

**PRICE ADJUSTMENT FORMULA FOR MAIN SUPPLY FOR
DOUBLE GIRDER EOT CRANES UP TO 100T PACKAGE**

- (1) The price adjustment formula is defined for price components related to Main Supply package.
- (2) The amount of price adjustment shall be computed as under:

$$EC = EC1 - EC0$$

EC1 will be computed as follows:

$$EC1 = EC0 \times \{F + a \times (0.8 \times A_1 / A_0 + 0.2 \times B_1 / B_0) + L_b \times L_1 / L_0\}$$

Where

EC = Adjustment in Ex-Works supply Price.

EC1 = Adjusted Amount of Ex-Works supply Price.

EC0 = Ex-Works supply Price as per LOA/PO.

- (i) 'F' shall be fixed portion of the Ex-Works supply price and shall be considered as 0.15.
- (ii) 'a' shall be co-efficient which shall be considered as 0.55
- (iii) 'A₁' & 'A₀' shall be Wholesale Price Index for "MANUFACTURE OF BASIC METALS" as published in RBI Bulletin 21, Sl.no. 1.3.14, Base: 2011-12 = 100
- (iv) 'B₁' & 'B₀' shall be Wholesale Price Index for "MANUFACTURE OF ELECTRICAL EQUIPMENT" as published in RBI Bulletin-21, Sl.no. 1.3.17, Base: 2011-12 = 100
- (v) 'L_b' shall be co-efficient for labour component in the Ex-Works Component of the supply Price which shall be considered as 0.3.
- (vi) (v) 'L₁' & 'L₀' shall be consumer price index for industrial workers as published by RBI in RBI Bulletin 19, S.N. 1, Base year 2016=100 (Extract of website is pasted below for reference).

For the indices,

Subscript '0' refers to indices of Base Month for PVC which shall be taken as the month before the month of the price bid opening.

Subscript '1' refers to indices of the month of reckoning the varied price which shall be the month before the month in which dispatch is made.

The latest available indices are to be extrapolated to the above defined month wrt the base month.

Source link of RBI bulletin: https://rbi.org.in/Scripts/BS_ViewBulletin.aspx

Note:

- 1) The price adjustment i.e. either increase or decrease shall be applicable up to the contractual date of completion of supplies. Contractual delivery/dispatch date would mean the delivery/dispatch date mentioned in the order including amendments in delivery/dispatch date (if any). PVC will not be applicable for the period beyond the contractual delivery/dispatch date where delay is attributable to supplier.
- 2) The price adjustment shall be limited to (+) 20% of Ex-Works Price. There is no ceiling on negative PVC.

**PRICE ADJUSTMENT FORMULA FOR SERVICE PART (E & C AND HEALTHINESS CHECK) FOR
DOUBLE GIRDER EOT CRANES UP TO 100T PACAKGE**

(1) The price adjustment formula is defined for price components related to Service part as per price break-up furnished by the Contractor.

(2) The amount of price adjustment shall be computed as under:

$$ER = ER1 - ER0$$

ER1 will be computed as follows:

$$ER1 = ER0 \times \{F + Lb \times L_1 / L_0\}$$

Where

ER = Adjustment in Service part (E&C Prices, without taxes & duties).

ER1 = Adjusted Amount of Service part (E&C Prices, without taxes & duties).

ER0 = Service part (E&C Prices, without taxes & duties) as per LOA/PO.

(i) 'F' shall be fixed component and shall be considered as 0.15.

(ii) 'Lb' shall be co-efficient for labour component in the Ex-Works Component of the service part price which shall be considered as 0.85

(vii) 'L' shall be consumer price index for industrial workers as published by RBI in RBI Bulletin 19, S.N. 1, Base year 2016=100 (Extract of website is pasted below for reference).

(viii) For the indices,
Subscript '0' refers to indices of Base Month for PVC which shall be taken as the month before the month of the price bid opening.

