

# **PARADIP PORT TRUST**

**BUDGETARY OFFER**

**FOR**

**“Replacement of damaged Structural of Equipment,  
Conveyors, Discharge & Transfer Chutes and Junction  
Houses of Shipping Section at IOHP”**

**Submission on or before 12.12.2017**

**The Executive Engineer (Mech.)  
Iron Ore Handling Plant  
Paaradip Port Trust  
Paradip  
Jagatsinghpur  
Odisha  
Contact No. 9437551451  
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## **REQUEST FOR BUDGETARY OFFER**

### **(A) GENERAL INFORMATIONS**

<b>Sl. No.</b>	<b>Item</b>	<b>Details</b>
1.	Name of Work	Replacement of damaged Structural of Equipment, Conveyors, Discharge & Transfer Chutes and Junction Houses of Shipping Section at IOHP.
2.	Department/Organization	ELECTRICAL & MECHANICAL DEPARTMENT / PARADIP PORT TRUST
3.	Executive Division	Iron Ore Handling Plant
4.	Officer Inviting the Bid	Executive Engineer
5.	Immediate Next Authority	Superintending Engineer
6.	Sanctioning Authority	Dy. Chairman, PPT
7.	Executing Authority	Executive Engineer

### **(B) OTHER INFORMATION**

<b>Sl. No.</b>	<b>Item</b>	<b>Date</b>	<b>Time</b>
1	Publication date	27.11.2017	17:00 Hrs.
2.a)	Document download start date	27.11.2017	17:00 Hrs.
b)	Document download end date	12.12.2017	16:00 Hrs.
3.a)	Start date for seeking Clarification on-line	27.11.2017	17:00 Hrs.
b)	Last date for seeking Clarification on-line	04.12.2017	10:00 Hrs.
4.	Date of uploading response to Clarifications sought	08.12.2017	17:00 Hrs.
5.	Offer Submission end date	12.12.2017	16:00 Hrs.
6.	Bid Validity period	120 days	
7.	Currency of Contract	Indian Rupee	
8.	Language of Contract	English	

# SCOPE OF WORK

Name of the Work: **Replacement of damaged Structural of Equipment, Conveyors, Discharge & Transfer Chutes and Junction Houses of Shipping Section at IOHP.**

The replacement of damaged Structural of Equipment, Conveyors, Discharge & Transfer Chutes and Junction Houses of Receiving Section at IOHP involves the followings:

1. The damaged structural to be replaced shall be jointly inspected by the Contractor and the Engineer-in-charge. Basing on the joint inspection, the work shall be executed.
2. Different section of steel structural to be used in the newly fabricated girders, column, tower, conveyor, chute shall be identical with the existing structural. Broadly different type of steel materials such as ISMB 450 x 150, ISMB 400 x 140, ISMB 250 X 125, ISMC 250 X 80, ISMC 150 X 75, ISA 130 x 130 x 12, ISA 100X100X12, ISA 90X90X12, ISA 75X75X10, ISA 65X65X8, ISA 40x40x6, Flat 25X6, ISPL 25 mm thick, ISPL 20 mm thick, ISPL 16 mm thick, ISPL 12 mm thick, ISPL 10 mm thick, ISPL 8 mm thick (chequered), ISPL 06 mm thick, GI pipe 1.5" dia and GI pipe 1" dia shall be utilized for execution of the work.
3. The steel materials are to be cut and fabricated as per existing structural and required drill holes are to be made and required size & grade HT bolts, nuts and washer shall be utilized for erection of structurals.
4. All the damaged grouting bolts are to be replaced by new bolts.
5. All the paint and painting materials, rubber liners, GI gratings, manpower, T & P and consumables such as DA, Oxygen, Electrode, HT bolt & nut, GI bolt & nut, washer, zinc rod, scaffolding etc. required for satisfactory execution of the work shall be supplied by the Contractor. **The required steel materials for execution of the work shall be supplied by Paradip Port Trust.** However, the required steel materials are to be received by the Contractor from Central Store, Material Management Division, Paradip Port Trust (located near Paradip Bus stand) and the Contractor shall make his own arrangement for transportation of steel materials to Iron Ore Handling Plant site at his cost
7. All the welding is to be done in two layers continuously both inside and outside by using suitable electrodes of reputed make such as ESSAB, L & T, Modi, Advani.
8. **Painting of Structurals:**  
(a) Painting of fabricated structural excluding Deck Plate and Floor plate.

