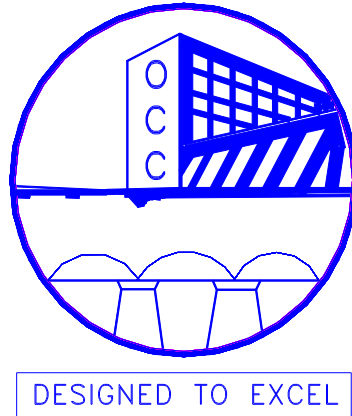


ODISHA CONSTRUCTION CORPORATION LTD.
(A GOVERNMENT OF ODISHA UNDERTAKING)
CENTRAL WORKSHOP,
RASULGARH,
BHUBANESWAR – 751010 (ODISHA)



TENDER DOCUMENT

Tender call notice No. OCC/CWS/PROC/PRHP-03/64/18-19 dated 14.12.2018

Name of work :

INSTALLATION, COMMISSIONING AND TESTING OF 250KVA 11/0.433 PLINTH MOUNTED S/S, OUTDOOR TRANSFORMER WITH PROVISION FOR 3 PHASE OVERHEAD LINE AND ROAD CROSSING ETC., AS PER REQUIREMENT AND GUARDING WITH ALL PROTECTION SYSTEM AT PASSENGER ROPEWAY PROJECT, HIRAKUD SITE.

(This tender document contains 24 (Twenty-four) sheets including this cover page)

Signature of tenderer or his/their power
of attorney holder with date, full name,
designation and official seal

Senior Manager(Mech.) – I,
OCCL, Central Workshop, Rasulgarh,
Bhubaneswar – 751010 (Odisha)

Particulars of tender document issue

**ODISHA CONSTRUCTION CORPORATION LTD.
(A GOVERNMENT OF ODISHA UNDERTAKING)
CENTRAL WORKSHOP, RASULGARH,
BHUBANESWAR – 751010 (ODISHA)**

Date of issue of tender document

Tender call notice No. OCC/CWS/PROC/PRHP-03/ 64 /18-19 Dated 14.12.2018

Issued in favour of :
(Full name & address)

Telephone No. – Land line :

Mobile :

Valid H.T license No. :

Vide money receipt No. :

Dated:

Issued by
(Stamp and signature of issuing officer)

*Cost of tender paper (Non-refundable)= ` 6000/- + CGST @ 6% ` 360/- + SGST @ 6% ` 360/-
= ` 6720/-(Rupees six thousand seven hundred
twenty) only by hand / ` 6000/- + CGST @ 6% ` 360/-
+ SGST @ 6% ` 360/- = ` 6720/- + Postal / Courier
charges ` 100/- = ` 6820/- (Rupees six thousand
eight hundred twenty) only by Registered Post /
Speed Post / Courier*

Signature of tenderer or his/their power
of attorney holder with date, full name,
designation and official seal

Senior Manager(Mech.) – I,
OCCL, Central Workshop, Rasulgarh,
Bhubaneswar – 751010 (Odisha)

ODISHA CONSTRUCTION CORPORATION LTD.
(A GOVERNMENT OF ODISHA UNDERTAKING)
CENTRAL WORKSHOP,
RASULGARH, BHUBANESWAR – 751010 (ODISHA)

Tender call notice No. OCC/CWS/PROC/PRHP-03/64/18-19 dated 14.12.2018

Name of work : INSTALLATION, COMMISSIONING AND TESTING OF 250KVA 11/0.433 PLINTH MOUNTED S/S, OUTDOOR TRANSFORMER WITH PROVISION FOR 3 PHASE OVERHEAD LINE AND ROAD CROSSING ETC., AS PER REQUIREMENT AND GUARDING WITH ALL PROTECTION SYSTEM AT PASSENGER ROPEWAY PROJECT, HIRAKUD SITE.

1. On behalf of M/s Odisha Construction Corporation Ltd. ("OCCL"), the Senior Manager (Mech.)-I, Central Workshop, Rasulgarh, Bhubaneswar-751010 (Odisha) invites sealed tenders from reputed electrical contractors with valid electrical (HT) license for the following work(s).

| Sl. No. | Name of the work | EMD | Cost of document + CGST @ 6%+SGST @6% in ` | Period of completion. | Class of job-worker |
|---------|--|------------------------------|--|-----------------------|--|
| 1 | INSTALLATION, COMMISSIONING AND TESTING OF 250KVA 11/0.433 PLINTH MOUNTED S/S, OUTDOOR TRANSFORMER WITH PROVISION FOR 3 PHASE OVERHEAD LINE AND ROAD CROSSING ETC., AS PER REQUIREMENT AND GUARDING WITH ALL PROTECTION SYSTEM AT PASSENGER ROPEWAY PROJECT, HIRAKUD SITE AS PER DIRECTION OF ENGINEER-IN-CHARGE | 1(One) % of the quoted value | 6720/- | 30 days (One) month | Reputed electrical contractor with valid electrical (HT) license for electrical works. |

2. The tender document may be purchased from the office of the Senior Manager (Mech.)-I, Odisha Construction Corporation Ltd., Central Workshop, Rasulgarh, Bhubaneswar-751010 during office hours from **14.12.2018** to **26.12.2018** (up to **1.00 PM** of **26.12.2018**) on payment of non-refundable cost of tender document as indicated in the table above in shape of Cash/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 tenderers must be accompanied with Earnest Money Deposit @ 1% of total quoted value in any one of the forms specified in the quotation document 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 Govt. of Odisha website www.odishagov.nic.in and non-refundable cost of tender document amounting to ` **6720/-** (Rupees six thousand seven hundred twenty) only inclusive of CGST @ 6% & SGST @ 6% in shape of Account Payee Demand Draft drawn on any nationalized/scheduled bank payable at Bhubaneswar only in favour of **Odisha Construction Corporation Ltd.-Project Account** may be deposited along with the quotation.

