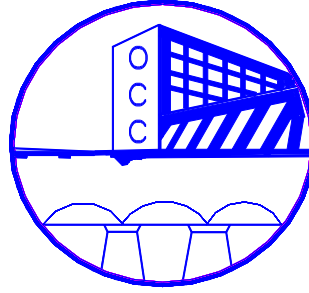


**ODISHA CONSTRUCTION CORPORATION LTD.**  
**(A Government of Odisha undertaking)**  
**REGIONAL WORKSHOP**  
**JEYPORE, KORAPUT – 764002 (ODISHA)**



DESIGNED TO EXCEL

**TENDER DOCUMENT**

TENDER CALL NOTICE NO: OCCL/RWS/ 03 /2018-19 Dated.21.09.2018

Name of work: “Design, Supply, Transportation, Erection , Testing and Commissioning of 10 Ton Capacity Monorail Crane for operation of stoplogs for Upper Kolab Project, Kolab Nagar, Dist: Koraput, Odisha”.

The tender document comprises of the following:

- |    |   |                   |
|----|---|-------------------|
| 1) | Tender call notice including front page of tender document.   | - 4(Four) sheets  |
| 2) | Particular of tender document issue,<br>EMD & document deposit particulars,<br>Undertaking of Tenderer. | - 3(Three) sheets |
| 3) | General terms and condition.  | - 3(Three) sheets |
| 4) | Technical specification.  | - 3(Three) Sheets |
| 5) | Bill of Quantities & Price Schedule.  | - 1(One) Sheet    |

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Total:- 14 (Fourteen) sheets

Signature of Tenderer or his  
Power of attorney holder with date,  
full name, designation and official seal

Senior Manager (Mechanical)  
OCCL, Regional Workshop,  
Jeypore, Koraput-764002 (Odisha)

**ODISHA CONSTRUCTION CORPORATION LTD.**  
**(A Government of Odisha undertaking)**  
**REGIONAL WORKSHOP**  
**JEYPORE, KORAPUT – 764002 (ODISHA)**

No: OCCL/RWS/ 844

Dated. 21.09.2018

Tender Call Notice No.: OCCL/RWS/ 03 /2018-19 Dated.21.09.2018

Name of Work: “Design, Supply, Transportation, Erection , Testing and Commissioning of 10 Ton Capacity Monorail Crane for operation of stoplogs for Upper Kolab Project, Kolab Nagar, Dist: Koraput, Odisha”.

1. On behalf of M/s. Odisha Construction Corporation Ltd. (“OCCL”), the Senior Manager (Mechanical), Regional Workshop, Jeypore, Koraput, Odisha invites sealed tenders from the reputed Manufacturers /Dealers/ Reputed Organizations for the following work(s).

Sl. No.	Name of the work	EMD	Cost of Document (Including GST 12%)	Period of completion	Class of job-workers
1.	“Design, Supply, Transportation, Erection, Testing and Commissioning of 10 Ton Capacity Monorail Crane for operation of stoplogs for Upper Kolab Project, Kolab Nagar, Dist: Koraput, Odisha”	1% of quoted value	Rs.6720/-	02(Two) months from the date of issue of work order	Manufacturers/ Dealers / Reputed Organizations

Cost of tender document (Non-refundable)	Sale of tender document		Receipt of tender	Opening of tender
	From	To		
Rs.6720/- By hand and Rs.6820/- by Speed post inclusive of GST 12% on Rs.6000/-	22.09.2018	03.10.2018 Upto2.00PM	03.10.2018 Upto3.00 PM	03.10.2018 at 4.00 PM

2. The tender document may be purchased by hand from the office of the Senior Manager (Mechanical), Odisha Construction Corporation Ltd., Regional Workshop, Jeypore, Dist.: Koraput, Odisha on any working day during office hours on deposit of cost of tender document as indicated in the table above in shape of cash/ account payee Demand Draft/ account payee Banker’s Cheque drawn in favour of “**Odisha Construction Corporation Ltd., Project Account**” on any Nationalized Bank/Scheduled Bank payable at Jeypore (Odisha) (Non-refundable) and production of attested copies of following documents and verification thereof by the Senior Manager (Mech.).

- (i) Copy of up-to-date valid GST certificate.
- (ii) Copy of PAN Card.
- (iii) Credentials in support of supply & commissioning of similar items of similar magnitude and Satisfactory performance thereof.
- (iv) Copy Authorised dealership / Stockiest Certificate, if not a manufacturer.