Subscript '1' refers to indices of the month of reckoning the varied price which shall be the month before the month in which Service part (E&C) is carried out.

The latest available indices are to be extrapolated to the above defined month wrt the base month.

Source link of RBI bulletin: https://rbi.org.in/Scripts/BS_ViewBulletin.aspx

Note:

- 1) The price adjustment i.e. either increase or decrease shall be applicable up to the contractual date of completion of work. Contractual work completion date would mean the Completion date mentioned in the order including amendments in work completion date (if any). PVC will not be applicable for the period beyond the contractual work completion date where delay is attributable to supplier.
- 2) The price adjustment shall be limited to (+) 20% of Service part (E&C Prices, without taxes & duties). There is no ceiling on negative PVC.

**PRICE ADJUSTMENT FORMULA FOR MANDATORY SPARES PORTION
FOR DOUBLE GIRDER EOT CRANES UP TO 100T PACAKGE**

- (1) The price adjustment formula is defined for price components related to Mandatory Spares Portion.
- (2) The amount of price adjustment shall be computed as under:

$$EC = EC1 - EC0$$

EC1 will be computed as follows:

$$EC1 = EC0 \{F + a \times A1bco / A0bco + Lb \times L1 / L0\}$$

Where

EC = Adjustment in Ex-Works supply Price.
EC1 = Adjusted Amount of Ex-Works supply Price.
EC0 = Ex-Works supply Price as per LOA.

- (i) 'F' shall be fixed portion of the Ex-Works supply Price and shall be considered as 0.15.
- (ii) 'a' shall be co-efficient which shall be considered as 0.6
- (iii) A1bco & A0bco are as per "ALL COMMODITIES" as published in RBI Bulletin 21, Sl. No. 1 respectively, Base: 2011-12 = 100
- (iv) 'Lb' shall be co-efficient for labour component in the Ex-Works Component of the supply Price which shall be considered as 0.25
- (v) 'L' shall be consumer price index for industrial workers as published by RBI in RBI Bulletin 19, S.N. 1, Base year 2016=100 (Extract of website is pasted below for reference).
- (vi) For the indices,

Subscript '0' refers to indices of the Base Month which shall be taken as the month before the month of the price bid opening.


Subscript '1' refers to indices of the month before the month in which delivery is required to be made as per the Purchase Order or its amendments issued.

The latest available indices are to be extrapolated to the above defined month w.r.t. the base month.


Source link of RBI bulletin: https://rbi.org.in/Scripts/BS_ViewBulletin.aspx

Note:

- 1) The price adjustment i.e. either increase or decrease shall be applicable upto the contractual date of completion of supplies. Contractual delivery/dispatch date would mean the delivery/dispatch date mentioned in the order including amendments in delivery/dispatch date (if any). PVC will not be applicable for the period beyond the contractual delivery/dispatch date where delay is attributable to supplier.
- 2) The price adjustment shall be limited to (+) 20% of Ex-Works Mandatory Spares Price. There is no ceiling on negative PVC.

| | | | |
|--|---|---------------------|----------|
|  | PRE-QUALIFICATION REQUIREMENT PACKAGE: DG EOT CRANE (POWER HOUSE CRANE) PROJECT: CHANJU- III HEP (E&M) PROJECT (3X16 MW) | PE-PQ-541-501-A001A | |
| | | DATE | May 2026 |
| | | REV NO | 00 |

