of the BIDDER, either directly or indirectly, is a relative of any of the officers of the PRINCIPAL, or alternatively, if any relative of an officer of the PRINCIPAL has financial interest/stake in the BIDDER's firm, the same shall be disclosed by the BIDDER at the time of filing of tender.

The term 'relative' for this purpose would be as defined in section 6 of the Companies Act 1956.

- 3.13 The BIDDER shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee or the PRINCIPAL.

4. Previous Transgression

- 4.1 The BIDDER declares that no previous transgression occurred in the last three years immediately before signing of this Integrity Pact, with any other company in any country in respect of any corrupt practices envisaged hereunder or with any Public Sector Enterprise in India or any Government Department in India that could justify; BIDDER's exclusion from the tender process.
- 4.2 The BIDDER agrees that if it makes incorrect statement on this subject, BIDDER can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

5. Earnest Money (Security Deposit)

- 5.1 While submitting commercial bid, the BIDDER shall deposit an amount of **Rs. 51,000/-** as Earnest Money as applicable/Security Deposit, with the PRINCIPAL through any of the following instruments:
- (i) Bank Draft or Pay Order in favor of HCSL.
 - (ii) A confirmed guarantee by an Indian Nationalized Bank, promising payment of the guaranteed sum to the PRINCIPAL on demand within three working days without any demur whatsoever and without seeking any reasons whatsoever. The demand for payment by the PRINCIPAL shall be treated as conclusive proof of payment.
 - (iii) Any other mode or through any other instrument (to be specified in the SRF).
- 5.2 The Earnest Money if applicable/Security Deposit shall be valid up to the complete conclusion of the contractual obligations to the complete satisfaction of both the BIDDER and the PRINCIPAL, including warranty period.
- 5.3 In case of the successful BIDDER a clause would also be incorporated in the Article pertaining to Performance Bond in the Purchase Contract that the provisions of sanctions for Violation shall be applicable for forfeiture of Performance Bond in case of a decision by the PRINCIPAL to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.
- 5.4 No interest shall be payable by the PRINCIPAL to the BIDDER on Earnest Money/Security Deposit for the period of its currency.
- 5.5 EMD of bidders (unsuccessful during first stage i.e. technical evaluation etc.) shall be returned after declaration of result of first stage i.e. technical evaluation.
- 5.6 EMD of bidders (unsuccessful after price bid opening) will be released after issuance of work order and its acceptance by the contractor to whom the work is awarded.
- 5.7 EMD of the successful bidder will be refunded after remittance of the security deposit.

5.8 EMD deposited with the Client will be forfeited,

- (i) if a bidder withdraws or modifies his bid during the period of validity specified or
- (ii) if the successful bidder fails within the time limit to sign the agreement document or fails to furnish the required security deposit.
- (iii) Request for enhancement in the quoted rates or bringing in new conditions after tender opening or unnecessary delayed acceptance of the order / commencement of work / submission of Security Deposit.

5.9 The relevant documents pertaining to the EMD should be enclosed with Techno- commercial Bid. Tenders Received Without EMD Will Not Be Considered For Further Evaluation.

6 Sanctions for Violations

6.1 Any breach of the aforesaid provisions by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER) shall entitle the PRINCIPAL to take all or any one of the following actions, wherever required: -

- (i) To immediately call off the pre contract negotiations without assigning any reason or giving any; compensation to the BIDDER. However, the proceedings with the other BIDDER(s) would continue.
- (ii) The Earnest Money Deposit (in pre-contract stage) and/or Security Deposit/ Performance Bond (after the contract is signed) shall stand forfeited either fully or partially, as decided by the PRINCIPAL and the PRINCIPAL shall not be required to assign any reason therefore.
- (iii) To immediately cancel the contract, if already signed, without giving any compensation to the BIDDER.
- (iv) To recover all sums already paid by the PRINCIPAL, and in the case of an Indian BIDDER with interest thereon at 2% above the prevailing Prime Lending Rate of State Bank of India, while in case of a BIDDER from a country other than India with interest thereon at 2% above the LIBOR (London Inter- Bank Offer Rate). If any outstanding payment is due to the BIDDER from the PRINCIPAL in connection with any other contract for any other stores, such outstanding payment could also be utilized to recover the aforesaid sum and interest.
- (v) To encash the advance bank guarantee and performance bond/warranty bond, if furnished by the BIDDER, in order to recover the payments, already made by the PRINCIPAL, along with interest.
- (vi) To cancel all or any other contracts with the BIDDER. The BIDDER shall be liable to pay compensation for any loss or damage to the PRINCIPAL resulting from such cancellation/recession and the PRINCIPAL shall be entitled to deduct the amount so payable from the money(s) due to the BIDDER.
- (vii) To debar the BIDDER from participating in the future bidding processes of HCSL for a minimum period as deemed appropriate, which may be further extended at the discretion of the

PRINCIPAL.