Signature of tenderer or his/their power of attorney holder with date, full name, designation and official seal

**Senior Manager(Mech.) – I,
OCCL, Central Workshop, Rasulgarh,
Bhubaneswar – 751010 (Odisha)**

5. The tender papers must be submitted to the Senior Manager(Mech.)-I, Odisha Construction Corporation Ltd., Central Workshop, Rasulgarh, Bhubaneswar-751010 (Odisha) on or before **1.00 PM** on **26.12.2018** and will be opened on **26.12.2018** at **4.00PM** in the presence of the tenderers or their authorized representatives if they so desire. 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.
6. Intending tenderers are required to furnish the following along with their tenders.
 - i) The bidder must have successfully executed contracts of similar nature of work either directly awarded to him by an electrical supply utility in India or contracts awarded by an agency on subcontract basis provided such agency has got order directly from an Electrical Supply Utility. The bidder must enclose copies of the relevant work orders, copies of invoices and performance certificates duly signed by the competent authority of utility in proof of having executed the works
 - ii) In addition to the above bidders should submit the following documents with the technical bid as qualifying terms
 - a. Valid electrical(HT) license for electrical works
 - b. Cost of tender document duly signed & stamped on each page
 - c. Copy of valid GST registration certificate
 - d. Copy of valid labour license
 - e. Copy of PAN card
 - f. Copy of document indicating residential address
 - g. Copies of documents on credentials and proofs in support of successful execution of works of similar nature and magnitude earlier.
 - h. Undertaking to mobilize workmen at site of work within 10(Ten) days from the date of issue of work order/letter of intent by "OCCL"
 - i. Undertaking in prescribed format available in the tender document.
 - j. Details of Earnest Money Deposit (EMD) in prescribed format available in the tender document .
 - k. Detailed planning of men, machinery and materials for executing the work tendered herein.
 - l. Complete tender document 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.
7. The intending bidder is to quote rates in enclosed blank price schedule format.
8. The successful bidder shall have to execute the work as per scope of work, relevant drawings, technical specifications, terms and conditions of agreement & direction of Engineer-in-Charge.
9. The authority reserves absolute right to accept or reject any or all quotations without assigning any reason thereof.
10. 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 under the jurisdiction of Odisha High Court at Bhubaneswar only.

**Signature of tenderer or his/their power
of attorney holder with date, full name,
designation and official seal**

**Senior Manager(Mech.) – I,
OCCL, Central Workshop, Rasulgarh,
Bhubaneswar – 751010 (Odisha)**

EMD and document deposit particulars

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

1. EMD amount _____ (Rupees _____)
only vide A/C Payee D.D. / B.C./ Pay Order No.
_____ Dated _____ issued by

Bank, _____ Branch.
2. GST registration Certificate
3. P.A.N. card
4. Names of relations in O.C.C. Ltd.
5. Money receipt No. _____ Dated _____ issued by
_____ for Rs. _____ (Rupees
_____) only in support of
purchase of tender schedule.
6. Any other documents.

**Signature of tenderer or his/their power
of attorney holder with date, full name,
designation and official seal**

**Senior Manager(Mech.) – I,
OCCL, Central Workshop, Rasulgarh,
Bhubaneswar – 751010 (Odisha)**

Undertaking of Job-Worker

I / We Shri

(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 quotation 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 quotation document.

**Signature of tenderer or his/their power
of attorney holder with date, full name,
designation and official seal**

**Senior Manager(Mech.) – I,
OCCL, Central Workshop, Rasulgarh,
Bhubaneswar – 751010 (Odisha)**

SCOPE OF WORKS

The Senior Manager (Mech.) invites sealed bids from eligible interested bidders for “Installation, commissioning and testing of 250KVA 11/0.433 plinth mounted S/S, outdoor transformer with provision for 3 phase overhead line and road crossing etc., as per requirement and guarding with all protection system at passenger ropeway project, hirakud site”.

The materials to be supplied by the bidder to complete the job shall be on the basis of a single Bidder's responsibility, completely covering supply and erection of all the equipments specified under the accompanying Technical specifications including other services. It will include the following:-

- (a) Interested Job-Workers may visit the site of work before submitting the offer
- (b) Complete manufacture, including shop testing & supply of materials from the approved vendor.
- (c) Providing Engineering drawing, data, operation manual etc. for the owners approval.
- (d) Packing and transportation from the manufacturers work to the site.
- (e) Receipt, storage, preservation and conservation of equipment at the site.
- (f) Preassembly, if any erection testing and commissioning of all the equipment.
- (g) Reliability tests, performance and guarantee tests on completion of commissioning
- (h) Loading, Unloading & transportation as required
- (i) Erection of equipments in substation including civil works
- (j) Erection of lines of specified voltage
- (k) Testing, commissioning of Substations and lines/ installations, storing before erection
- (l) Getting the Substation & lines inspected and certified for energization of the installation by Electrical Inspector after completion of work at the particular location at his cost.

The scope of OCCL shall be as follows:

OCCL shall provide the 250 KVA outdoor transformer (11/0.433KV.copper wound) at site.

**Signature of tenderer or his/their power
of attorney holder with date, full name,
designation and official seal**

**Senior Manager(Mech.) – I,
OCCL, Central Workshop, Rasulgarh,
Bhubaneswar – 751010 (Odisha)**

GENERAL TECHNICAL SPECIFICATION OF MATERIALS

1 L.T. Power Cable:

The L.T power cables shall be of PVC insulated and PVC sheathed, 1100 Volt grade multi core GI wire / strip armored stranded aluminum conductor cables and should bear ISI mark. The cables shall confirm to IS:1554(Part-I) 1976.

- i) Month & year of manufacturer.
- ii) Transverse strength of pole in kg.
- iii) Maker's serial number and trade mark.

2 Rolled Steel Joist Poles:

The Rolled Steel Joist Poles (RS Joint Poles) shall be fabricated from ISMB of suitable cross section and length welded with M.S. base plate of minimum 300mm x 300mm x 6mm size and painted with a single coat of black bituminous paint up to the plating depth and rest with red-oxide primer. Earthing arrangement shall be made by drilling a hole of 18mm diameter at a height 1200mm above the plating depth. As far as practicable, welding of different lengths of ISMB should be avoided.

3 Structure Materials and Cross Arms:

The structure materials for DP structure shall be fabricated with specified section of mild steel materials as per the drawing and bill of quantity. These structure materials and cross arms shall be fastened with clamps or other structure materials by means of 5/8" dia GI bolts of appropriate length only. After fabrication or erection the structure materials shall be painted with two coats each of red-oxide primer and aluminum paint.

4 Lightening Arrestor:

Non-linear resistor type of distribution class lightning arrestor with 12 KV RMS voltage rating shall be used. The lightning arrestor shall conform to IS:3070(Part-I)/1974.

