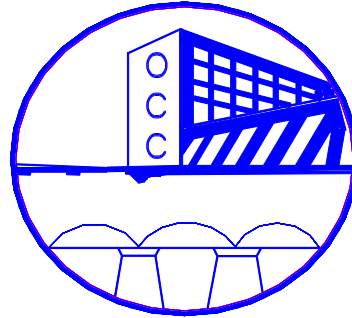


ODISHA CONSTRUCTION CORPORATION LIMITED

(A GOVT. OF ODISHA UNDERTAKING)

**PRANADEIPUR BARRAGE (CHECK DAM) PROJECT,
POLASARA, GANJAM**



DESIGNED TO EXCEL

TENDER DOCUMENT

Tender Call Notice No.03/OCC/CST-04/2021-22 dated 13.04.2021

Name of work:

“Electrical arrangement for power supply to all gates & its hoisting arrangements including illumination etc. of Pranadeipur Barrage Project”.

(This tender document contains 15 (Fifteen) sheets including this cover page)

Signature of the “Tenderer or his/their power
of attorney holder with name, date and seal

Senior Manager (Mech.), OCCL
Pranadeipur Barrage Project.

**OFFICE OF THE SENIOR MANAGER (MECH.),
ODISHA CONSTRUCTION CORPORATION LIMITED,
(A GOVT. OF ODISHA UNDERTAKING)**

Pranadeipur Barrage Project, Polasara, Ganjam

TENDER CALL NOTICE NO. 03/OCC/CST-04/2021-22 dated 13.04.2021

1. On behalf of M/s. Odisha Construction Corporation Ltd, (“OCCL”), Senior Manager (Mech.), Pranadeipur Barrage Project, Central Store & Machinery Project, Unit – Viii, Bhubaneswar - 10 invites sealed Tenders from the interested reputed Electrical Contractors enlisted in OCCL having LT / HT license with relevant experience on L.T. erection and installation work for the following items / works.

Sl. No.	Description of Items/works	E.M.D.	Cost of document + 18 % GST in Rs.	Period of work	Class of tenderer
1	Electrical arrangement for power supply to all gates & its hoisting arrangements including illumination etc. of Pranadeipur Barrage Project	1(One)% of the quoted value	7,080/-	30 (Thirty) days	Electrical Contractor enlisted in OCCL having LT / HT license

2. The tender document may be purchased from the office of the Senior Manager (Mech), Odisha Construction Corporation Ltd., Central Store & Machinery Project (for Pranadeipur Barrage Project), Bhubaneswar-751012 during office hours from **13.04.2021 to 22.04.2021** (up to **1.00 PM** of **22.04.2021**) on payment of non-refundable cost of tender document as indicated in the table above in shape of Demand Draft drawn on any Nationalized / Scheduled bank payable at Bhubaneswar only in favour of **Odisha Construction Corporation Ltd. – Project Account**. Interested tenderers may obtain further information, if any from the undersigned.
3. The Tender must be accompanied with Earnest Money Deposit (EMD) @ **1%** of total quoted basic value excluding (GST, packing & forwarding and transportation etc.) in shape of A/C payee Demand Draft drawn on any Nationalised / Scheduled Bank payable at Bhubaneswar only in favour of “Odisha Construction Corporation Ltd. - Project Account” and should be valid for **90** (Ninety) days from the date of opening of tenders.
4. The Tender document may be downloaded from OCCL website www.odishaconstruction.com or from Govt. of Odisha website www.tendersodisha.gov.in and submitted along with non-refundable cost of tender document amounting to **₹ 7,080/-** (Rupees seven thousand eighty) only inclusive of GST @ 18% in shape of Demand Draft drawn on any Nationalized / Scheduled Bank payable at Bhubaneswar only in favour of “Odisha Construction Corporation Ltd. - Project Account” and should be valid for 90 (Ninety) days from the date of opening of tenders may be deposited along with the tender. The authority shall not be responsible for missing of any page during downloading.
5. The tenders must be submitted to the Senior Manager (Mech.), Odisha Construction Corporation Ltd., Central Store & Machinery Project (for Pranadeipur Barrage Project), Unit – VIII, Bhubaneswar - 751012 on or before **3.00 PM** on **22.04.2021** and will be opened on **22.04.2021** at **4.00 PM** in the presence of the tenderers, who may like to be present. If there will be a public holiday on the last date of sale of tender document and receipt & opening of the tenders as specified above, the tender document will be sold and tenders will be received & opened on the next working day at the same time and venue. The undersigned shall not be responsible for any kind of delay by postal authorities. Tender received without EMD/in-sufficient EMD will be out rightly rejected and EMD of the unsuccessful tenders will be released only finalization of the work order