- (viii) To recover all sums paid in violation of this Pact by BIDDER(s) to any middleman or agent or broker with a view to securing the contract.
- (ix) In cases where irrevocable Letters of Credit have been received in respect of any contract signed by the PRINCIPAL with the BIDDER, the same shall not be opened.
- (x) Forfeiture of Performance Bond in case of a decision by the PRINCIPAL to forfeit the same without assigning any reason for imposing sanction for violation of this pact.

6.2 The PRINCIPAL will be entitled to take all or any of the actions mentioned at para 6.1(i) to (x) of this pact also on the Commission by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER), of an offence as defined in chapter IX of the Indian Penal code, 1860 or Prevention of Corruption Act, 1988 or any other statute enacted for prevention of corruption.

6.3 The decision of the PRINCIPAL to the effect that a breach of the provisions of this pact has been committed by the BIDDER shall be binding on the BIDDER. However, the BIDDER can approach the Independent Monitor(s) appointed for the purposes this Pact.

7 Fall Clause

7.1 The BIDDER undertakes that it has not supplied/is not supplying similar product/systems/items or subsystems at a price lower than that offered in the present bid in respect of any other Ministry/Department of the Government of India or PSU and if it is found at any stage that similar product/systems or sub systems/items was supplied by the BIDDER to any other Ministry/Department of the Government of India or PSU at a lower price, then that very price, with due allowance for elapsed time, will be applicable to the present case and the difference in the cost would be refunded by the BIDDER to the PRINCIPAL, if the contract has already been concluded.

8 Independent Monitor

8.1 The PRINCIPAL has appointed Independent Monitors (hereinafter referred to as Monitors) for this Pact in consultation with the Central Vigilance Commission.

- (i) Dr. Rajan S Katoch, IAS (Retd)
A-91, Alkapuri, Bhopal (MP) – 462022. Mobile:
8800919222;
Email: rkatoch@nic.in

- (ii) Dr. Vinod Bihari Mathur, IFoS (Retd.) D302,
Arborea Luxury Homes, Tarla Nagal, Near
Doon Helidrome, Dehradun, Uttarakhand -
248001 Mobile: 9412054648

- 8.2 The task of the Monitors shall be to review independently and objectively, whether and to what extent the parties comply with the obligations under this Pact.
- 8.3 The Monitors shall not be subject to instructions by the representatives of the parties and perform their functions neutrally and independently.
- 8.4 Both the parties accept that the Monitors have the right to access all the documents relating to the project/procurement, including minutes of meetings.
- 8.5 As soon as the Monitors notices, or has reason to believe, a violation of this pact, he will so inform the Authority designated by the PRINCIPAL.
- 8.6 The PRINCIPAL accepts that the Monitors have the right to access without restriction to all Project documentation of the BUYER including that provided by the BIDDER. The BIDDER will also grant the Monitors, upon his request and demonstration of a valid interest, unlimited access to his project documentation. The same is applicable to Subcontractors. The Monitors shall be under contractual obligation to treat the information and documents of the BIDDER/Subcontractor(s) with confidentiality.
- 8.7 The PRINCIPAL will provide to the Monitors sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the parties. The parties will offer to the Monitors the option to participate in such meetings.
- 8.8 The Monitors will submit a written report to the designated Authority of PRINCIPAL /Secretary in the Department/ within 8 to 10 weeks from the date of reference or intimation to him by the PRINCIPAL /BIDDER and, should the occasion arise, submit proposals for correcting problematic situations.

9 Facilitation of Investigation

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

10 Law and Place of Jurisdiction

- 10.1 This Pact is subject to Indian Law. The place of performance and jurisdiction is the seat of the PRINCIPAL.
- 10.2 A person signing Integrity Pact shall not approach the Courts while representing the matters to Independent External Monitors and shall await their decision in the matter.