5 Air Break Switch:

The Air Break Switch shall be two-insulator version horizontally mounted type. The Switch blades and spring loaded contacts shall be made of silver plated copper. The vertical operating shaft shall be provided with guide clamps at suitable intervals and pad locking arrangements in both "ON" and "OFF" position. The Air Break Switches shall confirm to IS:1818/1972.

6 Horn Gap Fuse:

The Horn Gap Fuse shall confirm to IS:1818/1972

Signature of tenderer or his/their power
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Senior Manager(Mech.) – I,
OCCL, Central Workshop, Rasulgarh,
Bhubaneswar – 751010 (Odisha)

INSTALLATION

1. Cable Laying and Installation:

The cables shall be of approved make and tested at factory in presence of Engineer-in-charge of his authorised representative. The cables shall be dispatched to the work site packed on wooden drums with both ends properly sealed. Jointing of the cables in between the terminal points shall be avoided as far as possible. The cables shall be tested for insulation resistance by 500 volt insulation Megger. Cable loops for future requirement shall be kept at both ends as per direction of the Engineer-in-charge.

One number of 8 swg GI wire in case of single phase 230V ac system and two numbers 8 swg GI wire in case of multi phase 400V ac system shall run all along the trench or tray with the cables as earth continuity conductor .The supply and laying of earth continuity conductor such as GI wire or flat shall be considered separately in the schedule of quantity.

Minimum bending radius for PVC insulated cables shall be 1200mm. At joints and terminals, the individual core of multi care cable should never be bent so that radius of bending is less than 12 times the overall diameter of the cable.

The laying and installation of cable shall be carried out as per IS:1255/1983 .The methods of cable laying shall be following types depending upon the requirements.

- a. Laying directly under ground.
- b. Laying along building structural elements.

(a) Laying Directly under Ground:

Cable trenches shall be excavated cutting all types of soil and rock up to a minimum depth of 750 mm and of appropriate width(Not less than 350mm) to accommodate the cables and cable protecting materials within the tendered rate.

The sides and bottom of the trench shall be dressed and filled with 75mm thick layer of fine sand. The cables shall then be laid with bricks on 8 bricks per meter fashion .Space between the bricks shall be filled with fine sand up to 75mm above the top of the cable.

The trench shall then be filled up with the excavated materials free from stone or sharp edged debris and duly compacted. A crown of earth neither less than 50mm nor more than 100mm in the center and tapering towards the sides of the trench shall be left to allow for subsidence.

Cable route markers shall be installed at salient and strategically located points parallel to and 500mm or so away from the edge of the trench for easy identification of cable routes at a maximum interval of 10 meter for straight run.

In locations such as road crossing, pipeline crossing entry to buildings or poles on paved area etc. the cable shall be laid in pipes or closed ducts. Pipes provided for entry to building shall slope upward to prevent entry of water to the building. Stone, ware, cast iron, NP-2 class RCC pipes or medium class M.S./G.I. pipe of appropriate diameter shall be laid during the construction to avoid damage later on. The diameter of cable protecting pipes shall be at least 1.5 times the outer diameter of the cable.

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**Senior Manager(Mech.) – I,
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2. **Installation of Earthing:**

The earthing installation shall generally confirm to IS:3043/1996 and requirements of Indian Electricity Rules 1956.

All three phase medium voltage equipment shall be earthed by two separate and distinct connections with earth electrode. Single –phase equipment shall be earthed at least at one point. An earthing electrode shall not be situated within a distance of 1.5 meter from the building whose installation system is being earthed. The number of earthing may be increased to obtain the desired earth resistance. The earth resistance for various installations shall be restricted within the following maximum permissible limits.

| | |
|---|--|
| Distribution sub-stations | 2 Ohms |
| Hospital Buildings | 5 Ohms |
| Earth Continuity inside an installation | 1 Ohm(From electrode to any point in installation) |

The following types of earthing installation shall in general be provided

- a. Pipe earthing
- b. Coil earthing

(a) **Pipe Earthing :**

Pipe earthing electrodes shall be perforated GI pipe of specified length and diameter. Galvanizing of pipes shall confirm to relevant IS code. The GI pipe electrode shall be provided with holes of 12mm diameter drilled not less than 75mm from each other zigzag manner. A flange shall be welded to the electrode at the top of the pipe. The electrode shall be buried in the ground vertically with its top not less than 200mm below the ground level. The pipe earth electrode shall be surrounded by salt and charcoal in alternative layers.

A brick masonry chamber with removable RCC inspection cover of size 300mm X 300mm shall be constructed within the tendered rate. Watering arrangement shall be made with fuel ad wire mesh fixed by means of a reducer socket on the top of the electrode.

(b) **Coil Earthing:**

The coil earth electrode shall be made out of required number of closely wound 8 swg GI wire having 2 metre long lead at one end. Galvanizing of wires shall confirm to relevant IS code. The electrode shall be buried in the ground vertically with its top not less than 1200mm below the ground level. The coil earth electrode shall be surrounded by salt and charcoal in alternative layers.

3. **Installation of Earthing Loads:**

The earthing loads shall be either wires or strips of adequate size as specified. The GI leads shall be connected to the electrode by means of 16mm diameter GI nut bolts with flat and spring washer and the lined copper leads shall be connected to the electrode by means of 16mm diameter brass nut bolts with flat and spring washer. All earth connections shall be visible for inspection. The portion within the building shall be recessed or clamped at not more than 500mm interval in the walls/ columns beams etc and recessed in the floors. Joints in the earthing lead within the earth electrode and apparatus shall be avoided.

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Senior Manager(Mech.) – I,
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11KV LINE:

The 11KV line will be drawn on 8mtr long 200 kg. PSC pole with 55 mm² AAA conductor at an average length of 10 nos. poles per km. or part thereof. The poles should be digged upto 1/6th of length of pole in to the ground. The end points of conductor should be fixed with disc insulator B & S type and B & S type G.I hardware fittings. The intermediate points are to be binded with 11 KV pin insulator by aluminum binding wires tapes. All the end poles / angle points will be fixed with stay as per requirement. Each pole should be earthed by coil earthing made of No. 8 G.I wire. The cross arms should be connected to the earthing. The stay rods should be fixed in cement concrete as per the load on the stay.