| | |
|--------------|---|
| 1.0 | Bidder shall have completed design, manufacturing, supply, installation and commissioning or design, manufacturing, supply, supervision of installation and commissioning of Electric Overhead Traveling (EOT) Crane in two (02) different plants with Main Hook Capacity not less than 50T, Auxiliary Hook Capacity not less than 5T and span 10 m or above with trouble free and satisfactory performance for a period of not less than two (02) years after commissioning as on the date of submission of bid. |
| 2.0 | Bidder has to submit following supporting documents meeting above mentioned prequalifying requirement: Copy of performance certificate from end user along with copy of related Purchase Orders (PO) or Letter of intent (LOI) or Letter of Award (LOA) or Work Order (WO) in support of PQR clause at S.N. 1.0 above. |
| NOTE: | |
| a | BHEL reserves the right to seek approved design documents from bidders to substantiate technical parameters as specified in clause 1 above. |
| b | Bidder to submit all supporting documents in Hindi / English. If documents submitted by bidder are in language other than Hindi / English, a translation of its pertinent passages in Hindi / English language in which case, for purpose of interpretation, the translation shall govern. The Hindi / English translation of the documents shall be carried out by professional translators and the translators shall certify that he is proficient in both languages in order to translate the document and that the translation is complete and accurate. Further, in case the supporting documents are issued outside India, same shall be authenticated by the Indian consulate located in the Country where the documents have been issued or the Embassy of that country in India. |
| c | In case the PO/ LOI /LOA/ WOs is more than ten (10) years old as on date of bid opening, minimum one (1) no. additional Purchase order (for similar jobs) shall be submitted which should not be more than ten (10) years old as on date of bid opening, for establishing continuity in business. |
| d | Notwithstanding anything stated above, BHEL/End customer / Owner reserves the right for physical assessment of the capabilities and capacity of the bidder to perform the contract including in-house load/overload testing of the crane before despatch, should the circumstances warrant such assessment in the overall interest of BHEL/ End customer/ Owner. (Bidder to furnish details as per Annexure-A) |
| e | Consideration of offer shall be subject to End customer/Owner's approval of bidder. |
| f | After satisfactory fulfilment of all the above criteria/ requirement, offer shall be considered for further evaluation as per NIT and all other terms of the tender. |
| g | The bidder shall meet PQR based on its own credentials. Bid from joint venture (JV) company / Consortium bid is not acceptable. |
| h | The bidders approved by HPPCL for EOT Cranes of CHANJU-III (3X16 MW) need not submit credentials as specified in this document. The list of approved suppliers by HPPCL is annexed at Annexure – 1. |

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|--|--|---------------------|----------|
|  | PRE-QUALIFICATION REQUIREMENT PACKAGE: DG EOT CRANE (POWER HOUSE CRANE) PROJECT: CHANJU- III HEP (E&M) PROJECT (3X16 MW) | PE-PQ-541-501-A001A | |
| | | DATE | May 2026 |
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Annexure-1 to Doc No.: PE-PQ- 541-501-A001A

The list of approved vendors by HPPCL for EOT Crane of CHANJU- III HEP (E&M) PROJECT (3X16 MW) are as follows:

| SI No. | Name of Vendor |
|--------|--------------------------------------|
| 1 | ALPHA SERVICE |
| 2 | CRANEX LIMITED |
| 3 | CENTURY CRANE ENGINEERING PVT LTD |
| 4 | HEAVY ENGINEERING CORPORATION LTD. |
| 5 | MANGLA HOISTS PVT LTD |
| 6 | REVA INDUSTRIES INDIA PVT LTD |
| 7 | SMACO ENGINEERING PVT LTD |
| 8 | TECHNO INDUSTRIES HANDLERS PVT LTD |
| 9 | UNIQUE INDUSTRIAL HANDLERS PVT. LTD. |