11 Other Legal Actions

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

12 Validity

12.1 The validity of this Integrity Pact shall be from date of its signing and extend upto 5 years or the complete execution of the contract to the satisfaction of both the PRINCIPAL and the BIDDER/Seller, including warranty period, whichever is later. In case BIDDER is unsuccessful, this Integrity Pact shall expire after six months from the date of the signing of the contract.

12.2 Should one or several provisions of this Pact turn out to be invalid; the remainder of this pact shall remain valid. In this case, the parties will strive to come to an agreement to their original intentions.

13 The parties hereby sign this Integrity Pact at.....on.....

PRINCIPAL

Name of the Officer

Designation

Dept./MINISTRY/PSU

BIDDER

CHIEF EXECUTIVE OFFICER

Witness

1.....

2.....

Witness

1.....

2.....

* Provisions of these clauses would need to be amended/deleted in line with the policy of the BUYER in regard to involvement of Indian agents of foreign suppliers.

Annexure-11**CHECK LIST**

Bidder should compulsorily fill this check list and ensure that all details / documents as mentioned in the Tender Document is submitted along with their bid. Please Put Yes or No (Y/N) in the box and ensure compliance and specify the page no. of bid submitted.

Sl. No.	Item	Check Box (Yes/No)	Page No of Bid Document
1	Submitted Duly filled power of attorney in favour of signatory of bid documents		
2	Submitted techno-commercial tender & Financial tender in separate closed envelopes		
3	Attestation by authorized representative of bidder in all pages of tender document		
4	Submitted un-priced Bill of Quantities in techno-commercial bid		
5	Submitted Undertaking regarding acceptance of terms & conditions mentioned in the tender documents		
6	Submitted Details of Annual Turnover Statement along with Audited Balance Sheet and Profit & Loss account for financial years 2023-24, 2024-25, 2025-26 (last 03 financial years)		
7	Submitted site visit slip as per Annex-10		
8	Submitted details of similar works executed		
9	Submitted PAN, GST, EPF, ESIC details		
10	Submitted undertaking regarding conducted Detailed site visit and evaluation and accordingly all required information and data have been collected.		



Signature & Seal of the Bidders(s)



HOOGHLY COCHIN SHIPYARD LIMITED

A wholly owned Subsidiary of Cochin Shipyard Limited,

A Government of India Enterprise under Ministry of Ports, Shipping and Waterways

Site Visit Slip

I, authorized representative

of

address:

Visited the site on and understand the work completely related to “Construction of Post

Office Building under CSR activities (CSL) at Hooghly CSL, Salkia, Howrah”.

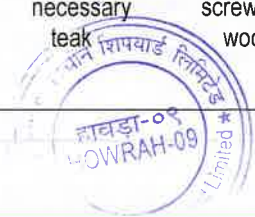
Stamp and Signature of the bidder,

Signature of Hooghly CSL Official

PRICE BID

SL. NO.	ITEM DESCRIPTION	QTY.	UNIT	Rate (Excl GST) (INR)	TOTAL AMOUNT (Excl GST) (INR)
A	CIVIL WORK				
1	Clearing grass and removal of the rubbish up to a distance of 50 m outside the periphery of the area cleared.	600.00	sqm.		
2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	10.00	cum.		
3	PCC: Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level. 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	5.00	cum.		
4	Centering and shuttering including strutting, propping etc. and removal of form for Foundations, Suspended floors, roofs, landings, balconies and access platform	100.00	sqm.		
5	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	18.00	cum.		
6	Supplying Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. Grade of bars Fe - 500D or more.	1000.00	kg.		
7	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq.meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge. With cement mortar 1:4 (1cement: 4 coarse sand)	44.00	sqm.		
8	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge. In cement mortar	20.00	cum.		
9	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead: Of area 3 sq. metres and below	9.00	each.		
10	Dismantling steel work in single sections including dismembering and stacking within 50 metres lead in R.S. Joists	2000.00	kg.		
11	CEMENT PLASTER (IN COARSE SAND) 20 mm cement plaster of mix: 1:6 (1 cement: 6 coarse sand)	300.00	sq.m.		
12	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in: Cement mortar 1:4 (1 cement: 4 coarse sand)	10.00	Cum.		