11KV LINE GUARDING:

The 11KV line guarding should be provided on road crossing while drawing of 11 KV line U type guarding will be provided under the 11 KV line. The cross guarding will be at an interval of 01 mtr throughout the road crossing span of 11 KV line. The guarding cross arms should be 75 X 40 X 6 mm M.S. channel of 1.5 mtr. Length 5 nos. of No. 8 G.I wires will be drawn parallel to line conductor at bottom of guarding and 2 nos. of No 8 G.I wire at the side to make U type guarding. The crossing wires of No. 10 G.I wire forming U type to protect the live conductor falling on the ground. One no. stay to each guarding cross arms is to be provided on both sides of guarding.

L. T. LINE:

The LT line will be drawn on 7.5 mtr. Long 200 kg. PSC pole with 34 mm² AAA conductor. 1/6th of pole length should be digged in to ground. The L.T. cross arms will be 75 X 40 X 6mm M.S channel suitable for drawing 3 phase 5 wire L.T. line. Required bolts, nuts, washers will be provided for fixing of cross arm. Neutral points of cross arm will be fixed by L.T. stay insulators with G.I. L.T. straps, bolts and nuts. All intermediate points will be L.T. pin insulators L.T. stay sets are to be provided with G.I. stay rod, stay plate, turn buckle, thimble and cement concreting are to be done to stay rod/ plates as required L.T. line spacers are to be provided one for each span of L.T. line at the middle for proper spacing between the phase and neutral wire.

TESTING:

Before a completed installation or an addition to an existing installation is put in to service the following tests shall be carried out by the electrical contractor in presence of Engineer-in-charge.

- i) Polarity test
- ii) Insulation resistance test
- iii) Earth continuity test
- iv) Earth electrode resistance test

i) Polarity Test:

It shall be ensured by this test that the single pole switches have been fitted on the live side of the circuit they control. In a two-wire installation, test shall be made to verify that all switches in every circuit have been filled to phase conductor on non-earthed conductor or the circuit. In three or four wire installation, test shall be performed to verify that every non-linked single pole of switch is connected to one of the phase conductor of supply.

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**Senior Manager(Mech.) – I,
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Bhubaneswar – 751010 (Odisha)**

ii) **Insulation Resistance Test:**

The insulation resistance shall be measured by applying between earth and whole system of conductors or any action thereof with all fuses in place and all switches closed and except in earth concentric wiring. All lamps in position or both poles of installation otherwise electrically connected together, a DC voltage of not less than twice the working voltage provided that it does not exceed 500 volts for medium voltage circuit. The insulation resistance of an installation measured as above shall not be less than 50 Mega-ohms divided by the number of points of the circuit provided that the whole installation shall be required to have insulation resistance greater than one Mega-ohms.

iii) **Earth Continuity Test:**

The earth continuity conductor including metal and metallic envelope of cables in all cases shall be tested for electric continuity and electrical resistance of the same along with the earthing lead shall not exceed 1 ohm.

iv) **Earth Electrode Resistance Test :**

The resistance of each earth electrode shall be tested with an earth tester and the combined earth resistance of the earth grid of an installation shall be maintained as mentioned below.

| | | |
|---------------------------|---|--|
| Distribution Sub-stations | : | 2 ohms |
| Hospital Buildings | : | 5 ohms |
| | : | Earth Continuity inside an installation 1 ohm (from electrode to any point in installation) |

The completed installation shall be taken over only if the results obtained from the above tests are within the limits mentioned above and in accordance with I.E. Rules. On completion of testing of installation, a certificate shall be furnished by the contractor countersigned by the certified supervisor having a valid electrical supervisory license issued by Electrical Licensing Board of the State Government under whose direct supervision the installation was carried out. The certificate shall in a prescribed form obtainable from local supply authority.

v) **Inspection by Electrical Inspector :**

The contractor will be responsible to get it approved from Electrical Inspector and also held responsible to liaison with WESCO for handing over the same to WESCO after charging at his cost.

General Instruction

- (i) The drawing enclosed is for tender purpose giving general idea of the work. Execution to be done as per the construction drawing and instruction of Engineer-in-charge.
- (ii) Tenderers to visit the site and acquaint himself of the site condition and constraint before tendering. His rate should be inclusive of clearing of such hindrances and taking care of such site constraints.

8. Duties and responsibilities of the second party:

9.1(K) Before execution of work all relevant drawings should get approved from the concerned Electrical Inspector, Govt. of Odisha and also to obtain necessary clearance from the Electrical Inspector. Govt. of Odisha for energization of the installation.

Signature of tenderer or his/their power
of attorney holder with date, full name,
designation and official seal

Senior Manager(Mech.) – I,
OCCL, Central Workshop, Rasulgarh,
Bhubaneswar – 751010 (Odisha)

GENERAL TERMS AND CONDITIONS

1. DEFINITIONS

- (i) **“CORPORATION”** means **“ODISHA CONSTRUCTION CORPORATION LTD. (“OCCL” in short)”** with registered office at Unit-8, Gopabandhunagar, Bhubaneswar – 751 012 (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.)-I / Senior Manager(Mech.)-II / Senior Manager(Mech.)-III Odisha Construction Corporation Ltd., Central Workshop, Rasulgarh, Bhubaneswar – 751010 (Odisha) or their authorized person”
- (iii) **“JOB-WORKER / SUCCESSFUL BIDDER”** means the enlisted person/firm/organisation having men, machinery, materials etc. to execute the work satisfactorily as per scope indicated herein within stipulated period.
- (iv) **“CLIENT”** means the State Govt. or Central Govt. organization or any individual from whom “OCCL” has received the work for execution.

2. AGREEMENT

The “Job-Worker” 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. RATE

The rate quoted by the quotationer 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 “Job-Workers” should be firm for the entire period of execution.

The “Job-Worker” shall quote the rates to complete the works as per specifications inclusive of handling, loading, unloading, shifting, 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.

4. PAYMENT TERMS

- i) Payment shall be made on unit basis as per bill of quantities mentioned in the price schedule for the work.
- ii) 80% (Eighty) payment shall be made only after the work at site against submission of bills by the “Job-worker” and verification items by the “Engineer-in-Charge” & Balance 20% (Twenty) payment shall be made after 60(Sixty) days of commissioning, testing and satisfactory performance of works.
- iii) No advance, price escalation and price adjustment shall be paid for the work. The rates shall remain firm through out the agreement period.
- iv) The payment to the “Job-Worker” shall be limited to the measurements taken basing on actual execution. The “Job-Worker” can not raise any dispute over the measurements allowed by the “Engineer-in-Charge” for the purpose of payment.

