



Bharat Heavy Electricals Limited
(A Govt. Of India Undertaking)
PROJECT ENGINEERING MANAGEMENT
NOTICE INVITING TENDER (NIT)

Enquiry No- PE/PG/RTC/E-7534/2024

Date- 1-Jun-24

BHEL invites offers from reputed Suppliers as per following terms and conditions -

1. Tender Type	Open Tender (Domestic-Indian)	
2. Mode of Enquiry	E - PROCUREMENT	
3. Project	Framework Agreement (Rate Contract) of Chain Pulley Block	
4. Executing Agency	BHEL-PEM	
5. Package	CHAIN PULLEY BLOCK	
6. Whether Package is DIVISIBLE or NON - DIVISIBLE	DIVISIBLE	
7. Due Date & Time	11-06-2024	2 PM
8. Earnest Money Deposit (EMD)	Not Applicable	
9. Tender Cost	NIL	
10. Numbers of Part bid	2-Part bid (Techno-Commercial and Price Bid)	
11. Technical Scope	As per Tech. Spec No: PE-TS-RC3-563-A001 Rev 00	
12. Pre-Bid clarifications	Suppliers to contact BHEL-PEM (over phone/mail/visit-BHEL-PEM) for any clarification (technical or commercial) at least 05 days before due date of tender opening & get it clarified well before due date so that offers by the Suppliers may be submitted within due date & time.	
13. Schedule of Pre-Bid Meeting	Pre-Bid meeting may be conducted, if required, and the same shall be communicated through corrigenda for this tender enquiry before technical bid opening.	
14. Prequalification Requirement	Financial PQR-NO	Technical PQR- YES
15. Delivery terms	For Supply Portion: FOR Despatch station	
16. Delivery Schedule: -		
Engineering	Drawing/ documents submission & re-submission schedule shall be as per Technical Specification: PE-TS-RC3-563-A001 Rev 00	
Main Supply ("A")	72 days from the date of PO.	
Mandatory Spares/ Essential Spares	90 days from BHEL clearance date.	
Notes:		
a. Supplier to start manufacturing/supply only after getting the applicable engineering Drgs. /docs approved from BHEL/End Customer.		
b. Drawings /documents submission/re-submission schedule shall be as per Technical specification (PE-TS-RC3-563-A001 Rev 00) which shall be used for progress monitoring purpose and required course correction, if any.		
c. The delivery date specified is for completion of the deliveries. Deliveries to start progressively so as to meet the completion schedule.		
d. The delivery conditions specified are for contractual purposes. However, to meet project requirement, BHEL may ask for early deliveries without any compensation thereof.		



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2.0 Validity of contract placed on basis of Framework Agreement (Rate Contract) for individual projects (PO rates, terms and conditions):

Supplier has to make supply of goods/services as per the delivery time mentioned above. However, due to unavoidable circumstances if delay happens in providing inputs/ clearances (inputs, Engineering approvals, deputing inspector for inspection, issuance of MDCC and any hold imposed owing to site issues etc.) for which delivery time extension is admissible as per point no.3, in such situation it shall be obligatory at Supplier part to execute the contract at PO rates, terms and conditions where inputs/ clearances has been accorded within validity of contract. Validity period for various activities shall be as defined below or as mentioned in the NIT.

2.1 Contract for main supply shall be valid for 365 ('C') days from the PO date.

However, delay at Supplier's end (if any) shall be added to the validity period and contract validity shall get extended by the delay period at Supplier's end.

For example: Original Delivery period for main supply: A (in days)

Delay at Supplier's end: B (in days beyond "A" days)

Contract validity: C+B (in days)

2.2 Validity of the contract for Mandatory spares/ Essential Spares:

Validity of contract for Mandatory spares/ Essential Spares shall be one year over and above contractual validity period for main supply including quantity variation (if any) as specified at point no. 2.1 above.