13	Half Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:4 (1 cement : 4 coarse sand)	50.00	Sqm.		
14	Finishing walls with Acrylic Smooth exterior paint of required shade: New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	300.00	sq.m.		
15	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer 7 paint using structural steel etc. as required. [Window Grill] (Consider 15 kg/sqm)	350.00	kg.		
16	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) : Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15) (Consider 4.5 kg/sqm)				
16.1	For fixed portion	130.00	kg.		
16.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)	25.00	kg.		
17	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS:12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge. Pre-laminated particle board with decorative lamination on both sides	30.00	sqm.		
18	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item): With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm)	15.00	sqm.		
19	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately). Second class teak wood	0.12	cum.		
20	Providing and fixing glazed shutters for doors, windows and clerestory windows using 4 mm thick float glass panes, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws. Second class teak wood 35 mm thick shutters	7.50	sqm.		



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21	Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50 mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand. complete all as per direction of Engineer-in-Charge. 80 mm thick C.C. paver block of M-35 grade with approved colour design and pattern.	40.00	sqm.		
22	Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily Glazed Vitrified tiles Matt/Antiskid finish of size of Tile 600 x 600 mm	81.00	sqm.		
23	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	15.00	sqm.		
24	Providing and fixing Two track Two panel sliding window with Aluminium channel for roller track, wool pile, nylon rollers with SS 304 body. Using R2 series with frame (40 mm & above) x (40 mm & above) & sash (25 mm & above) x (50 mm & above) (Height upto 1.2 m).	13.00	sqm.		
25	Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance $\pm 1\text{mm}$), with wall thickness 2.0 mm (± 0.2 mm), corners of the door frame to be Jointed with galvanized brackets and stainless steel screws, joints mitred and Plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19 mm and 1mm (± 0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer-in-charge Extruded section profile size 48x40 mm	5.00	mtr.		



26	Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19 mm x 19 mm for styles and 15x15 mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture. M.S. frame covered with 5 mm thick heat moulded PVC 'C' channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5 mm thick, 95 mm wide PVC sheet out of which 75mm shall be flat and 20 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mm x 2) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail, paneling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded/ sealed to the styles & rails with 7 mm (5 mm+2 mm) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5 mm thick PVC strip of 20 mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete as per direction of Engineer-in-charge, manufacturer's specification & drawing. 30 mm thick plain PVC door shutters	1.89	sqm		
27	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2 mm and braced with flat iron diagonals 20x5 mm size, with top and bottom rail of T-iron 40x40x6 mm, with 40 mm dia steel pulleys, complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer.	4.50	sqm		
B SANITARY & PLUMBING WORK					
1	Constructing soak pit 1.20x1.20x1.20 m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20 m long complete as per standard design.	1.00	each		
2	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes , having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with mclamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. (Exposed to Wall) 15 mm nominal dia Pipes	12.00	mtr.		
3	Providing and fixing PTMT bib cock of approved quality and colour. 15mm nominal bore, 86 mm long, weighing not less than 88 gms	1.00	each		
4	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required : W.C. pan with ISI marked white solid plastic seat and lid (Model : ESSCO catalogue no. ECS-WHT-551PNPP184NLZ or similar model of approved brand)	1.00	each		
5	Providing and fixing white vitreous china wash basin including making all connections but excluding the cost of fittings : Flat back wash basin of size 450x300 mm	1.00	each		
6	Providing and fixing PTMT pillar cock of approved quality and colour.	1.00	each		

	15 mm nominal bore, 107 mm long, weighing not less than 110 gms				
7	Providing and fixing PTMT grating of approved quality and colour. Circular type - 100 mm nominal dia	1.00	each		
8	Providing and fixing PTMT stop cock of approved quality and colour. 15 mm nominal bore, 86 mm long, weighing not less than 88 gms	1.00	each		
9	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes. 110 mm diameter	3.00	mtr		
10	Providing and placing on terrace (at all floor levels) polyethylene water storage tank , IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank	500.00	ltr		
C ELECTRICAL WORK					
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FR PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FR PVC insulated copper conductor single core cable etc as required.				
1.1	Group A	4.00	Point		
1.2	Group B	4.00	Point		
1.3	Group C	4.00	Point		
2	Supplying and drawing following sizes of FR PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required. 2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	200.00	mtr		
3	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.				
3.1	5/6 amps switch	10.00	each.		
3.2	3 pin 5/6 amp socket outlet	3.00	each.		
4	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required.				
4.1	1 or 2 Module (75mmX75mm)	1.00	each.		
4.2	8 Module (125mmX125mm)	2.00	each.		
5	Supplying and fixing following Modular base & cover plate on existing modular metal boxes etc. as required.				
5.1	1 or 2 Module	1.00	each.		
5.2	8 Module	2.00	each.		
6	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. Double pole	1.00	each.		