3. The tender documents can also be obtained by Registered Post/Speed Post on sending the cost of tender document as indicated in the table above in shape of account payee Demand Draft drawn in favour of “**Odisha Construction Corporation Ltd., Project Account**” on any Nationalized Bank/Scheduled Bank payable at Jeypore (Odisha) (Non-refundable) and self attested copies of above documents and verification thereof by the Senior Manager (Mech.), OCCL shall not be responsible for any kind of delay by Postal/Courier authorities.

Signature of Tenderer or his  
Power of attorney holder with date,  
full name, designation and official seal

Senior Manager (Mechanical)  
OCCL, Regional Workshop,  
Jeypore,Koraput-764002 (Odisha)

4. The tender document can also be downloaded from the OCCL website [www.odishaconstruction.com](http://www.odishaconstruction.com) or Govt. of Odisha website [www.tendersodisha.gov.in](http://www.tendersodisha.gov.in). However, the cost of tender document as indicated in the table above must be deposited with the tender documents in shape of account payee Demand Draft drawn in favour of “**Odisha Construction Corporation Ltd., Project Account**” on any Nationalized Bank/Scheduled Bank payable at Jeypore (Odisha) (Non-refundable) along with attested photo copies of all below mentioned documents, otherwise, the tender shall be cancelled. OCCL shall not be responsible for missing of any pages, while downloading the tender documents.
5. The tenders must be accompanied with Earnest Money Deposit of the amount specified for the work in the table above in any one of the forms specified in the tender document.
6. The tender document must be submitted in the office of **Senior Manager (Mechanical)**, Odisha Construction Corporation Ltd., Regional Workshop, Jeypore, Koraput, Odisha, which shall be received and opened as per the date and time indicated in the table above in presence of the tenderers or their authorized representatives, if so they desire. If the date of purchase of the tender document or last date of receipt of tender or opening of tender happens to be a holiday, the date shall be deferred to the next working day, however, the time and venue shall remain unaltered.
7. Intending tenderers are required to furnish the following documents.
- (i) Complete tender document duly filled-in, signed & stamped on each page.
  - (ii) Earnest money (EMD).
  - (iii) Original Money Receipt (in case the document is collected by hand or post).
  - (iv) Cost of tender document (in case the document is downloaded from website).
  - (v) Copy of up-to-date valid GST.
  - (vi) Copy of PAN card.
  - (vii) Copy of document indicating residential address.
  - (viii) Detail planning of men, machinery and materials for execution of tendered work.
  - (ix) Credentials in support of supply & commissioning of similar items & satisfactory performance.
  - (x) Copy of Authorised Dealership Certificate/Stockiest Certificate, if not a manufacturer.
8. Tender through Fax/Telex/Telegram/e-mail shall not be accepted.
9. The authority reserves the absolute right to accept or reject any or all tenders and to split up works to award to one or more tenderers without assigning any reason thereof.
10. The intending tenderer is to quote rates in enclosed original price schedule format.
11. The successful tenderer shall have to execute the work as per scope of work, relevant drawings, technical specifications, terms and conditions of agreement and direction of Engineer-in-charge.
12. Any dispute arising out of this tender or order thereof is to be settled in proper court under the jurisdiction of Odisha High Court, Cuttack or Courts under the jurisdiction of Odisha High Court at Bhubaneswar only.

Signature of Tenderer or his  
Power of attorney holder with date,  
full name, designation and official seal

Senior Manager (Mechanical)  
OCCL, Regional Workshop,  
Jeypore, Koraput-764002 (Odisha)

Memo No: OCCL/RWS/845(WE) (2)

Dated.21.09.2018

Copy submitted to the Managing Director/ Director (Mechanical), OCC Ltd., Unit-VIII, Gopabandhu Nagar, Bhubaneswar-751012 (Odisha) for favour of kind information and necessary action.

Encl: Tender document

Senior Manager (Mechanical)

Memo No: OCCL/RWS/846(WE) (2)

Dated.21.09.2018

Copy submitted to the General Manager (Mechanical), H.O., OCC Ltd., Unit-VIII, Gopabandhu Nagar, Bhubaneswar-751012 / General Manager (Mechanical), Erection & Maintenance, OCC Ltd., Central Workshop Premises, Rasulgarh, Bhubaneswar-751010 (Odisha) for favour of information and necessary action.