CORPORATE QUALITY ASSURANCE

SUB-VENDOR QUESTIONNAIRE

| | | |
|-------------|---|--|
| i. | Item/Scope of Sub-contracting | |
| ii. | Address of the registered office | Details of Contact Person (Name, Designation, Mobile, Email) |
| iii. | Name and Address of the proposed Sub-vendor's works where item is being manufactured | Details of Contact Person: (Name, Designation, Mobile, Email) |
| iv. | Annual Production Capacity for proposed item/scope of sub-contracting | |
| v. | Annual production for last 3 years for proposed item/scope of sub-contracting | |
| vi. | Details of proposed works | |
| 1. | Year of establishment of present works | |
| 2. | Year of commencement of manufacturing at above works | |
| 3. | Details of change in Works address in past (if any) | |
| 4. | Total Area | |
| | Covered Area | |
| 5. | Factory Registration Certificate | Details attached at Annexure – F2.1 |
| 6. | Design/ Research & development set-up (No. of manpower, their qualification, machines & tools employed etc.) | Applicable / Not applicable if manufacturing is as per Main Contractor/purchaser design Details attached at Annexure – F2.2 (if applicable) |
| 7. | Overall organization Chart with Manpower Details (Design/Manufacturing/Quality etc)- | Details attached at Annexure – F2.3 |
| 8. | After sales service set up in India, in case of foreign sub-vendor (Location, Contact Person, Contact details etc.) | Applicable / Not applicable Details attached at Annexure – F2.4 |
| 9. | Manufacturing process execution plan with flow chart indicating various stages of manufacturing from raw material to finished product including outsourced process, if any | Details attached at Annexure – F2.5 |
| 10. | Sources of Raw Material/Major Bought Out Item | Details attached at Annexure – F2.6 |
| 11. | Quality Control exercised during receipt of raw material/BOI, in-process, Final Testing, packing | Details attached at Annexure – F2.7 |
| 12. | Manufacturing facilities | Details attached at Annexure – F2.8 |

**CORPORATE QUALITY ASSURANCE
SUB-VENDOR QUESTIONNAIRE**

| | | | | | |
|-----------------------------|--|---|---|--------------------------|-----------------------|
| | <i>(List of machines, special process facilities, material handling etc.)</i> | | | | |
| 13. | Testing facilities <i>(Refer Annexure-B)</i> | | <i>Details attached at Annexure – F2.9</i> | | |
| 14. | If manufacturing process involves fabrication then- | | <i>Applicable / Not applicable</i> | | |
| | <i>List of qualified Welders</i> | | <i>Details attached at Annexure – F2.10</i> | | |
| | <i>List of qualified NDT personnel with area of specialization</i> | | <i>(if applicable)</i> | | |
| 15. | List of out-sourced manufacturing processes with Sub-Vendors' names & addresses | | <i>Applicable / Not applicable</i> <i>Details attached at Annexure. –F2.11</i> <i>(if applicable)</i> | | |
| 16. | Supply reference list including recent supplies | | <i>Details attached at Annexure – F2.12</i> <i>(as per format given below)</i> | | |
| Project/ package | Customer Name | Supplied Item (Type/Rating/Model /Capacity/Size etc) | PO ref no/date | Supplied Quantity | Date of Supply |
| 17. | Product satisfactory performance feedback <i>letter/certificates/End User Feedback</i> | | <i>Attached at annexure - F2.13</i> | | |
| 18. | Summary of Type Test Report (Type Test Details, Report No, Agency, Date of testing) for the proposed product <i>(similar or higher rating)</i> Note:- Reports need not to be submitted | | <i>Applicable / Not applicable</i> <i>Details attached at Annexure – F2.14</i> <i>(if applicable)</i> | | |
| 19. | Statutory / mandatory certification for the proposed product | | <i>Applicable / Not applicable</i> <i>Details attached at Annexure – F2.15</i> <i>(if applicable)</i> | | |
| 20. | Copy of ISO 9001 certificate <i>(if available)</i> | | <i>Attached at Annexure – F2.16</i> | | |
| 21. | Product technical catalogues for proposed item (if available) | | <i>Details attached at Annexure – F2.17</i> | | |
| | | | | | |
| Name: | | Desig: | | Sign: | |
| | | | | | Date: |