Signature of the “Tenderer or his/their power of attorney holder with name, date and seal

Senior Manager (Mech.),OCCL
Pranadeipur Barrage Project

6. Intending tenderers are required to furnish the following along with their tenders.
 - (i) Copy of valid ESI registration & GSTIN registration issued by competent authorities.
 - (ii) Copy of valid labour license if required.
 - (iii) Copy of valid LT / HT license from ELBO / Electrical competent authorities.
 - (iv) Copy of valid registration certificate with Employees Provident Fund Authority if required.
 - (v) Copy of valid Enlistment certificate issued by OCCL authority.
 - (vi) Copy of PAN card
 - (vii) Copy of document indicating residential address
 - (viii) Copies of documents on credentials and proofs in support of successful execution of similar nature and magnitude earlier.
 - (ix) Undertaking in prescribed format available in the tender document.
 - (x) Details of Earnest Money Deposit (EMD) & tender cost in prescribed format available in the tender document.
 - (xi) Complete tender documents duly filled-in and signed on each page by the tenderer or his/their power of attorney holder with date, full name, designation and official seal.
 - (xii) Valid enlisted certificate issued by OCC Ltd. should be furnished.
7. The Job-Worker registered under NSIC / MSME for participation in tender / quotation are not entitled for exemption from payment of EMD / Security Deposit / Tender paper cost / quotation paper cost as per provision exist in O.P.W.D code and amended by Govt. of Odisha, Department of Water Resources.
8. The authority reserves absolute right to accept or reject any or all tenders without assigning any reason thereof. may visit site before quote the rate and
9. The intending bidder(s) may visit site before quote the rate and in the prescribed enclosed blank price schedule format only.
10. The successful bidder shall have to execute the work as per scope of work, relevant drawings, technical specifications, terms and conditions of agreement.
11. Quantity may increase or decrease as per requirement during execution of work at site as per direction of Engineer-in-charge.
12. The tenderer should furnish detailed rate analysis of the work enclosing price list of materials to be supplied with make & authorisations of reputed manufacturers for the work along with the tender.
13. The validity of offer should be for a period of **90(Ninety)**days from the date of opening of tenders. OCC Ltd. may be asked further extension of validity if required without any price rise.
14. Any dispute arising out of this tender or order thereof is to be settled in proper court under the jurisdiction of Odisha High Court at Cuttack or Courts at Bhubaneswar only under the jurisdiction of Odisha High Court.

Signature of the “Tenderer or his/their power of attorney holder with name, date and seal

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Pranadeipur Barrage Project

EMD, cost of tender document and document deposit particulars

DETAILS OF EARNEST MONEY DEPOSIT (EMD), COST OF TENDER DOCUMENT AND DOCUMENTS SUBMITTED ALONG WITH TENDER

1. EMD amount ₹. _____ (Rupees _____) only
vide A/C Payee D.D. No. _____ Dated _____ issued by
_____ Bank, _____ Branch
_____.

2. Cost of tender document ₹ **7,080/-** (Rupees seven thousand eighty) only vide Demand Draft
No. _____ Dated _____ issued by
_____ Bank, _____ Branch
_____.