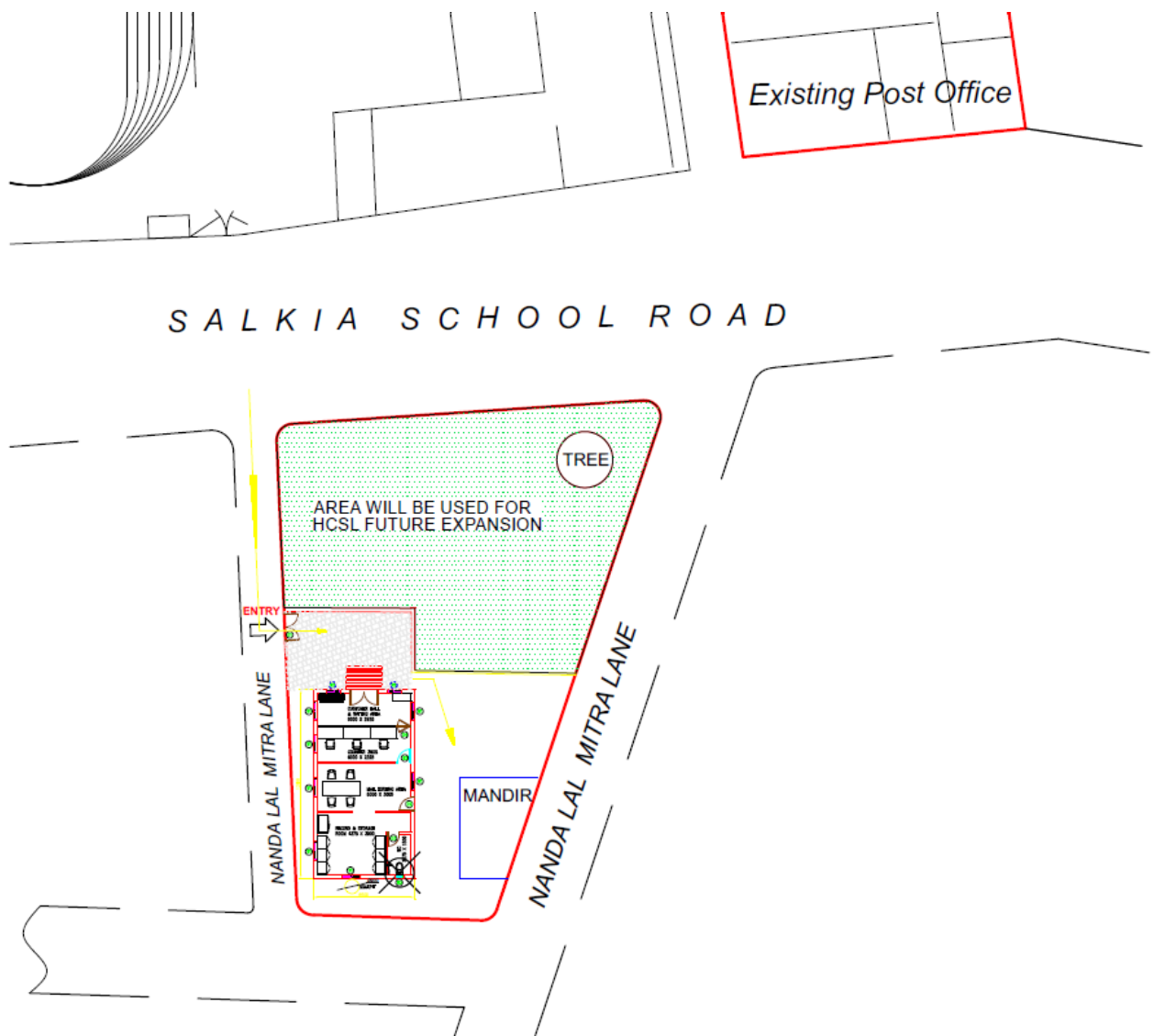


7	Supplying and fixing following rating, double pole, (single phase and neutral), 240 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliampere in the existing MCB DB complete with connections, testing and commissioning etc. as required. 40 A	1.00	each.		
8	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required. 25 mm	35.00	mtr		
9	LED Batten light (System lumen efficacy ≥ 105 <120lm/Watt). Supplying, Installation, Testing & Commissioning of LED surface mounted Batten light of following body material and construction as per IS : 10322 with driver (Replaceable) as per the requirement with Driver efficiency >85%, Operating voltage AC 140- 270 Volt, frequency 50/60 hz, Operating temp range -5 °C to 40 °C, internal surge protection of 2.5 KV with Short & Open circuit protection, THD < 10%, P. F. ≥ 0.95 , IP20, CRI >80, Flicker free, (flicker should be below 5 %), life time (LED, Driver & electrical circuitry), of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends, CCT 3000°K / 4000°K / 5700°K /6500°K (As per ANSI Bin), SDCM(Standard Deviation Colour Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard. Manufactures Word Mark/ Name Engraved/Embossing/ Screen printing on housing. complete in all respect i/c external connections with 1.5 sqmm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥ 105 <120 lm/Watt output . LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C). Powder Coated CRCA Sheet Body (Thickness >0.50 mm) 24 -26watt	6.00	each.		