**Signature of tenderer or his/their power
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**Senior Manager(Mech.) – I,
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- v) The job-worker will bear the full cost of rectification or replacement of works required as per direction of “Client” or “Engineer-in-Charge”.
- vi) Any penalty levied by “Client” on “OCCL” due to delay in work will be borne by the “Job-Worker” in full, if the “Job-Worker” is responsible for delay.

5. INITIAL SECURITY DEPOSIT (ISD)

The “Job-Worker” shall deposit Initial Security Deposit (ISD) at the rate of 2(Two) % of the work/agreement value on receipt of letter of intent of work within a period of 15 days from the date of issue but before execution of agreement. After receipt of the full ISD, the EMD received along with the tender shall be returned.

If the quotationer desires, the EMD can be converted to ISD and the balance amount of ISD has to be deposited. If the “Job-Worker” fails to deposit such initial security within the stipulated date, the EMD of the “Job-Worker” shall be forfeited and the work may be awarded in favour of some other agency at the discretion of the “Corporation”.

7. SECURITY DEPOSIT (SD)

The Security Deposit (SD) at the rate of 5(Five)% shall be deducted on the gross amount of each bill of the “Job-Worker”. The security will be released after 6(Six) months of completion of the work or settlement of final bill of the “Job-Worker”, whichever is later, if no defect in the work is noticed and material account as well as all disputes including compliance of labour rules, ESI rules etc. are settled.

8. ADDITIONAL SECURITY DEPOSIT

The “Engineer-in-Charge” may, if he feels it necessary, can deduct and withhold from the bill of the “Job-Worker” a sum not exceeding 10% and not less than 5% of the gross value of work done as additional security deposit for the rectification of defective and/or unsatisfactory work.

The additional Security Deposit shall be deducted in addition to normal security deposit. Such defects shall be rectified by the “Job-Worker” within such period as the “Engineer-in-Charge” may fix-up and if the “Job-Worker” fails to rectify the defects within the specified period, this shall be rectified by the “Engineer-in-Charge” at the cost and risk of the “Job-Worker”.

The expenses so incurred in the rectification of the defective works and/or unsatisfactory work done by the “Job-Worker” shall be recovered from the bills or any other dues of the “Job-Worker” or otherwise as per law. In this connection, the decision of the “Engineer-in-Charge” shall be final and binding on the “Job-Worker”. The additional security deposit shall be released in full, when the “Job-Worker” rectifies the defects in time at his cost.

9. WITH HELD AMOUNT FOR EPF, FPF AND ESI DUES

2(Two)% shall be deducted and kept withheld from R.A. bills of the “Job-Worker” towards EPF, FPF and ESI dues. If the “Job-Worker” produces clearance in support of deposit of EPF, FPF and ESI dues with the concerned authority within 3(Three) months from the end of each financial year, the above withheld amount shall be released. Otherwise, the “Corporation” shall deposit the same with Provident Fund Authority and ESI Authority. Penalty, if any, shall be recovered from the “Job-Worker”.

10. INCOME TAX, GST, OTHER TAXES, DUTIES, LEVIES ETC.

Income tax at the prevailing rate from time to time will be deducted from each bill of the “Job-Worker” and shall be deposited with Income Tax Authorities. Any other taxes, duties, royalties, levies etc. as applicable from time to time shall also be deducted.

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11. OPTIMUM USE OF MACHINERY, VEHICLES, EQUIPMENTS, TOOLS, TACKLES, CONSUMABLES AND STEEL MATERIALS

The "Job-Worker" shall ensure optimum utilisation of the plants, machinery, equipments, tools, tackles, consumables, steel materials etc.(If supplied to Job-Worker) and shall not create any hindrance for others. The decision of the "Engineer-in-Charge" regarding the optimum requirement shall be final and binding on the "Job-Worker". Idle charges for machineries shall be deducted from the Job Worker in case the same have not used optionally and kept idle.

12. RECORD OF MATERIALS, CONSUMABLES, MACHINERY, EQUIPMENTS, TOOLS, TACKLES ETC.

The "Job-Worker" shall be responsible for maintaining the data and complete records of issue and consumption of materials and consumables as well as record of plants, machinery, equipments, tools, tackles, steel materials etc. issued. The materials, plants, machinery, equipments, tools, tackles, steel materials etc. shall be issued as per requirement and availability only. Crane, machinery, materials, tools, tackles etc. required at erection site, shall be arranged by Job worker.

The materials supplied by the "Corporation" will be received by the "Job-Worker" from the "Corporation" store on submission of indent by the "Engineer-in-Charge". Transportation of materials to site of work and storage at site are the responsibility of the "Job-Worker".

The "Job-Worker" will keep an accurate record of "Corporation" materials and furnish the consumption statement of such materials. The surplus materials, if any, are to be returned to the "Corporation" store at his cost failing which, the cost of excess materials will be recovered from the dues of the "Job-Worker" @ 5(Five) times the issue rate of "OCCL" or market rate, whichever is higher.

The materials, if and when supplied by the "Job-Worker", shall be of the best and suitable quality as per specifications stipulated in the technical specifications and subject to approval of "Engineer-in-Charge"/"Client", whose decisions, as regards quality of the materials, shall be final.

13. RETURN OF PLANTS, MACHINERY, EQUIPMENTS, TOOLS, TACKLES, MATERIALS, CONSUMABLES ETC.

The plants, machinery, equipments, tools, tackles, excess steel materials, excess consumables etc. of the "Corporation" are to be returned by the "Job-Worker" in good working condition after completion of the work/termination of the contract by the "Corporation". The "Corporation" may hire plants, machinery, equipments, tools, tackles etc. from the owner as well as outside for use in work. The same are also to be returned by the "Job-Worker" 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, tools, tackles etc. during use by the "Job-Worker" shall be booked to the "Job-Worker" for recovery from his bills.

The balance unused/excess steel materials, consumables etc. of the "Corporation", if any, shall be returned by the "Job-Worker" in good condition at specified places as per direction of the "Engineer-in-Charge" failing which the cost at 5(Five) times the market rate shall be deducted from the "Job-Worker".