Painting of newly fabricated structural excluding deck plates of Conveyors and floor plate of Junction House shall be carried out as per the specification given below:

- Proper surface preparation by sand / grit blasting.
- Application of hot zinc spray – Minimum 120 microns DFT.
- Application of quick drying surface tolerant self priming epoxy coating to achieve a minimum dry film thickness 100 µm.
- Application two components of high build micaceous iron oxide coating to achieve a minimum dry film thickness 100 µm.
- Application one coat of intermediate epoxy coating to achieve a minimum dry film thickness 100 µm.
- Application one coat modified polyurethane coating to achieve a minimum dry film thickness 50 µm. Total paint thickness shall be minimum 350 µm.

(b) Newly fabricated deck plate, floor plate and existing structural.

- (i) Surface preparation newly fabricated deck plate of conveyors, floor plate of Junction houses shall be done by sand/grit blasting.
- (ii) Surface preparation of existing structural shall be done manually by cheeping and cleaning.
- (iii) After surface preparation, painting of newly fabricated deck plate of conveyors, floor plate of Junction houses and existing structural shall be carried out as per the specification given below:
  - Application of quick drying surface tolerant self priming epoxy coating to achieve a minimum dry film thickness 100 µm.
  - Application two components of high build micaceous iron oxide coating to achieve a minimum dry film thickness 100 µm.
  - Application one coat of intermediate epoxy coating to achieve a minimum dry film thickness 100 µm.
  - Application one coat modified polyurethane coating to achieve a minimum dry film thickness 50 µm. Total paint thickness shall be minimum 350 µm.

(c) Spray Painting

Compressed Air Spray painting shall be carried out for all the fabricated structurals.

(d) The paints used shall be of reputed make such as Asian/ Berger/ Shalimar/ J&N / GROWEL.

9. Prior to dismantling of damaged structural, temporary support is to be provided. Dismantling of existing damaged structural is to be done by gas cutting/unbolting after making all safety arrangements to the full satisfaction of the E.IC.
10. All the fabricated structurals shall be erected one by one and necessary bolting & welding shall be done with existing structurals. The damaged grouting bolts are to be replaced by welding new bolts/studs by removing the damaged portion. Paints to be applied at welding areas after erection of structurals.
11. Rollers and roller frames (both carrying & return) in the conveyors are to be retrieved during dismantling without any damage. The retrieved rollers and roller frames are to be re-fitted by using new GI bolts, nuts and washer which are to be supplied by the Contractor.
12. 950 mm x 650 mm hot dip galvanized gratings made out of 25 mm flat are to be provided on all platforms and walk ways and 750 mm x 250 mm hot dip galvanized gratings made out of 25 mm flat are to be provided on all Stair case.
13. Walk ways and plat forms are to be provided with GI pipe (1"/1.5") hand railings (2 row) for easy maintenance of conveyor and from safety point of view.
14. The discharge and transfer chute must be fabricated and erected in such a manner that no blockage occurs during operation and cargo flows freely without any accumulation.
15. Non stick rubber liner of min. thickness 80 mm shall be provided in all the transfer and discharge chute.
16. Skirt along with liners to be provided below the transfer chute to avoid spillage of ore.
17. For dismantling, tonnage shall be determined by taking the weighment of the dismantled structurals and for fabrication & erection, tonnage shall be determined by taking the sectional measurement of the new steel structurals.