Company's Seal/Stamp:-

Details of Testing facility of Work/s

Annexure -B

| PACKAGE | | DOUBLE GIRDER EOT CRANES UP TO 100T | | |
|--|---|--|----------------------|---|
| Bidder name | | | | |
| Bidder works address | | | | |
| S. NO. | FACILITY | DETAILS REQUIRED | DATA TO BE FURNISHED | REMARKS |
| 1 a) | Handling facilities in the test bay/ shop | Number & capacity of cranes available | | |
| 1 b) | | Maximum capacity of load that can be handled with shed/testing bay cranes handle (individually or in tandem) | | Layout drawing of the testing / bay shed to be furnished. |
| 1 c) | | Clear height from floor level to the Hook level of the crane of testing bay/ shed | | |
| 2 a) | Stand/frame for supporting the crane bridge girders during load/ overload testing of crane at works | Number of stands available | | |
| 2 b) | | Load bearing capacity of each stand | | Documentary proof i.e previous load testing report of similar capacity and span or structural calculations for justifying the load bearing capacity of the crane. |
| 2 c) | | Height of stand | | |
| 3 a) | Load Pit | Dimensions | | Pit drawing/photograph to be furnished. |
| 3 b) | | Maximum capacity of the load that can be accommodated in load pit | | Calculations / drawing to be furnished for justification of maximum load claimed to be accommodated in the available test pit dimensions. |
| 4 a) | Calibrated Dead Load | Maximum dead load (calibrated) along with cradle available | | In case of unavailability of sufficient dead load, whether supplier makes any alternate arrangement i.e type of dead load, availability of suitable capacity load cells with display etc. |
| 4 b) | | Dimensions | | Dimensions of individual load block, as available, to be furnished. |
| Note: Details of testing facility shall be submitted for justification of capability of testing. | | | | |



PRE - QUALIFYING REQUIREMENTS

PROJECT: 3X16 MW HPPCL CHANJU STAGE III HEP

PACKAGE: D/G EOT CRANES UP TO 100T

CRITERIA FOR EVALUATION - FINANCIAL :

| | Amount (in Rs.) |
|--|---------------------|
| Average annual financial turnover value during any three out of last six Financial Years as on tender due date should not be less than | 31,00,000.00 |

Rs.Thirty One Lakh only

Notes:-

a) The bidder has to submit financial accounts (audited, if applicable comprising of Audit report, Balance Sheet, Profit & Loss A/c Statement and Notes/Schedules pertaining to Turnover/Sales/Revenue), for any three out of last six Financial Years (or from the date of incorporation, whichever is less) as on tender due date to review the above criteria. In case the incorporation of vendor is less than 3 years, average annual financial turnover shall be calculated based on available information as below:-

i) If the accounts are available for ≤ 1 Financial Year, the Average Annual Turnover shall be calculated based on available information divided by 1 (One).

ii) If the accounts are available for >1 but ≤ 2 Financial Years, the Average Annual Turnover shall be calculated based on available information divided by 2 (Two).

iii) If the accounts are available for >2 but ≤ 3 Financial Years, the Average Annual Turnover shall be calculated based on available information divided by 3 (Three).

b) Foreign bidder is to submit a latest report from reputed third party business rating agency like Dun & Bradstreet, Credit reform etc. in addition to the documents mentioned at point (a) above for review of above criteria.

c) Other Income shall not be considered for arriving at Annual Turnover/Sales. For evaluation purpose, turnover figure excluding taxes shall be considered.

d) For evaluation of foreign bidder, exchange rate (TT selling rate of SBI) as on scheduled date of tender opening (Part-I bid in case of two part bid) shall be considered.

e) Bidder who is 50% or above subsidiary of any other company including those registered outside India and does not meet any of the above Financial Criteria, such bidder may be qualified based on credentials of its holding company provided such holding company meets the above PQR criteria. In such case, the Bidder would be required to furnish a Letter of Support from its Holding Company, pledging unconditional and irrevocable financial support for the execution of the Contract by the Bidder in case of award.

f) In cases where audited results for the last financial year as on the date of Techno Commercial bid opening are not available, a Certificate would be required from CEO/CFO stating that the financial results of the Company are under audit as on the date of Techno-commercial bid opening and are not available.