14. SCRAP STEEL MATERIALS

The scrap steel materials generated during execution of work out of steel materials issued by "OCCL" shall be the property of the "Corporation". It is the responsibility of the "Job-Worker" to collect and stack them at proper location/locations as per direction of the "Engineer-in-Charge". The "Job-Worker" shall be responsible for return of the same. An unaccounted loss of 0.5% shall be allowed. Balance has to be returned to the "Corporation". In case of non-return of the same, the cost as decided by the "Engineer-in-Charge" shall be recovered from the "Job-Worker".

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15. ELECTRICITY

Electricity required for erection of work at site shall be arranged by the Job worker at their own cost.

16. MEASUREMENT OF WORK

The quantity of work executed shall be measured and payment made once in a month or 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 "Job-Worker".

17. INDIAN STANDARDS, DRAWINGS AND SPECIFICATIONS

The work shall be carried with due diligence and in a workman like manner in accordance with relevant Bureau of Indian Standard specifications on the basis of latest approved drawings and technical specifications supplied by "Corporation" in absence of which as per the direction of "Engineer-in-Charge".

.The technical specifications in the relevant agreement between the "Corporation" & owner and approved drawings & technical specifications issued by the owner & "Corporation" shall be the basis for execution of work under the agreement. In the absence of approved drawings and technical specifications, the direction of the "Engineer-in-Charge" shall be final and binding on the "Job-Worker".

The "Job-Worker" shall make arrangements to take copies of the approved drawings from the office of the "Engineer-in-Charge" for reference during execution of work.

18. PAYMENT TO WORKMEN

The "Job-Worker" should maintain job register and payment rolls of their workmen and get those checked by the "Engineer-in-Charge" or his authorised representative from time to time. The payment to the workers/ supervisory staff shall be made by the "Job-Worker" in the presence of the owner and/or "Engineer-in-Charge" or his authorised representative. The paid pay roll register shall be signed by the "Engineer-in-Charge" or his authorised 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 "Job-Worker" shall be released.

19. WORKMEN COMPENSATION

In case of any loss due to accident arising during/in connection with execution of the contract, the "Job-Worker" will pay compensation to his workmen. The "Job-Worker" 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 "Job-Worker" fails to do so, the "Corporation" may pay the same and recover the same from the bills/ dues of the "Job-Worker".

20. INFORMATION OF WORKMEN

The "Job-Worker" will make his own arrangements for procurement 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.

21. STATUTORY REQUIREMENTS

The "Job-Worker" 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, employee's state insurance rules etc. A certificate to this effect shall be enclosed by the "Job-Worker" with each Running Account Bill for payment.

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22. MINIMUM AGE OF WORKMEN

The "Job-Worker" 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 "Job-Worker" 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.

23. LABOUR LICENCE

The "Job-Worker" has to obtain valid labour licence 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.

24. MINIMUM WAGE ACT

The "Job-Worker" 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".

25. NON-PAYMENT OF DUES OF LABOURERS

If the "Job-Worker" fails to pay the dues of labourers engaged by him for this work in time, the same shall be paid by the "Engineer-in-Charge" directly to the deserving workers. The expenditure so incurred on account of non-payment or less payment shall be recovered from the bills or any other dues of the "Job-Worker".

26. PROVIDENT FUND (PF)

Employees Provident Fund., wherever applicable, shall be payable by the "Job-Worker" as per the Provident Fund Rules in force and shall keep the "Corporation" indemnified for it. He should get the registration number for this from the Regional Provident Fund Commissioner, Odisha. He shall produce the records in support of payment of EPF/FPF dues to the "Engineer-in-Charge" for check and record by the "Engineer-in-Charge".

27. EMPLOYEES STATE INSURANCE SCHEME (ESI)

The Employees State Insurance Scheme(ESI), wherever applicable, shall be payable by the "Job-Worker" as per the E.S.I. Rules in force and shall keep the "Corporation" indemnified for it. He shall produce the records in support of payment of ESI dues to the "Engineer-in-Charge" for check and record.

28. WORKMEN INSURANCE

The workmen insurance shall be the responsibility of the "Job-Worker". He shall produce the records in support of workmen insurance to the "Engineer-in-Charge" for check and record.

29. HUTMENTS/TEMPORARY ACCOMMODATION

The "Job-Worker" has to arrange hutments/temporary accommodation for his own labourers/ workmen at the work site at his own cost.

30. IDLE LABOUR

"OCCL" will not be held responsible for idle labourers of the "Job-Worker" for any reason, whatsoever and no claim on this account will be entertained.

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31. WORKING IN SHIFTS

If necessary, the “Job-Worker” may be asked to work in two(2) or 3(three) shifts. Normally, the work shall be executed in shifts. The “Job-Worker” may, if required, have to engage the workmen on overtime to complete the work in scheduled time. The overtime cost shall be borne by the “Job-Worker”.

32. CLAIMS AND LIABILITIES

All claims/liabilities etc. arising out of Explosives act and labour laws shall be borne by the “Job-Worker” 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 “Job-Worker” or shall be recovered otherwise as per law from him.

33. SAFETY

The “Job-Worker” should abide by the safety laws and rules of statutory bodies, “Corporation” and owner as per directions of “Engineer-in-Charge” and Safety Officers inspecting from time to time.

34. WATCH AND WARD

The “Job-Worker” shall arrange watch and ward and safety of the site of work, constructed structures, machinery, vehicles, equipments, tools, tackles, consumables, steel materials etc. of the “Corporation” and owner at his own cost.

35. AUTHORISED PERSON

The “Job-Worker” may in writing authorise 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 authorised person of the “Job-Worker” 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 “Job-Worker” or it shall be recovered from the bill/payment due to him.

36. SPLITTING UP WORK

The successful Job worker shall have to execute the erection, painting, commissioning, testing and related civil works. No splitting up work shall be made and there may be increase or decrease in the quantity of work mentioned in the quotation document without assigning any reason thereof and no claim whatsoever will be entertained on this account. The quantity as per agreement may also increase or decrease as per actuals.

37. 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 “Job-Worker”. The decision of the “Engineer-in-Charge” in this regard shall be final and binding on the “Job-Worker”. The amount remaining as outstanding against the “Job-Worker” 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 “Job-Worker” from works done by his under any other organization or from his properties.

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38. 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 “Job-Worker” does not co-operate in taking final measurements after termination of contract.