3. GST Registration Certificate

4. P.A.N. card

5. Names of relations in O.C.C. Ltd.

6. Any other documents.

Full signature of "Job-Worker"
with date and seal

Signature of the "Tenderer or his/their power
of attorney holder with name, date and seal

Senior Manager (Mech.), OCCL
Pranadeipur Barrage Project

UNDERTAKING OF TENDERER

I / We Sri

(In case of the firm, the name of the proprietor / head of the firm along with the designation & name of firm should be mentioned)

S/O: Sri _____, Permanent resident of
Vill /Street: _____, P.O: _____, P.S: _____
Via: _____, Dist: _____, State: _____
PIN: _____

declare that I / We have thoroughly gone through the tender document and I / We know the sites of works.
I / We agree to work at rates quoted by me / us or at settled rates and abide by the terms and conditions of the tender document.

Full signature of "Tenderer" with date and seal
Present address for correspondence

:

Signature of the "Tenderer or his/their power of attorney holder with name, date and seal

Senior Manager (Mech.), OCCL
Pranadeipur Barrage Project

SCOPE OF WORK FOR ELECTRICAL CONTRACTOR

- 1) The contractor has to supply the main panel 1 (one) No. made out of 16 SWG thick CRCA sheet metal cubical with slanting roof fixed on M.S. Angle frame work outdoor floor mounted type, duly acid treated for de-rusting with powder coating having minimum paint thickness of 50 micron having hinged door with provision for cable/conduit entry (3.5C 95 sqmm AL PVC A PVC 1 no. incoming & 4C 4 sqmm AL PVC A PVC 10 nos. outgoing), earthing studs, one set of 150 Amp. TPN Cu Bus bar with complete wiring by accommodating the following list of materials including trial & testing as per the direction of Engineer-in-Charge.
- 2) The tenderer has to supply all switch gears, contactors and MCCBs of reputed manufacturer like L & T, Havells, BCH, C&S or any other ISI marked with Test Certificate/ Guarantee Certificate of respective manufacturers.
- 3) The tenderer has to supply the power cables of reputed make (KEI / Havells / Polycab / any other reputed make) certificates as per IS code and as per enclosed price schedule with Test Certificate/ Guarantee Certificate of respective manufacturers.
- 4) Electricity shall be supplied by OCCL at single point.
- 5) All the materials will be inspected by Engineer-in-Charge / or his authorized representative before despatch on prior intimation.

GENERAL TERMS AND CONDITIONS

1. DEFINITIONS:

Signature of the "Tenderer or his/their power of attorney holder with name, date and seal

Senior Manager (Mech.), OCCL
Pranadeipur Barrage Project

- i) “CORPORATION” means “ODISHA CONSTRUCTION CORPORATION LTD, (“OCCL” in short)” with registered office at Unit – VIII, Gopabandhu Nagar, Bhubaneswar-751012 (Odisha) represented through its Managing Director or any other officer as designated by the “Corporation” from time to time.
- ii) “**ENGINEER-IN-CHARGE**” means the qualified Engineer deployed by the “Corporation” at work site for the work including the Senior Manager (Mech.) / Manager / Asst. Manager (Elect.), “OCCL”.
- iii) “**CONTRACTOR**” means the person / firm / organization i.e. reputed Electrical Contractor enlisted in OCC Ltd. having HT license / Registered Electrical Firm having relevant experience on L.T. / H.T. erection and installation work, subsequent technical person, machinery, materials etc. have been awarded by OCCL to execute the work satisfactorily as per scope indicated herein within stipulated period.

2. **AGREEMENT:**

The “**Contractor**” shall enter into an agreement with the “Engineer-in-Charge” in the format on requisite value of stamp paper prescribed for the purpose by the “Corporation” within a stipulated period to be specified by the “Engineer-in-Charge” failing which the EMD and ISD shall be forfeited. The work may be awarded in favour of some other agency at the discretion of the “Corporation”.