Encl: Tender document

Senior Manager (Mechanical)

Memo No: OCCL/RWS/847(WE) (2)

Dated.21.09.2018

Copy along with soft copy forwarded to the Senior System Manager, System Business Division, OCC Ltd., Unit-VIII, Gopabandhu Nagar, Bhubaneswar-751012 for hosting of Tender Call Notice in Website of OCCL./ The Head State Portal, IT Canter, Secretariat, Department of Information & Technology, Bhubaneswar for hoisting in Govt. of Odisha Website.

.Encl: Soft copy of Tender in CD – 1 No.

Senior Manager (Mechanical)

Memo No: OCCL/RWS/848(3)

Dated.21.09.2018

Copy to Notice Board of Head Office, OCCL / Notice Board of Central Workshop, OCCL / Notice Board of Regional Workshop, OCCL.

Senior Manager (Mechanical)

**Particulars of Tender Document Issue**

ODISHA CONSTRUCTION CORPORATION LTD.  
(A Government of Odisha undertaking)  
REGIONAL WORKSHOP  
JEYPORE, KORAPUT – 764002 (ODISHA)

Date of issue of tender document. ....

Tender Call Notice No: OCCL/RWS/ 03 /2018-19 Dated. 21.09.2018

Issued in favour of :  
(Full name & address)

Telephone No. – Land line : Mobile :

Enlistment No. of Tenderer, if available :

Vide money receipt No: Dated:

Issued by  
(Stamp and signature of issuing officer)

Cost of tender paper (Non-refundable) = Rs .....+ GST 12% Rs. .... = Rs.....  
(Rupees.....) only by hand  
Rs..... + GST 12% Rs..... +Postal charges Rs.....  
= Rs. .... (Rupees .....)  
only by Registered Post / Speed Post

Signature of Tenderer or his  
Power of attorney holder with date,  
full name, designation and official seal

Senior Manager (Mechanical)  
OCCL, Regional Workshop,  
Jeypore,Koraput-764002 (Odisha)

**EMD and Document Deposit Particulars**

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

1. EMD amount Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) only vide A/C  
Payee D.D. / B.C./ Pay Order No. \_\_\_\_\_ Dated \_\_\_\_\_ issued by  
\_\_\_\_\_ Bank, \_\_\_\_\_ Branch.
  
2. GST Clearance 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 :

Full signature of "Tenderer" with date and seal

Signature of Tenderer or his  
Power of attorney holder with date,  
full name, designation and official seal

Senior Manager (Mechanical)  
OCCL, Regional Workshop,  
Jeypore, Koraput-764002 (Odisha)

**Undertaking of Tenderer**

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 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 Tenderer or his  
Power of attorney holder with date,  
full name, designation and official seal

Senior Manager (Mechanical)  
OCCL, Regional Workshop,  
Jeypore, Koraput-764002 (Odisha)

**ODISHA CONSTRUCTION CORPORATION LTD.**  
**(A Government of Odisha undertaking)**  
**REGIONAL WORKSHOP**  
**JEYPORE, KORAPUT – 764002 (ODISHA)**

**TERMS AND CONDITIONS OF TENDER FOR**

Name of Work: “Design, Supply, Transportation, Erection , Testing and Commissioning of 10 Ton Capacity Monorail Crane for operation of stoplogs for Upper Kolab Project, Kolab Nagar, Dist: Koraput, Odisha”.