39. RESPONSIBILITY OF JOB-WORKER

The work shall be completed by the “Job-Worker” in all respect within the stipulated period of completion and the responsibility of the “Job-Worker” shall cease only, when the items are fully accepted by the owner after erection at project site.

40. PROGRESS OF WORK AND PENALTY

The “Job-Worker” will achieve the desired progress as per programme.. If the “Job-Worker” fails to achieve the contracted quantity every month as per programme, penalty at the following rates shall be imposed.

| Sl. No. | Failure percentage(%) | Penalty percentage(%) |
|----------------|--|---|
| (i) | Less than 10(Ten)% | 1(One)% of value of defaulted quantity |
| (ii) | Above10(Ten)% and upto 20(Twenty)% | 2(Two)% of value of defaulted quantity |
| (iii) | Above 20(Twenty)% and upto 30(Thirty)% | 5(Five)% of value of defaulted quantity |
| (iv) | Above 30(Thirty)% | To be asked to demobilise with penalty equivalent to 10(Ten)% of value of defaulted quantity. The “Engineer-in-Charge” will off-load the work and get the work done through any other agency or of its own at the risk and cost of the “Job-Worker”. No claim will be allowed to the “Job-Worker” in this regard. |

41. REJECTION DUE TO BAD WORKMANSHIP

The rejection due to bad workmanship shall be charged to the “Job-Worker” at a cost of rejected items plus 20(Twenty) %.

42. TESTING OF WELDERS AND OTHER SKILLED/SEMI-SKILLED WORKMEN

The qualification test of welders and other skilled/semi-skilled workmen may be conducted at site by the “Engineer-in-Charge” and only qualified welders and other skilled/semi-skilled workmen shall be deployed for the work. The cost of testing shall be borne by the respective “Job-Worker”.

43. QUALITY ASSURANCE AND QUALITY CONTROL

Quality Assurance/Quality Control Plan shall be prepared before commencement of site activities and shall be followed maintaining stage-wise up-to-date record of the work.

44. SITE VISIT

The “Job-Worker”, 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.

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45. DEVIATION OF PROVISIONS IN AGREEMENT

The “Job-Worker” will not vary or deviate from the provisions in the agreement without obtaining prior permission in writing from the “Corporation”.

46. RIGHT OF THE “CORPORATION”

The “Corporation” reserves the right to cancel a particular quotation call or all quotation calls without assigning any reason thereof. The offer of any quotationer or all may be cancelled without assigning any reason thereof. The requirement shown in any quotation call notice are only indicative and may vary.

47. SUB-LETTING

The work under any agreement shall not be assigned or sublet to any body by the “Job Worker”. If the “Job-Worker” shall assign or sublet or attempt to do so, the “Engineer-in-Charge” shall terminate the agreement and shall get the work done through any other agency or of its own at the risk and cost of the “Job-Worker”. No claim will be allowed to the “Job-Worker” in this regard. “OCCL” reserves the right to have access also to units of the “Job-Worker” to verify, if works are actually executed by him.

48. EXECUTION OF EXTRA ITEMS AND EXTRA QUANTITIES

All extra items are to be executed by the “Job-Worker” at mutually agreed rates. All extra quantities are to be executed at agreement rates. If required, the “Job-Worker” has to furnish the working analysis as per actuals to arrive at the extra items rates.

49. FORCE MAJEURE:

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 unurped power which prevent performance of the contract and which could not be foreseen or avoided by a prudent person.

50. JURISDICTION

For all liabilities created under the various contractual obligations/impositions under this agreement, the “Job-Worker” 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 “Job-Worker” 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.

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**ODISHA CONSTRUCTION CORPORATION LTD.
(A GOVT. OF ODISHA UNDERTAKING)
CENTRAL WORKSHOP, RASULGARH,
BHUBANESWAR-751010 (ODISHA)**

Price schedule for the work : Installation, commissioning and testing of 11kv, 3 phase overhead line of around 0.825km with 1 no 11 meter joist pole, 250KVA 11/0.4KV DP mounted S/S, cut point and road crossing etc., as per required and guarding with all protection system with 11KV/0.433KV 250KVA transformer with all fittings at Passenger Ropeway Project, Hirakud site vide tender call notice No. OCC/CWS/PROC./PRHP-03/64/18-19 dated 14.12.2018

| Sl. No | Description of items | Qty required in Unit | Rate per each unit | | | | Total Amount for full quantity required in ` | |
|--------|--|----------------------|--|---------------------------------|--------------------------------|-----------------------------------|--|----------|
| | | | Basic price including, unloading, loading, shifting, handling charges etc. as required in ` per unit | GST as applicable in ` per unit | Total in figures in ` per unit | Total in words in rupees per unit | In figures | In words |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 1 | Supply erection and testing of 11 mtr long 150 x 150 mm RS joist poles duly fabricated to be used as double pole structure fixing with MS base plate of size 200 x 200 x 6mm duly welded including excavation of pole pits in all kinds of soil of size 600 x 900 x 1500 mm and base padding of 200 mm thick with 1:3:6 cement concrete before erection of poles. The poles shall be erected in truly vertical position and the pit is fitted with 1:3:6 cement concrete mixture of size 450 x 600 x 1500 mm and muffin be provided on pole up to 400 x 400 x 400 mm above grounded level and back fillings , painting of poles with two coats of bitumen paints on portion buried under ground two coats of red oxide and two coats of aluminum paints on portion above ground level shall be applied fixing of danger board and complete as required and as per the direction of Engineer-in-charge. . | 1 No | | | | | | |
| 2 | Supply and erection of structure bracing materials duly fabricated and painted with two coats of aluminum paints including clamps / nuts bolts / washer | | | | | | | |