3. **CONDITIONS FOR SUPPLY ITEMS.**

- i) The tender shall quote their rates **F.O.R. Odisha Construction Corporation Ltd., Pranadeipur Barrage Project, Central Store & Machinery Project, Unit – VIII, Bhubaneswar - 10** inclusive of all levies, duties, transportation, transit insurance etc. Applicable taxes as per GST shall be indicated separately besides basic price strictly in the space provided in price schedule format.
- ii) The material should be guaranteed against any manufacturing defects for a period of one year from the date of operation/ supply whichever is earlier. Materials if found defective within the guarantee period, the same shall have to be replaced free of cost by the supplier.
- iii) Materials to be supplied shall be strictly as per proper specification & applicable make should be clearly mentioned against each item. In case of any doubt on the item the tenderer/supplier may contact the undersigned for confirmation before quoting rate.
- iv) The validity of the offer should be for a period of **120 (One hundred) days** from the date of opening of the tender.
- v) The complete order shall have to be executed within **60 (Sixty) days** from the date of issue of the work order failing which the order is liable for cancellation. In case of any delay in supply of material beyond the delivery schedule whatever may be the reason, supplier shall be liable to pay L.D. @ 0.5% (half percent) of the total work value of delay or part thereof subject to a maximum of 5% (five percent) of the total work value.
- vi) Manufacturer shall have to provide circuit diagram of each assembled unit for reference of the purchaser.

4. **RATE:**

The rate quoted by the tenderer is to be indicated in Rupees, which shall be valid for the full period of execution or till completion of work whichever is later. No escalation or price variation in whatsoever form shall be entertained. The rates quoted by the tenderer should be firm for the entire period of execution. The tenderer shall quote the rates to complete the works as per specifications inclusive of all transportation, handling, loading, unloading, lift, de-lift, taxes, duties, levies, incidental expenses etc. that will be applicable on the work to be executed by him. No claim in this regard in whatsoever form shall be entertained.

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Senior Manager (Mech.), OCCL
Pranadeipur Barrage Project

5. **PAYMENT TERMS:**

- i) No advance, price escalation and price adjustment shall be paid for the work. The rates shall remain firm throughout the agreement period.
- ii) The payment to the “**Contractor**” shall be limited to the measurements taken and accepted by the client. The “**Contractor**” cannot raise any dispute over the measurements allowed by the “**Engineer-in-Charge**” for the purpose of payment.
- iii) The Contractor will bear the full cost of rectification or replacement of works required as per direction of “**Client**” or “**Engineer-in-Charge**”.
- iv) The payment for 60% of value towards cost of materials shall be made within 30(thirty) days after receipt, verification and acceptance of the complete materials along with bill, test certificate, guarantee certificate and other documents. 30% towards cost of materials and 90% value towards transportation and erection, electrical installation, testing and commissioning shall be made within 30(thirty) days after successful erection, electrical installation, testing & commissioning. Balance 10% of total work cost shall be released within 60(sixty) days against receipt of Performance Bank Guarantee (PBG) for 10% value of total work cost(basic) valid for 18(eighteen) months from the date of successful erection, electrical installation, testing & commissioning. In absence of PBG, balance 10% value of total work cost shall be released after 18 months of successful erection, electrical installation, testing & commissioning.

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6) **INCOME TAX, GST ETC. :**

Income Tax at the prevailing rate from time to time will be deducted from each bill of the “**Contractor**” and shall be deposited with Income Tax Authorities. The **Contractor** will have to produce tax invoice against each bill for payment.