1. Reputed Manufacturers / Dealers/ Reputed Organizations having supplied and executed similar works of similar magnitude and satisfactorily accepted by the clients shall be eligible to participate in the tender. The copies of purchase orders, credentials certificates etc. in support of supply and execution of similar Crane and satisfactory completion thereof shall be furnished along with the tender.
2. The tenderer should submit Earnest Money Deposit (EMD) @ 1(One)% of the total quoted value along with the tender in shape of account payee demand draft drawn in favour of “Odisha Construction Corporation Ltd -Project Account” on any Nationalised Bank/ Scheduled bank payable at Jeypore. The tenders received without EMD shall be out rightly rejected. EMD of the unsuccessful tenderers shall be released only after finalization of the tender.
3. Tender should be submitted sealed cover subscribing in bold letters as “**DESIGN, SUPPLY, TRANSPORTATION, ERECTION AND COMMISSIONING OF 10T CAPACITY MONORAIL CRANE FOR OPERATION OF STOPLOGS FOR UPPER KOLAB PROJECT**” and also date of opening of tender. The name and address of the tenderer should not be written on outer cover. Only the name and address of the purchaser should be written on the outer cover.
4. i) The envelope should contain the following:
  - a. EMD of 1(One) % of quoted value as per clause- 2 above.
  - b. Attested copy of valid GST registration certificate. The tenderer shall mention his GST Regn. No. in his tender clearly without which the tender shall not be taken into consideration.
  - c. Attested copy of PAN Card.
  - d. Attested copies of purchase orders, work orders, credentials certificates in support of similar supply and satisfactory execution of the similar work on turnkey basis.
  - e. Complete tender document in original including terms and conditions, technical specifications & price schedule in original duly signed on each page by the tenderer or his/their power of attorney holder. In case of power of attorney holder, an attested copy of power of attorney should be furnished.
5. The tender document can be purchased by the interested Manufacturers/Dealers / Reputed Organizations by hand from the office of the undersigned from **22.09.2018 to 03.10.2018** (up to **2.00 PM**) during office hours on deposit of cost of tender document i.e. **Rs 6000/-** plus GST @ 12% amounting to **Rs 6720/-** in cash or in shape of A/c. payee demand draft drawn in favour of “Odisha Construction Corporation Limited-Project Account “on any Nationalized Bank/Scheduled Bank payable at Jeypore (non-refundable) and production of attested copies of the following documents and verification thereof by the undersigned. The tender document can also be obtained by the interested reputed Manufacturers /Dealers/ Reputed Organizations by registered post/speed post/courier on sending the cost of tender document i.e. **Rs 6000/-** plus GST @ 12% plus postage charges of **Rs 100/-** amounting to **Rs 6820/-** in total in shape of A/c. payee demand draft drawn in favour of “Odisha Construction Corporation Limited - Project Account” on any Nationalized Bank/Scheduled Bank payable at Jeypore (non-refundable) and sending attested copies of the following documents and verification thereof by the undersigned.

Signature of Tenderer or his  
Power of attorney holder with date,  
full name, designation and official seal

Senior Manager (Mechanical)  
OCCL, Regional Workshop,  
Jeypore,Koraput-764002 (Odisha)



- a. Valid GST registration Certificate.
  - b. PAN Card
  - c. Credentials in support of supply of similar items of similar magnitude and satisfactory performance thereof.
  - d. Authorised dealership / stockiest certificate, if not a manufacturer
6. The tender document can also be downloaded from our Website [www.odishaconstruction.com](http://www.odishaconstruction.com) or Govt. of Odisha website [www.odishagov.nic.in](http://www.odishagov.nic.in) to submit the tender, however the cost of tender document i.e. Rs **6000/-** plus GST @ 12% amounting to **Rs 6720/-** in cash or in shape of A/c. payee demand draft as stated above in favour of “Odisha Construction Corporation Limited - Project Account” on any Nationalized Bank/ Scheduled Bank payable at Bhubaneswar (non-refundable) along with attested photo copies of all the above documents should be submitted, while submitting tender, otherwise, the tender shall be cancelled. OCCL shall not be responsible for missing of any page while downloading. If there shall be a public holiday on the last date of sale of tender document and receipt & opening of the tender as specified above, the tender document shall be sold and tender shall be received & opened on the next working day at the same time and venue.
  7. The tenders shall be received up to **3.00 PM** on **03.10.2018** and shall be opened in the office of the undersigned on the same day at **4.00 PM** in presence of the tenderers or their authorized representatives, if they so desire.
  8. The undersigned shall not be responsible for any kind of delay in receipt of tenders by the postal/courier authorities.
  9. The monorail cranes and accessories should strictly conform to relevant I.S: specifications as per technical specification enclosed and make of the different components should be mentioned in offer. The tenderer shall furnish technical specification and clearance diagram along with the offer.
  10. Manufacturer’s test certificate for independent components shall be provided by the successful tenderer along with supply. Inspection and testing of the components shall be made by the purchaser’s representative before dispatch and the materials shall be dispatched after getting written confirmation of purchaser.
  11. Pre-delivery inspection (P.D.I) before dispatch of the equipments shall be made at the manufacturer’s workshop by the authorized representative of the purchaser for which the manufacturer should intimate in writing for P.D.I. 10 days in advance regarding readiness for P.D.I.
  12. The Monorail Crane and its accessories shall be guaranteed against any defect/ bad works for a period of 18 months from the date of erection, testing & commissioning at workshop. Guarantee certificate in this regard shall accompany with supply. In case of any defects found within the guarantee period, the same shall have to be replaced free of cost by the supplier.
  13. The successful tenderer shall have to furnish a Performance Bank Guarantee (B.G) as ISD for 10% value of the Agreement at the time of drawl of Agreement, failing which the EMD shall be forfeited. The Performance Bank Guarantee should be valid for a period of 18 months from the date of commencement of work and shall be released after completion of the Guarantee Period.