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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---------|---|---|---|---|---|---|
| a | 3.2 m long 2 nos. ISMC-100 for LA (Top Bracing) | 1 set | | | | | | |
| b | 3.2m long and 0.35 m long 2 nos. each ISMC-75 for AB switch mounting | | | | | | | |
| c | 1.8 m long ISMC-75 and 2.4 m long ISA -50 2 nos. each for cantilever and 3.2 m long 2 mtr ISMC-75 HG fuse mounting | | | | | | | |
| d | 3.2 m long ISMC -100 2 nos. 2 nos. 3.2 m long ISA 40 for transformer | | | | | | | |
| e | 3.2 m long 2 nos. ISMC-75 for bracing support and 3.5 m long ISA-50 2 nos. for cross bracing | | | | | | | |
| 3 | Supply fixing and testing of 11 KV Disc insulator B & S type as per relevant IS Code | 9 Nos. | | | | | | |
| 4 | Supply fixing and testing of 11 KV Hard ware fitting B & S type as per relevant IS Code | 9 Nos. | | | | | | |
| 5 | Supply, fixing of 100 mm 2 AAAC for connection to equipments with suitable aluminum sockets and jumpering with aluminum tape binding and wrapping with HT ampere tape complete and as directed by Engineer -in-charge | 0.10 km | | | | | | |
| 6 | Supply erection and testing of 12 KV 5 KA distribution type lightening arrester including cost of mounting arrangement nuts and bolts etc. inter connecting the base with 25 x 6 mm GI flat to be drawn up to earth station separately made for lightning arrester connections as per relevant IS code and as directed by Engineer-In- Charge | 3 Nos | | | | | | |
| 7 | Supply fixing and testing of 11 KV 400 Amp. Gang operated single break horizontal mounted out door type 3 phase 50 HZ AB Switch having 2 Nos. of 11 KV post insulator per phase (Original connected) as per IS:9990 (Part-I to IV) and IS:2544 / 73 for post insulators. | 1 set | | | | | | |
| 8 | Supply fixing and testing of 11 KV 400 Amp. 50 HZ 3 phase Horn gap fuse suitable for outdoor distribution Sub-station as per ISS-5792 / 72 with 2 Nos. of 11 KV post insulators per phase conforming to ISS-2544 / 73 | 1 set | | | | | | |
| 9 | Cost of Erection of 01 (one) no of single pole cut point with double disc arrangement of 3 phase 3 wire 11 KV over head line on 9 mtr 150 x 150 mm R.S joist pole | 3 Nos | | | | | | |

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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|----|--|---------|---|---|---|---|---|---|
| 10 | Supply, fixing and testing of 3m long 40 mm 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 and as per approved drawing | 5 Nos | | | | | | |
| 11 | Supply fixing and testing of earth connecting 40 x 6 mm GI flat laid under ground | 20 Mtr | | | | | | |
| 12 | Supply fixing and testing of 25 x 6 mm GI flat for running earth connection between L.A , A.G switch handle Bracing members etc. and earth stations | 35 Mtr | | | | | | |
| 13 | Supply and fixing of H.T stay set with stay rod casting in ground fixing Anchor plate Size 200 x 200 x 6 mm having centre hole 18 mm dia Binding with 7/8 GI stay wire complete with Turn buckle Thimble and stay insulator etc. as per IS 1363 / 67 & IS:1367/67 | 2 Nos | | | | | | |
| 14 | Supply fixing with crimping aluminum sockets with bi-metallic washer and testing of following size 31/2 core PVC aluminum armored power cable of 11 KV grade confirming to IS-1554/78 | | | | | | | |
| a) | 3 .5 core 240 Sq.mm | 100 Mtr | | | | | | |
| 15 | Supply and fixing of 11 KV Danger Board confirming to IS-2551 / 63 | 1 No | | | | | | |
| 16 | Supply , Installation , testing and commissioning of L.T out door floor mounted distribution board made out of 2mm thick C.R sheet metal cubicle fixe on MS channel frame work, duly acid treated for de-rusting primer red and painted with 2 coats of enamel paint of approved shade IP -54 class of protection , having hinged housing switch gears , provision of cable entry and out with cable glands earthing bus-bar duly , factory wired confirming to relevant IS and as per direction of Engineer-in-charge | 1 set | | | | | | |
| a | 250 KVA | | | | | | | |
| | Incoming - 400 Amp FP MCCB 1 No | | | | | | | |
| | Outgoing- 400 Amp FP SDFU 2 Nos. | | | | | | | |
| 17 | Construction of Sub - Station fencing up to 2400mm height from finished ground level with ISA -50 fencing post and 6 row of equal space barbed with complete with required foundation painting with 2 coats red oxide and 2 coats aluminum paints and as directed by Engineer-in-charge | 17 Mtr | | | | | | |

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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|----|---|-------------|---|---|---|---|---|---|
| 18 | Supply and fixing of double leaf iron gate of size 1500 x 1500 mm including construction of masonry gate pillars and painting the gate as per direction of Engineer-in charge | 1 No | | | | | | |
| 19 | Leveling of sub- station area by filling of good quality of soil to maintain level at 150 mm above the existing ground level. | 24 Sq.mm | | | | | | |
| 20 | Sand spreading over S/S area up to average height of 50 mm including supply of sand | 24 Sq.mm | | | | | | |
| 21 | Supply of spreading of 200 mm thick layer of 40-50 mm hand broken hard granite metal complete as required. | 24 Sq.mm | | | | | | |
| 22 | Supply , erection testing and commissioning of 11 KV 3 phase head line with 100 mm ² AAA conductor on 9 mtr long 150 x 150 mm R.S joist. The size of pole pit should be 600 x 900 x 1500 mm dug in all type of soil with base padding of 200 mm thick 1:3:6 cement concrete shall be done before erection of pole and back filling property and concreting the pole with concrete mixture of size 450 x 600 x 1300 mm and muffing be provided on pole up to 400 x 400 x 400 mm above the ground level each pole should be provided with coil earthing to be grounded 800mm below the ground level by digging a separate pit and filling the pit with soil , each pole should be provided with a running earthing with no.8 GI wire from top cross arm property bolted and joined in the bottom nuts provided in the pole with the end of coil earthing the pole shall be erected with a span of 90 to 100 mtr. Necessary GI stay sets with 7/ 8 GI stay wire and stay insulating shall be provided wherever necessary with proper casting of stay rod with a 400 x 400 mm RCC base plate bolted. The poles shall be painted with one coat of red oxide paint and two coats aluminum paint. | 0.825 Km | | | | | | |
| 23 | Excavation of cable trench(1 ft X 1ft X 150ft) with Maintaining depth of trench as per standard for Ht and LT cable laying | 0.05 Km | | | | | | |
| 24 | Installation, Commissioning and testing of 250KVA 11/0.433, outdoor transformer. | 1 No. | | | | | | |

**Signature of tenderer or his/their power
of attorney holder with date, full name,
designation and official seal**

**Senior Manager(Mech.) – I,
OCCL, Central Workshop, Rasulgarh,
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