## **Commercial Terms & Condition:**

### **1) Security Deposit:**

A sum of 10% of accepted value of the tender shall be deposited by the successful bidder (Contractor) as Security Deposit (SD). This will be deposited initially 1% value of the contract as initial security deposit (ISD) in shape of a Bank Guarantee or Demand Draft (DD) / Banker's Cheque drawn in favour of FA&CAO, Paradip Port Trust (DD/ Banker's cheque shall be payable at Paradip) within 15 days of issue of Letter of Intent (LOI). After deducting the EMD and ISD from the stipulated security deposit, the balance amount will be recovered in instalment through deduction at the rate of 10% of the value of each running account bill subject to attaining the required amount by the last running bill. In case of exemption of EMD, the successful bidder has to deposit initially 3% of the contract value as ISD instead of 1% of contract value.

The Contractor may submit Bank Guarantee for the balance amount after deducting the EMD and ISD from the stipulated security deposit in which case there will be no deduction from the running bills towards security deposit.

EMD of the successful bidder may be refunded to the bidder after receiving an equivalent amount of Bank Guarantee only after issue of work order and signing of agreement.

The Contractor may also submit Bank Guarantee for a sum of 10% of accepted value of tender as Security Deposit (SD) within 15 days of issue of Letter of Intent (LOI) in that case (i) deposit of 1% ISD will not be required; (ii) there will be no deduction from the running bills towards security deposit; and (iii) EMD of the successful bidder will be refunded to the bidder after issue of work order and signing of agreement.

The security deposits shall be returned to the Contractor within 45 days of successful execution and acceptance of the work.

### **2) PERFORMANCE SECURITY DEPOSIT (PSD):**

The Contractor shall furnish PSD equivalent to 5% of the contract price in shape of a Bank Guarantee as per Appendix-5 or Demand Draft (DD) / Banker's Cheque drawn in favour of FA&CAO, Paradip Port Trust (DD/ Banker's cheque shall be payable at Paradip) on or before date of completion of work. The PSD shall be retained by Paradip Port Trust till successful completion of the warranty period. The PSD shall be released within 60 days of successful completion of the warranty period. The BG shall be valid till 60 days after completion of warranty period. In case the Contractor fails to furnish PSD on or before scheduled date of completion of work, the PSD will be adjusted from the Security deposit and the balance amount of security deposit will be returned to the Contractor.

### **3) Bid Prices:**

The Bidder shall indicate on the prescribed Bill of Quantity, the landed prices of all the goods and services at Paradip Port Trust. It must include all incidentals like insurance, transportation, packing & forwarding, etc. (excluding GST) required for execution of the contract in all respect. Variation in taxes due to change in Govt. Regulations only

shall be considered, provided such change has taken place within the period from 28 days prior to the last date of bid submission to the original completion date of the Contract. No price escalation shall be admissible for this contract. **The GST percentage may be mentioned against each item of Bill of Quantity (BOQ).**

**4) Date of Commencement and Completion of Work:**

The Contractor shall commence the work within 07 days of issue of Work Order. The work shall be completed in all respect within 1 (one) year and 3 (Three) months from the date of commencement of work. The zinc spray and painting works shall be carried out during day time preferably from 8.00 AM to 5.00 PM in dry weather condition. In case of rain and cloudy weather, painting works will not be allowed as the quality of painting may not be good and such non-working period due to rain and cloudy weather shall be considered as extremely adverse climatic conditions for painting works.

**5) Shutdown:**

Iron Ore Handling Plant (IOHP) operates 24X7 hour basis for wagon tipping and ship loading operation. All efforts shall be made to execute the work without hampering Plant Operation. In case of requirement of shutdown for execution of any particular work, the Contractor shall submit advance intimation to the EIC seeking for bare minimum shutdown required with justification to execute the work. Accordingly, shutdown shall be provided considering the operational requirement. During shutdown period, works shall be carried out round the clock basis. Shutdown period for the subject work is limited to 40 days. The shutdown shall be provided in a phased manner (maximum 5 days at a stretch) only after the Contract is ready in all respect to take up dismantling and erection work with least interruption in Plant Operation. Delay in completion of the work beyond shutdown period shall attract a penalty @ Rs.20, 000/- (Rupees Twenty Thousand) only per day. The above cited penalty shall be imposed in addition to the Liquidated Damage (LD).