Signature of Tenderer or his  
Power of attorney holder with date,  
full name, designation and official seal

Senior Manager (Mechanical)  
OCCL, Regional Workshop,  
Jeypore, Koraput-764002 (Odisha)

14. The purchaser reserves the right to forfeit and encash the Performance Bank Guarantee in full in case any item is found defective and not replaced by the tenderer/supplier within a suitable time fixed by the purchaser.
15. The tenderer shall visit the site and quote their rates for complete execution of work including supply F.O.R. at Upper Kolab Project, Kolab Nagar, Dist: Koraput, Odisha indicating separately the basic Price, Packing, Forwarding, Transportation, Erection, Testing & Commissioning, Transit Insurance, Handling Charges, GST etc. of the monorail crane at work site strictly in the price schedule format in original. The tenders shall not be considered if the rates are quoted for supply items only. The tenderer who does not confirm to supply and take up the whole work on complete turnkey basis at site, need not quote.
16. The tenderer should quote appropriate taxes with the offer.
17. The rates and amounts should be quoted both in figures and words in the price schedule format. Any correction or overwriting in the specification and price schedule should be duly certified by the tenderer or his power of attorney holder. In case of any mismatch in figures and words, the rates in words shall be considered. In case of any mismatch in rates and amount, the rate shall be considered.
18. 90% of the Agreement Value towards cost of the supply and complete execution of work shall be made within 30 (thirty) days after receipt, verification and acceptance of the complete commissioning of equipments at worksite along with Bill, Test Certificate, Guarantee Certificate and other documents. Balance 10% of work cost shall be released within 60 (sixty) days against receipt of Performance Bank Guarantee for 10% of the total basic cost valid for a period of 18 months from the date of supply. In absence of Bank Guarantee, balance 10% of Agreement Value shall be released after 18 months of erection and commissioning of the E.O.T. cranes at site.
19. Price escalation shall not be allowed under any circumstances. The quoted rates should be firm till execution of the entire work.
20. The validity of the offer should be for a period of 120 days from the date of opening of the bid.
21. The Monorail Crane with accessories completed in every respect is to be supplied and erected by the successful tenderer within 30 days from the date of issue of the purchase order, failing which the order is liable for cancellation without assigning any reason thereof by the purchaser. In case of cancellation of the order the EMD shall be forfeited.
22. Taxes as applicable shall be deducted from Bills.
23. Conditional offers with deviations shall not be accepted. Those, who do not agree to the terms and conditions regarding payments, delivery and others, need not quote.
24. The authority reserves the right to accept/reject any or all tenders without assigning any reason thereof.
25. Tender through fax/telex/telegram/e-mail shall not be accepted.
26. 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  
Power of attorney holder with date,  
full name, designation and official seal

Senior Manager (Mechanical)  
OCCL, Regional Workshop,  
Jeypore, Koraput-764002 (Odisha)

**TECHNICAL SPECIFICATIONS FOR  
10T CAPACITY MONORAIL CRANE FOR OPERATION OF  
STOPLOGS FOR UPPER KOLAB PROJECT**

\*\*\*\*\*

a) **GENERAL AND SCOPE OF WORK :**

i) Supply of Electrically Operated Monorail Hoist Crane of 10 Ton capacity complete in all respect including transportation, erection , testing, commissioning and all electrical panels etc that would be required for satisfactory operation and handling Stoplogs of size 5800x1450mm(Seven Segments) for performing duties. **The lifting hook of the Monorail shall be manufactured suitably for existing Lifting Beam.**

ii) All electrical connections and arrangement etc. i.e. from three phase power supply is under this scope of invitation. The three phase power supply shall be provided nearby the Monorail Hoist.