7) **RETURN OF PLANT, MACHINERY, EQUIPMENTS, TOOLS, TACKLES, MATERIALS, CONSUMABLES ETC.:**

The plants, machinery, equipments etc. of the “**Corporation**” are to be returned by the “**Contractor**” in good working condition after completion of the work/termination of the contract by the “**Corporation**”. The “**Corporation**” may hire plants, machinery, equipments, etc. from the owner as well as outside for use in work. The same are also to be returned by the “**Contractor**” in acceptable good working condition with original fittings after completion of the work/termination of the contract by the “**Corporation**”.

Any damage to/ by the plants, machinery, equipments etc. during use by the “**Contractor**” shall be booked to the “**Contractor**” for recovery from his bills.

8) **MEASUREMENT OF WORK:**

The quantity of work executed shall be measured and payment shall be made on completion of work or on termination of the agreement, when final measurement will be made and account will be adjusted accordingly. The decision of the “**Engineer-in-Charge**” regarding the rates, progress, measurement and quality of the work shall be final and binding on the “**Contractor**”.

9) **ELECTRICITY**

Electricity if required for execution of work shall be provided by the Corporation and/or owner free of charges at one point only from where the contractor shall arrange further distribution with his own materials and labour.

10) **PAYMENT TO WORKMEN:**

The “**Contractor**” should maintain job register and payment rolls of their workmen and get those checked by the “**Engineer-in-Charge**” or his authorized representative from time to time. The payment to the workers/ supervisory staff shall be made by the “**Contractor**” in the presence of the owner and/or “**Engineer-in-Charge**” or his authorized representative as a token of disbursement. The copies of paid pay roll shall be submitted to the “**Engineer-in-Charge**” within a period of 7 (Seven) days from the date of payment failing which no further payment to the “**Contractor**” shall be released.

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Senior Manager (Mech.), OCCL
Pranadeipur Barrage Project

- 11) **WORKMEN COMPENSATION:**
In case of any loss due to accident arising during / in connection with execution of the contract, the “Contractor” will pay compensation to his workmen. The “Contractor” will be fully responsible for his workmen as per workmen’s compensation Act and Labour Laws in force during entire period of execution of contract. In case, the “Contractor” fails to do so, the “Corporation” may pay the same and recover the same from the bills / dues of the “Contractor”.
- 12) **INFORMATION OF WORKMEN:**
The “Contractor” will make his own arrangements of labour and shall furnish all information of workmen employed by him like name, father’s name, full permanent address, sex and age to the “Engineer-in-Charge” along with the pay.
- 13) **STATUTORY REQUIREMENTS:**
The “Contractor” shall comply all statutory requirements applicable at site of work such as Minimum Wage Act, Labour Act, Factory Act, Workmen’s Compensation Act, Provident Fund Rules, etc. A certificate to this effect shall be enclosed by the “Contractor” with each Running Account Bill for payment.
- 14) **MINIMUM AGE OF WORKMEN:**
The “Contractor” shall not employ any person, who is below the age of 18 (Eighteen) years or unfit for the tendered items. The “Engineer-in-Charge” shall have right to decide, whether any labour employed by the “Contractor” is below the age of 18 (Eighteen) years or unfit and refuse to allow any labour, whom he decides to be below the age of 18 years or unfit for any other reason.
- 15) **LABOUR LICENCE:**
The “Contractor” has to obtain valid labour license and maintain all records at his own cost as per the conditions laid down in the labour rules in vogue and amended from time to time.
- 16) **MINIMUM WAGES ACT:**
The “Contractor” shall pay wages of each labour at the rate not less than the wages as per Minimum Wages Act in force and as may be amended from time to time. The “Engineer-in-Charge” has the right to enquire into and decide on any complaint of the labourers relating to non-payment or less payment of wages to them and his decision will be final and binding on the “Job-worker”.
- 17) **INSURANCE:**
The workmen insurance shall be the responsibility of the “Contractor”. He shall produce the records in support of workmen insurance to the “Engineer-in-Charge” for check and record. Further the materials supplied and work executed shall be fully insured by supplier under compressive insurance policy covering all risk against loss or damaged incidental manufacturer or acquisition, transportation, storage execution and till acceptance/handing over of the completed work.
- 18) **IDLE LABOUR:**
“OCCL” will not be held responsible for idle labourers of the “Contractor” for any reason, whatsoever and no claim on this account will be entertained.
- 19) **CLAIMS AND LIABILITIES:**
All claims/liabilities etc. arising out of Explosives Act and Labour laws shall be borne by the “Contractor” and he shall keep the “Corporation” indemnified against them and also in case of injuries or death of labourer (s) resulting from accidents during the execution of the work. In case the “Corporation” will have to pay for any such claims under Workmen’s Compensation Act, the same shall be adjusted from the pending bills/dues of the “Contractor” or shall be recovered otherwise as per law from him.