**6) Liquidated Damage (LD):**

- a. Unless otherwise specified, in case of delay in completing the work, liquidated damage shall be charged to the Contractor at the rate 0.25% of the contract price for a delay of one week or part thereof subject to a maximum of 5% of the contract price if the original execution period is 90 days or more. Where the original execution period is less than 90 days, liquidated damage shall be charged to the Contractor at the rate of 0.1% of the contract price for a delay of one day or part thereof subject to a maximum of 5% of the contract value. ***Where the Liquidated Damage amount exceeds the maximum limit, Paradip Port Trust reserves the right to :-***

i) Terminate the contract and / or ii) Forfeit the Initial Security Deposit (ISD).

- b. In case of "substantial completion" of a section of work and subsequent taking over by the purchaser within the scheduled date of completion, the liquidated damage shall be levied on the cost of balance portion of the works which are completed after the scheduled date. ***" Substantial Completion " of a section shall mean that the section has been completed, passed the tests, if any, to meet it's intended purpose and can be used by the purchaser for that purpose.***

**7) Warranty:**

The warranty period shall be valid up to 01 (one) year on the entire work along with supply items with effective from date of acceptance of the work. Any defect/damage noticed during the warranty period shall have to be made good by the contractor free of cost within one month from the date of notice failing which Paradip Port Trust may proceed to take such remedial action as may be necessary at the Contractor's risk and cost.

**8) Payment Terms:**

Payment will be made as follows:

- (i) 90 % payment will be released after successful completion of work and acceptance thereof by the Engineer-in-charge (EIC).
- (ii) Balance 10% of the total contract value shall be retained by PPT towards Performance Security Deposit. The Performance Security Deposit shall be released after successful completion of the warranty period only. The Contractor may furnish a Bank Guarantee of equal value valid till 60 days after expiry of the warranty period in which case the balance 10% money will be released for payment.
- (iii) For painting related works, payment shall be made on tonnage (MT) basis for the structural which are painted after hot zinc spray and for the rest payment shall be made on surface area (sq. m) basis.

- 9)** Any query in this regard may be raised to the following email- id prior to date **04.12.2017** (upto 1000 Hrs.) which will be clarified by uploading in the website for facilitating submission of a competitive budgetary offer.

**Note:** Budgetary offer shall be submitted to the following address either through email or by registered post.

The Executive Engineer (Mech.)  
Iron Ore Handling Plant  
Paaradip Port Trust  
Paradip  
Jagatsinghpur  
Odisha  
Contact No. 9437551451  
Email ID: dhiren\_sahoo2482@yahoo.com

# **BILL OF QUANTITY**

Name of the Work: **Replacement of damaged Structural of Equipment, Conveyors, Discharge & Transfer Chutes and Junction Houses of Shipping Section at IOHP.**

<b>Sl. No.</b>	<b>Description</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate (Rs.)</b>	<b>Amount (Rs.)</b>	<b>Remark</b>
1.	Dismantling of damaged structural with supply of all consumables, T&P and labour etc. as per scope of work.	MT	70			
2.	Fabrication and erection of structural with supply of all consumables, T&P and labour etc. <b>except steel materials</b> as per scope of work.	MT	70			
3.	Zinc spray and painting of fabricated structural (excluding deck plate and floor plate) with supply of all zinc rod, paint & painting materials, consumables, T&P and labour etc. as per scope of work.	MT	60			
4.	Painting of fabricated structural (deck plate and floor plate) and existing structural with supply of all paint & painting materials, consumables, T&P and labour etc. as per scope of work.	m <sup>2</sup>	1500			
5.	Fixing of rubber liners in the transfer & discharge chute and skirt of conveyors including supply of rubber liners, consumables, fasteners, labour and T& P as per Scope of Work.	m <sup>2</sup>	150			
6.	Laying of GI gratings in the walkway, Staircase and platforms with supply of all GI gratings, consumables, T&P and labour etc. as per scope of work.	m <sup>2</sup>	450			
				Total:		

**N.B.:** The rate indicated must be excluding GST and GST percentage may be mentioned as extra against each item.

Signature of the Firm