10	Supply, Installation, Testing and Commissioning of ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. metal(Aluminium alloy) blades, 30 cm long down rod , 2 nos. canopies, shackle kit, safety rope, copper winding, steel/Al body Power Factor not less than 0.9, Service Value (CM/M/W) minimum as below, 350 RPM (tolerance as per IS : 374-2019), THD (Total Harmonic Distortion) less than 10%, suitable for operation with regulator for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 OC (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC supply, Ceiling Fan compliant to IS 374:2019 fan i/c external connections with 1.5 sq.mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required. 1200mm , service value ≥ 6.0 CM/Min/Watt, air delivery 210 CM/Min (Minimum)	5.00	each.		
11	Supply & fixing Exhaust Fan 225 mm BLDC Motor 6.8W Low Noise 2000 RPM Ideal for Bathroom,Kitchen Easy to Clean Installation-Round Cut (153mm) 2 Years Warranty (Brushed Steel)	1.00	each.		
Total Amount (Excl GST) -					
GST @ 18% -					
Total Amount (Incl GST) -					

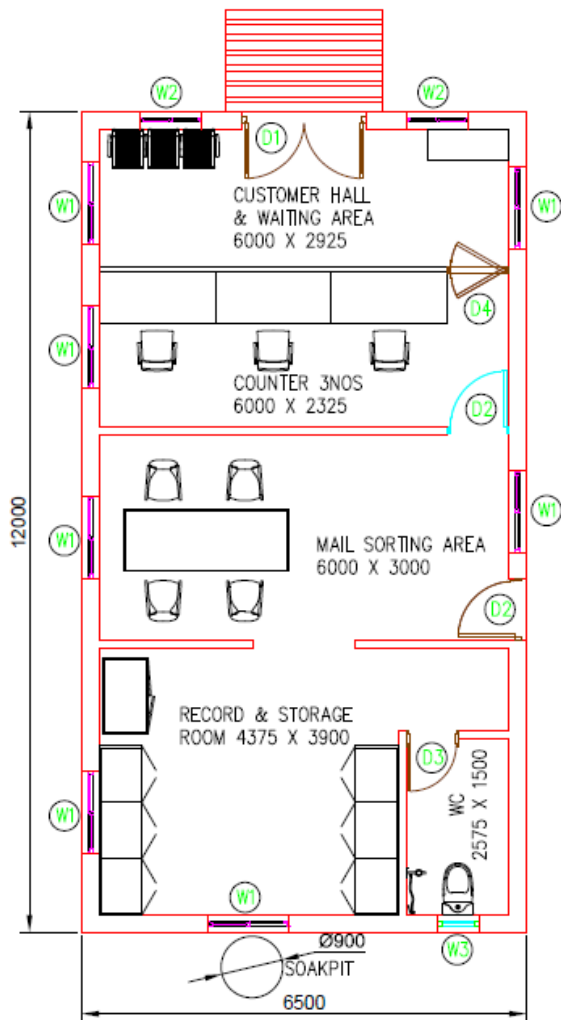


Signature & Seal of Bidder(s)

TENDER DRAWING



SITE PLAN - Proposed new Post Office



DOOR SCHEDULE			
MARK	OPENING SIZE		NOS
	WIDTH	HEIGHT	
D1	1800	2100	1
D2	900	2100	3
D3	750	2100	1

WINDOW SCHEDULE (ALUMINIUM GLAZED SLIDING WINDOW)					
MARK	OPENING SIZE				NO
	WIDTH	HEIGHT	SILL	LINTEL	
W1	1200	1500	900	2100	7
W2	1050	1350	1200	2100	2
W3	600	600	1500	2100	1