- 20) **SAFETY:**
The “Contractor” should abide by the safety laws and rules of statutory bodies, “Corporation” and owner as per direction of “Engineer-in-Charge” and Safety Officers inspecting from time to time.
- 21) **WATCH AND WARD:**
The “Contractor” shall arrange watch and ward and safety of the site his materials, vehicles, equipments, etc. at his own cost. No accommodation will be provided by OCCL. The **Contractor** has to arrange accommodation for their working staff during execution of work as well as proper shed for storage of materials with safety precautions.
- 22) **AUTHORISED PERSON:**
The “Contractor” may in writing authorize his power of attorney holder or any other person to draw materials, avail facilities, attend measurements etc. during the course of execution of work. All liabilities created by the authorized person of the “Contractor” by way of loss of materials drawn, amenities availed, unpaid wages created etc. shall be considered as the liabilities of the Job worker and such liabilities shall be made good by the “Contractor” or it shall be recovered from the bill/payment due to him.
- 23) **RESPONSIBILITY OF CONTRACTOR:**
The work shall be completed by the “Contractor” in all respect within the stipulated period of completion and the responsibility of the “Contractor” shall cease only, when the items are fully accepted by the owner after erection at project site.
- 24) **REJECTION DUE TO BAD WORKMANSHIP:**
The rejection due to bad workmanship shall be charged to the “Contractor” at a cost of rejected items plus 20 (Twenty) %.
- 25) **BREACH OF CONTRACT:**
The ISD including EMD, SD and additional SD are liable to be forfeited in the event of breach of contract and the agreement shall be terminated. The dues of the “Corporation” including due of labourers/ workmen and other statutory payable liabilities payable by the “Corporation” as principal employer shall be cleared by the “Contractor”. The decision of the “Engineer-in-Charge” in this regard shall be final and binding on the “Contractor”. The amount remaining as outstanding against the “Contractor” after adjustment of his dues shall be payable by him to “OCCL”. If necessary, legal action may be taken for recovery of the dues of the “Corporation” including labour and statutory dues to be cleared by the “Corporation” as principal employer and “OCCL” reserves the right to recover the payable amount from the “Contractor” from works done by his under any other organization or from his properties.
- 26) **TERMINATION OF CONTRACT:**
The “Engineer-in-Charge” may put an end to the agreement at his option at any time due to (a) Bad workmanship (b) Dis-proportionate progress (c) Non-compliance of labour rules or (d) Any other reason. The decision of the “Engineer-in-Charge” is final in this respect and no claim on this account will be entertained. “OCCL” also reserves the right to take exparte measurements, if the “Contractor” does not co-operate in taking final measurements after termination of contract.
- 27) **SITE VISIT:**
The “Contractor”, interested to participate in the tender, should visit the site of work and get himself acquainted with site conditions and tendered work before submitting the tender.
- 28) **RIGHT OF THE “CORPORATION”:**
The “Corporation” reserves the right to cancel a particular tender call or all tender calls without assigning any reason thereof. The offer of any tenderer or all may be cancelled without assigning any reason thereof. **The requirement shown in any tender call notice are only indicative and may vary.**