Notes:

- a. B is the Supplier delay days beyond original contractual delivery period for main supply /extended delivery period owing to time taken by BHEL.
- b. Main supply, applicable in the contract released/ cleared for manufacturing within contractual validity period, to be supplied by Supplier/supplier at PO rates, terms and conditions.
- c. Execution of the contract quantities released beyond contract validity period shall be decided on mutual consent basis at PO rates, terms and conditions.

3.0 Delivery Extension: Extension of contractual delivery time:

Delivery time mentioned in the NIT includes Engineering completion time (time for drawing/document submission/resubmission by the Supplier and review/approval of the same by the BHEL/End customer), manufacturing, inspection, Packing and dispatch time. Due diligence is to be observed by the Supplier to ensure timely completion of engineering and supply.

During the execution of the contract, time loss occurred owing to the reason attributable to BHEL besides force majeure shall be considered for delivery time extension to the Supplier as given below: -

- i. Any Delay in providing comments/ approval on Primary drawing/documents beyond the stipulated time as specified in NIT.
- ii. Time Loss in approval of the drawing/document as a result of increase in the iteration not attributable to the Supplier (i.e. resubmission owing to end customer comments) as certified by BHEL. Time extension equivalent to the resubmission time noted in the tech. spec and consequential increase in the approval time in lieu of increase in iteration shall be applicable. However, for incomplete re- submission time loss shall be in Supplier account.
- iii. Delay in providing engineering input/material by BHEL.
- iv. Delay in deputing inspector for inspection and delay in release of MDCC in line with GCC



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v. Any hold put by BHEL for whatever reasons during execution of contract (within contract validity period), time extension equivalent to hold period shall be admissible. However, in the event hold period continues for more than 30 days then, an additional fifteen days for the purposes of mobilization and demobilization of resources shall also be admissible.

Note: Extension in delivery period if any with or without imposition of LD shall be considered after detailed delay analysis based on provisions given above. However, no delay analysis will be applicable if supply is completed within delivery schedule as specified in Purchase order.

17. Validity of offer shall be as per cl. no.7 (Instruction to Bidders) of GCC Rev 07.

18. CIF Content	Not Available
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19. Integrity Pact Applicability	NO
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20. Performance Security (PS)	PS applicability	<p>No Performance Security (PS) against the current enquiry (for Framework Agreement (Rate Contract) for Chain Pulley Block package). However, Suppliers to note that Performance Security shall be submitted for orders placed by Project Groups of BHEL-PEM on the Framework Agreement (Rate Contract). Successful Supplier/s will have to submit Bank Guarantee for each POs (irrespective of value) which will be placed under the (Framework Agreement) Rate Contract finalised through this tender considering RC as original contract as per format mentioned in in GCC Rev 07. Relevant details of the PS to be submitted on the basis of Framework Agreement (Rate Contract) as following:</p>
		<p>Validity of PS: As per clause no-11.0 of General Commercial Terms and Conditions of GCC Rev-07.</p> <p>PS Submission: PS should be in favour of BHEL-PEM.</p>
	I	Initially 10% of the contract value (total Ex-works price). However, 5% of the contract value (as above) will be released after completion of Main Supply based on certification by Project Group/Purchaser
	II	<p style="text-align: center;">OR</p> <p>5% of the contract value (total Ex-works price). Additional 5% of the contract value will be retained from first bill & subsequent bill(s) of the same contract. The retention amount will be released after completion of Main Supply based on certification by Project Group/Purchaser</p>