The Monorail Crane shall be operated on existing steel structure for the entire length of travel for the crane. The Manufacturer/ Organization shall visit the site and quote the rates on turnkey basis for Design, Supply, Transportation, Erection, Testing and Commissioning at site of monorail crane hoist and accessories. The crane shall be designed to raise and lower the load for the total lift specified.

**MONORAIL HOIST DATA**

The following data of Hoist is as per letter no.8552 dated: 30.08.2018 of **Senior Manager (Mech), Mechanical Designs, Head office OCCL.**

Hoist Capacity	-	10 T.
Max. Lift of Crane	-	33 Mtrs.
Lifting Speed	-	1.5 m/Min.
Travel Speed	-	3.0 m/Min.
Design Standard	-	IS:3938.

b) **REQUIREMENTS:**

The Manufacturer/ Dealers/ Reputed Organizations shall quote for the Monorail Crane with pendent push button arrangement must be suitable to move on rail girder for the required length of travel as per relevant Indian Standard Specification or equivalent or equivalent International Standard.

The Monorail Crane shall be out door duty type. Hence necessary protection shall be provided for Motor, Brakes, Limit Switches, and Control Panels etc. against outside weather, rain etc. and such conditions as they have to work in.

The gear train and control gears shall be attached to side plates and shall be used in a fiber glass or any other suitable material covers. The runner's wheels shall be of cast iron or cast steel mounted on ball bearings. The hoist brake shall be of Electro-magnetic type designed and built to arrest and hold safely the full load capacity of the hoist.

All gears shall be of machine cut spur type made from high grade cast steel and designed as per IS:4460. The gear shall run in a totally enclosed oil bath, gear box giving positive and constant splash lubrication to all gear parts and bearings. The gears should be easily accessible by removing few bolts from a light but strong gear cover.

The diameter of rope drum shall not be less than 20 times the diameter of rope and the length of drum shall be suitable for total lift specified. The length of rope drum shall be such that each lead of rope has minimum of two full turns on the drum when the hook is in the lowest position and one spare groove when the hook is in the highest position. Normal breaking strength shall be allowed for the selection of rope size with appropriate safety factor of not less than six for normal operating condition. The rope fall / arrangements shall be such that rope shall not bundle up together causing rope jam when the hook at it's lowest point with or without load. The wire rope shall conform to IS: 2266.

Signature of Tenderer or his  
Power of attorney holder with date,  
full name, designation and official seal

Senior Manager (Mechanical)  
OCCL, Regional Workshop,  
Jeypore, Koraput-764002 (Odisha)

c) **LIMIT SWITCH:**

Suitable limit switches shall be provided to limit each operation of the crane to the predetermined zone of operation. The limit switches shall be totally enclosed, quick break, automatic reset type and suitable for satisfactory operation under humid climatic conditions.

d) **SHEAVES AND BLOCK:**

Bottom blocks shall also be of suitable type. The sheaves in block shall be totally enclosed with proper cut to guide the ropes. These sheaves shall be supported on suitable heavy duty bearings. The load hook shall be of forged high tensile steel supported on thrust bearings so that the hook may freely swing. The hook shall be designed as per IS:3815 with positive locking device to prevent accidental unhooking. The locking device shall be such that this shall allow entry of a 100mm. diameter lifting pin and also lock effectively.

e) **CONTROL EQUIPMENT:**

Control shall be heavy duty magnetic reversible controller or any other such suitable and reliable control arrangement.

The Manufacturer / Dealers/ Organizations shall be responsible for the supply of all accessories and control necessary for the satisfactory operation of the crane. The power to the crab shall be supplied through flexible trailer cables which shall be supported in loops from bearing mounted trolleys running along a track parallel to the crab travel. The movement of the cable supporting trolleys shall be made independent of the cable by means of inter-linked chain or wire rope. The tender shall include the complete power supply system to the crane including 'T' track for the entire length of the travel. Only copper cables shall be used in the entire equipment. All cable shall be protected against mechanical damage wherever necessary. The connection / support of the cable supporting 'T' track with the monorail girder shall be made by the purchaser as per drawing furnished by the supplier. The pendant switch shall be capable of withstanding rough handling without being damaged and the covers shall be supported independent of the electric cable by means of chain or wire rope. The manufacturer shall be mechanically or electrically interlocked. Push button control voltage shall be not more than 110 volts for AC. The push bottoms shall be spring loaded. The push button station shall be clearly marked for function of each button i.e. "OFF / ON", Hoisting – "UP", "DOWN .", Crab Travel- "LEFT", "RIGHT". Indicating lamps shall also be provided to indicate operation of each push button. The pendant unit shall be fully protected from climatic weather condition.

f) **MONORAIL:**

The Monorail Girder for crane is ISMB-450 (150x450). The detail drawing shall be submitted at the time of final specification. The Tenderer has to co-ordinate with purchaser before manufacture of the crane for its suitability.

g) **ELECTRICAL EQUIPMENT:**

All electrical items such Motors, Conductors, Panel Board, Switches shall be as per relevant Indian Standard specifications.