Signature of the “Tenderer or his/their power of attorney holder with name, date and seal

Senior Manager (Mech.), OCCL
Pranadeipur Barrage Project

29) **FORCE MEASURE:**

Neither party shall be liable to the other for any loss or damage occasioned by or arising out of acts of God such as unprecedented flood, volcanic eruption, earthquake or other convulsion of nature and other acts such as but not restricted to invasion, the act of foreign countries, hostilities, or war-like operations before or after declaration of war, rebellion, military or usurped power which prevent performance of the contract and which could not be foreseen or avoided by a prudent person.

30) **JURISDICTION:**

For all liabilities created under the various contractual obligations/impositions under this agreement, the “Contractor” undertakes not to raise any dispute or litigations in connection there with and shall make all endeavors to resolve all disputes amicably through conciliation and in all such cases, the decision of the Managing Director, “OCCL” shall be final and binding on the “Corporation” as well as on the “Contractor” failing which all such disputes arising out of the agreement shall be subject to jurisdiction of Hon’ble High Court of Odisha at Cuttack and their sub-ordinate courts at Bhubaneswar only. Both the parties agree by mutual consent that any dispute relating to this agreement is barred from arbitration.

TECHNICAL SPECIFICATION

SCOPE OF WORK:-

1. Details circuit diagram with write up shall be furnished by the firm for approval by the purchase before manufacturing the equipment. The design of components such as resistance etc. with their make & rating shall be furnished.
2. Supply of control equipments in full as per specifications.
3. Complete wiring of the control equipments from the power supply point to the crane including supply of power cable, control cable & lighting cable to be used after approval of the purchaser. The firm has to furnish the detailed specifications of the cables to be used in the circuit.
4. Design standard IS:3177-1999 and its revision. IS:807-2006 & its revision and other relevant standards.

REVERSIBLE STARTER:-

The tenderer has to supply 10 (Ten) nos. of reversing starter for 03 KW motor having provision for single phase preventer and over load relay (08 Amp. to 12 Amp.) in the reversible starter.

LIMIT SWITCHS :-

The limit witches shall be self resetting type or change over (Memory) type or snap action type as per the requirement of the motions of the hoist. The degree of protection shall be IP:55.

EARTHING :-

The hoist structure, motor frames and metal cases of all electrical equipment including metal conduit or cable guards shall be effectively connected i.e. complying with CEA (Measures relating to safety and electric supply) regulation 2010 and IS:3043.

WIRING :-

All electrical wiring shall conform to latest revision of IS:1554 (Part-I) PVC insulated (Heavy duty) electric cables for working voltage up to and including 1100 volts.

ADDITIONAL SPECIFICATION

1. There shall be provision for 3 phase testing bench of suitable capacity for test loading all power contractors, overload relays and switches up to their full loading.
2. There shall be provisions for painting the panel in a time temperature controlled heating & drying chamber in order to ensure longer life of panel to work in a highly humid atmosphere.
3. The enclosure should be made for outdoor service conditions suitable for minimum IP-54/55 category and roofs shall be made a little slanting for rain water to fall easily without resting on it.
4. In addition to the required rating of MCCB, there should be one 'Earth leakage' protection for protecting the life of operator from electrocution in the event of leakage current exceeding 100 mA.