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	<p style="text-align: center;">Modes of Deposit</p>	<p>Performance security may be furnished in the following forms:</p> <p>a) Local cheques of Scheduled Banks (subject to realization)/ Pay Order/ Demand Draft/ Electronic Fund Transfer in favour of BHEL.</p> <p>b) Bank Guarantee from Scheduled Banks / Public Financial Institutions as defined in the Companies Act. The Bank Guarantee format should have the approval of BHEL.</p> <p>c) Fixed Deposit Receipt issued by Scheduled Banks / Public Financial Institutions as defined in the Companies Act (FDR should be in the name of the Contractor, a/c BHEL).</p> <p>d) Securities available from Indian Post offices such as National Savings Certificates, Kisan Vikas Patras etc. (held in the name of Contractor furnishing the security and duly endorsed/ hypothecated/ pledged, as applicable, in favour of BHEL).</p> <p>e) Insurance Surety Bond.</p> <p>(Note: BHEL will not be liable or responsible in any manner for the collection of interest or renewal of the documents or in any other matter connected therewith)</p> <p>Performance Security is to be furnished within 14 days from the date of PO/LOA and it should remain valid for a period of 60 (sixty) days beyond the date of completion of all contractual obligations of the supplier, including warranty obligations.</p>
	<p style="text-align: center;">Remarks for PS</p>	<p>a) The performance security will be forfeited and credited to BHEL's account in the event of a breach of contract by the supplier.</p> <p>b) Performance security should be refunded to the contractor without interest, after he duly performs and completes the contract in all respects but not later than 60(sixty) days of completion of all such obligations including the warranty under the contract.</p> <p>The Performance Security shall not carry any interest.</p>



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<p>21. Breach of contract, Remedies and Termination (Tenderer to note that this clause will supersede any clause regarding recovery amount from Tenderer due to Breach on contract mentioned anywhere in GCC Rev07 and its corrigendum)</p>	<p>In case of Breach of Contract, BHEL shall recover 10% of the contract value from the Supplier using following instruments:</p> <p>(i) encashment of security instruments like EMD, Performance Security with executing agency (PEM) against the said contract.</p> <p>(ii) balance amount (if value of security instruments is less than 10% of the contract value) from other financial remedies i.e. available bills of the Supplier, retention amount etc. with executing agency (PEM).</p> <p>(iii) balance amount from security instruments like EMD, Performance Security and other financial remedies i.e. available bills of the Supplier, retention amount etc. with other units of BHEL.</p> <p>(iv) if recovery is not possible then legal remedies shall be pursued.</p>
<p>22. Tender Evaluation - The evaluation currency for this tender shall be INR. Evaluation will be done on overall L1 (Total Package Price including Freight excluding taxes) basis with necessary loading as applicable.</p> <p>In the course of evaluation, if more than one Supplier happens to occupy L-1 status, effective L-1 will be decided by soliciting discounts from the respective L-1 Suppliers.</p> <p>In case more than one Supplier happens to occupy the L-1 status even after soliciting discounts, the L-1 Supplier shall be decided by a toss/draw of lots, in the presence of the respective L-1 Supplier (s) or their representative(s). Ranking will be done accordingly. BHEL's decision in such situations shall be final & binding.</p>	
<p>23. Terms & Conditions: - The terms & conditions shall be as per enclosed Special Conditions of the Contract (copy enclosed), GCC Rev 07 & Corrigendum 01 to GCC Rev-07 which is available on www.pem.bhel.com and other Terms and Conditions included in this Enquiry Letter.</p>	
<p>24. Payment Terms:</p> <p>As per clause No. 9.1 of General Commercial Terms and Conditions of GCC, Rev -07</p>	
<p>25. Reverse Auction:</p> <p>BHEL shall be resorting to Reverse Auction (RA) (Guidelines as available on www.bhel.com) for this tender. RA shall be conducted among the techno-commercially qualified Suppliers. Price bids of all techno-commercially qualified Suppliers shall be opened and same shall be considered for RA. In case any Supplier(s) do(es) not participate in online Reverse Auction, their sealed envelope price bid along with applicable loading, if any, shall be considered for ranking.</p>	
<p>26. Supplier to note that this is an Open Tender enquiry & Reverse Auction participation shall be subject to following condition:</p> <p>a. Qualifying Technical & Financial Pre-Qualification Requirement.</p> <p>b. Techno-commercial acceptance of offer by BHEL-PEM.</p> <p>c. Registration in BHEL-PEM for Chain Pulley Block package</p> <p>The Suppliers who are not registered with BHEL-PEM may apply for registration in BHEL-PEM through Registration Portal available at https://supplier.bhel.in/. All credentials and/or documents duly signed & stamped related to registration has to be uploaded on the website & submit the application for registration. One set of hard copy filled-up SRF downloaded from Online Registration Portal duly signed & stamped has to be submitted.</p>	



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27. Clause no 9.6 (excluding notes) of GCTC of GCC Rev. 07 shall be read as-

"Suppliers shall submit billing documents for payment directly to BHEL. Payment will be released within days as mentioned below after submission of complete documents as per clause no 9.7.2 – 9.7.5:

- a. 90 days for non MSME as per MSMED Act
- b. 45 days for Suppliers qualified and registered as Micro and Small Enterprises MSEs as per MSMED Act
- c. 60 days for Suppliers qualified as Medium Enterprises as per MSMED Act."