The hoist and crane travel motors shall be designed as per site requirement and for outdoor climatic conditions and from reputed manufacturers such as Siemens/G.E.C./ N.G.E.F./ Crompton Greaves / Kirloskar. The rope size and no. of falls etc. shall be designed and supplied as per relevant IS Code 3038.

Signature of Tenderer or his  
Power of attorney holder with date,  
full name, designation and official seal

Senior Manager (Mechanical)  
OCCL, Regional Workshop,  
Jeypore,Koraput-764002 (Odisha)

h) **BRAKE:**

Electro-Mechanical brakes shall be provided for both Hoist and Crane Travel motion. The brake shall apply automatically when the power supply fails or from the respective motors and shall be electrically released when the current is applied to the motor.

The brake shall be effective in both direction of motion and shall be capable of overcoming at least 150% of the full load torque exerted by the motor. The brake shall be continuous rated.

i) **ACCESSORIES:**

All works, materials and service nor expressly called for in these specifications but which are necessary to complete and proper operation of the crane shall be performed and furnished by the manufacturer at no extra cost to the purchaser.

j) **TESTS:**

The crane shall be tested in accordance with IS: 3938 at the manufacturer's premises at his cost and the test certificates shall be furnished by the manufacturer. The hoist shall be tested with 125% safe working load and shall be capable of lifting the test load from mid air. The tests shall be conducted in presence of the representative of the purchaser.

l) **OTHER REQUIREMENTS:**

The manufacturer/ organisations shall furnish technical specifications and drawings indicating overall dimensions and operating parameters of the crane, detail dimension of the bottom sheave block & hook and particulars of the major components such as Rope, Motor, Brake etc. supported by design calculations along with the offer. The manufacturer/ organization shall also furnish the list of clients with details of similar hoist supplied during last ten years along with the offer. For any more clarification, the manufacturer may contact the undersigned before quoting their offer.

Signature of Tenderer or his  
Power of attorney holder with date,  
full name, designation and official seal

Senior Manager (Mechanical)  
OCCL, Regional Workshop,  
Jeypore, Koraput-764002 (Odisha)

**ODISHA CONSTRUCTION CORPORATION LTD.  
(A Government of Odisha undertaking)  
REGIONAL WORKSHOP  
JEYPORE, KORAPUT – 764002 (ODISHA)**

**TENDER CALL NOTICE NO.: OCCL/RWS/03/2018-19 DATED.21.09.2018**

BILL OF QUANTITIES PRICE SCHEDULE

NAME OF WORK: "DESIGN, SUPPLY, TRANSPORTATION, ERECTION , TESTING AND COMMISSIONING OF 10 TON CAPACITY MONORAIL CRANE FOR OPERATION OF STOPLOGS FOR UPPER KOLAB PROJECT, KOLAB NAGAR, DIST: KORAPUT, ODISHA".

Sl. No	Description of Work	Quantity	RATE PER EACH SET IN RUPEES			TOTAL AMOUNT IN RUPEES	
			Basic price per set	Packing, forwarding, transportation, Transit Insurance & handling charges	GST as applicable	In figures	In words
1	Design, Supply, Transportation, Erection, Testing and Commissioning of 10T capacity Monorail Crane Hoist and accessories with suitable electrical panels, wiring, remote arrangement etc. at work site to operate stoplogs on existing steel structure for Upper Kolab Project Damsite, Kolab Nagar, Dist: Koraput as per details technical specifications, terms and conditions and as per direction of Engineer-in-Charge.	01 set (One)					

(The rate quoted shall be inclusive of GST)

Signature of Tenderer or his  
Power of attorney holder with date,  
full name, designation and official seal

Senior Manager (Mechanical)  
OCCL, Regional Workshop,  
Jeypore,Koraput-764002 (Odisha)