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Pranadeipur Barrage Project

PRICE BID

Sl. No.	Description of work	Unit	Qty.	Rate (in Rs.)		GST %	Amount (in Rs.)	
				Figure (in Rs)	In Words		Figure (in Rs)	Words
1.	<p>Supply, delivery, installation, testing, & commissioning of L.T. outdoor with slanting roof floor mounted double door type distribution boards made out of 2mm thick CRCA sheet metal, cubical fixed on m.s. angle frame work, duly acid treated for derusting, primed and painted with 2 coats of enamel paints of approved shade; IP-52 class of protection, having hinged door having provision for cable/conduit entry and earthing studs, as per specification mentioned below duly factory wired conforming to the relevant ISS and as per special conditions of contract making good the damages caused complete as per the direction of Engineer-in-charge.(Distribution board)</p> <p>Incoming</p> <p>01 no. 100 Amp FP on load change over switch 01 no. 100 Amp FP MCCB (25 KA)</p> <p>1 Set 150 Amp TPN Cu Bus.</p> <p>Outgoing</p> <p>10 nos. 16 Amp FP MCCB (25 KA) 02 nos. 32 Amp FP MCCB (25 KA) Instrument - 1 set of phase indicating lamp with control fuses, Voltmeter, ammeter with selector switch, and C.T. etc</p>	Set	01					
2.	Supply, Installation, testing & commissioning of Reversible starter in a slanting roof enclosure of the 03 K.W induction motor with single phase priventer and over load relay and as per the direction of Engineer-in-charge.	No.	10					

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Senior Manager (Mech.),OCCL
Pranadeipur Barrage Project.

3.	Supply, delivery, laying & testing of following size of PVC insulated, PVC sheathhead, GI round/strip armoured stranded conductor power cable of 1100 volt grade conforming to IS:1554/1978 amended upto date, laid directly in ground/ on the cable tray excluding the cost of trays/ including the cost of excavation of earth in all kinds of soil and rock, sand cushioning, protective brick covering in 8 bricks per meter fashion, refilling the trench with excavated soil free from rock and sharp edges but including the cost of cable end termination complete with making good the damages caused as required and as per direction of Engineer-in-charge.							
	(A) 3.5 C 95 Sqmm AL PVC A PVC	Mtrs	100					
	(B) 4 C 4 Sqmm AL PVC A PVC	Mtrs	800					
	(C) 6 Sqmm Cu. Multicore wire	Mtrs	50					
	(D) 4 C 4 Sqmm CU Flexible Cable	Mtrs	50					
	(E) 4 Sqmm Cu. Multi core wire	Mtrs	50					
	(F) 2.5 Sqmm Cu. Multi core wire	Mtrs	90					
4.	Supply, delivery, laying & testing of 25 x 3 mm GI flat for earthing of equipment and panels including making and termination required complete as the direction of Engineer-in-charge.	Mtrs	150					
5.	Supply of materials, delivery fabrication erection, installation, testing, commissioning and inspection of MS cable tray (Ladder type) for lying of cable to provide power supply for hoist side, made out of (50X50X6 mm MS angle, and 50X4 MS flat) as per the direction of Engineer-in-charge	MT	1					
6.	Supply, fixing and testing of 3 mtr. long 40mm dia class-B perforated GI pipe earthing device conforming to IS:3043, digging earth pits and filling with alternative layer of charcoal and salt and back filling and making earth chamber with RCC slab as directed by Engineer-in-charge.	Nos.	02					
7.	Supply, Testing & laying of 100mm Dia GI pipe with bend for cable laying including testing & commissioning as per direction of Engineer-in-charge.	Mtr.	20					

Signature of the "Tenderer or his/their power of attorney holder with name, date and seal

Senior Manager (Mech.), OCCL
Pranadeipur Barrage Project,

8.	Supply and lying of 8 SWG GI wire, accompanied through cable and should be connected to earthing points, as required and as per the direction of Engineer	Mtr	50					
9.	Supply , fixing, testing and installation of limit switches shall be rated as 16 Amp at 440 Volt AC, 50 Hz. And of direct position action type and as per direction of Engineer-incharge.(position Indicator)	Nos.	20					
10	Supply, delivery, installation & testing of 50 Watt LED street light, fixtures with 40 mm dia 8 feet GI pole installed on the barrage bay with all accessories including provision of 01 no. of MCB in each pole as required & as per direction of Engineer-in-Charge.	Sets	12					

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