28. Suppliers are requested to refer clause no 26.0 (Make in India) of Instructions to Bidders of GCC Rev 07. Further, following shall be taken into consideration for submitting bids by Suppliers:

- For this procurement, Public Procurement (preference to make in India), order 2017, Dt:- 15.06.17, 28.05.18 & 29.05.19, 16.09.2020 and subsequent orders issued by the respective nodal ministry shall be applicable even if issued after issue of this NIT but before finalization of contract/PO/WO against this NIT. In the event of any nodal ministry prescribing higher or lower percentage of purchase preference and / or local content in respect of this procurement, same shall be applicable. Suppliers are requested to go through the above mentioned orders and submit their in adherence to Public Procurement (preference to make in India), order 2017, Dt:- 15.06.17, 28.05.18 & 29.05.19 and subsequent orders.
- Minimum Local Content prescribed for Chain Pulley Block Package by Nodal Ministry is 60% and hence for this procurement, as per Public Procurement (preference to make in India), order 2017, Dt:- 15.06.17, 28.05.18, 29.05.19 & 16.09.2020 and subsequent orders issued by the nodal ministry, **this package is reserved for only Class-I Supplier having Minimum local Content 60%**. Class-II and Non-Local suppliers are not eligible to quote for this enquiry.
- The local Supplier at the time of tender, along with the part-1 bid:
 - i) Provide a certificate giving the percentage of local content.
 - ii) Provide the details of the location(s) at which the local value addition shall be made.

29. Purchase preference to MSE Supplier:

Suppliers to note that contract of subject tender is proposed to be done with Two (02) suppliers in the ratio of 70-30 value-wise at L1 FOR site price as follows:

Splitting criteria:

Case 1: If L1 is Non-MSE Supplier, then order for 70% value shall be given to L1 Supplier. MSE preference criteria shall be exercised for balance 30% value in order wherein L1 Rates (Ex works + Freight) shall be counteroffered to all techno-commercially qualified MSE Suppliers. In case acceptance of counteroffer is received from more than one MSE Supplier then acceptance shall be considered as per FINAL Reverse Auction Ranking (as applicable). If MSE Suppliers regret to match L-1 Rates, then 30% value shall be counter-offered to all Non-MSE Techno-commercially approved Suppliers. In case acceptance of counter offer is received from more than one Supplier, then acceptance of lowest Supplier(s) as per FINAL Reverse Auction Ranking.

Case 2: If L1 is MSE Supplier then order for 70% value shall be given to L1 Supplier. MSE preference criteria shall be exercised for balance 30% value in order wherein L1 Rates (Ex works + Freight) shall be counteroffered to balance techno-commercially qualified MSE Suppliers. In case acceptance of counter offer is received from more than one MSE Suppliers then acceptance shall be considered as per FINAL Reverse Auction Ranking (as applicable). If MSE Suppliers regret to match L-1 rates, then 30% value shall be counteroffered to all Non-MSE Techno-commercially approved Suppliers. In case acceptance of counter offer is received from more than one Supplier, then acceptance of lowest Supplier(s) as per FINAL Reverse Auction Ranking.

If none of the Supplier accepts counter-offered L1 rates, then contract shall be awarded to L1 Supplier for 100% value.



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30. All corrigenda, addenda, amendments, time extensions, clarifications, etc. to the tender will be hosted on BHEL website (www.bhel.com), <https://eprocurebhel.co.in/nicgep/app> & BHEL-PEM website (www.pem.bhel.com). Suppliers should regularly visit websites to keep themselves updated.

31. Supplier shall submit Unpriced copy of the price bid with all amounts/figures/ percentages wherever quoted in the price bid being replaced with the word 'Quoted' or 'Q'.

32. If Supplier mentions Not Applicable / Not required / Not Quoted in BHEL price format, the same to be substantiated by the Supplier. If such item is required to be supplied for system completion in future, same will be supplied free of cost.

33. All other correspondence thereof shall be addressed to the undersigned by name & designation and sent at the following address:

Manish Kumar Sinha / Sr. Mgr.-CMM
M/s Bharat Heavy Electricals Ltd.,
Project Engineering Management,
Power Project Engineering Institute,
HRD & ESI Complex,
Plot No 25, Sector-16 A, Noida-201301
E-MAIL: manish.sinha@bhel.in
Ph. No. 0120-6748120

Kumar Suman Saurabh/ Dy. Manager- CMM
M/s Bharat Heavy Electricals Ltd.,
Project Engineering Management,
Power Project Engineering Institute,
HRD & ESI Complex,
Plot No 25, Sector-16 A, Noida-201301
E-MAIL: sumansaurabh@bhel.in
Ph. No. 9718771765

34. GST shall be payable extra at actual as per the HSN code finalised for the items during detailed BBU.

35. GeM Seller ID shall be mandatory before placement of order/award of contract to the successful Supplier

36. Suppliers to quote freight charges in percentage of their quoted Total Ex-works Prices. Supplier to quote non-zero freight % for supply.

37. Over all (%) quantity variation: The variation on overall package value shall be limited to +/-30%

38. Suppliers shall Quote for the entire scope. Partial scope is not acceptable.

39. Suppliers to ensure that Third party/customer issued certificates being submitted as proof of PQR qualification should have verifiable details of document/certificate issuing authority such as name & designation of Issuing Authority and its organization contact number and e - mail Id etc.
Offer of only those Suppliers shall be considered further, who meets the PQR criteria.
Suppliers to furnish latest verification details for checking veracity of document(s) by BHEL. In case the same found not available, Purchaser has right to reject such document from evaluation.
Format for the same is below: -

Sl. No.	Project Name	Customer Name, Contact Address, Phone No. & Email ID	Contract/ Order No.	Value of Contract/ Order	Brief of Work	Completion Date

40. Self-declarations/ auditor's/ accountant's certificates submitted by the manufacturer/ supplier may be verified randomly by the committee constituted as per MoP Order 28-07-2020. In case of false documents/misrepresentation of the facts requisite action against such manufacturer/ supplier will be taken based on the recommendation of the Committee

41. Suppliers to comply Govt. of India, Ministry of Power, order no-25-111612018-PG dated 02/07/2020 regarding mandatory testing of all the imported items/equipment's/components.



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42. This item/Package falls under the list of items defined in Para 3 of Ministry guideline ref no.F.20/2/214-PPD(Pt.) dated.20-09-2016 (in respect of procurement of items related to public safety, health, critical security operations and equipment's, etc) & hence no relaxation of PQR for start-up/MSME Suppliers is envisaged for the items/Package.
43. The Supplier declares that they will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other Supplier(s). This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process. In case, the Supplier is found having indulged in above activities, suitable action shall be taken by BHEL as per extant policies/ guidelines.
44. The offers of the Suppliers who are under suspension as also the offers of the Suppliers, who engage the services of the firms debarred across BHEL, shall be rejected. The list of firms debarred across BHEL is available on BHEL web site www.bhel.com.
- 1.0 Integrity commitment, performance of the contract and punitive action thereof:
- 1.1. Commitment by BHEL: BHEL commits to take all measures necessary to prevent corruption in connection with the tender process and execution of the contract. BHEL will during the tender process treat all Supplier(s) in a transparent and fair manner, and with equity.
- 1.2. Commitment by Supplier/ Supplier/ Contractor:
- 1.2.1. The Supplier/ supplier/ contractor commit to take all measures to prevent corruption and will not directly or indirectly influence any decision or benefit which he is not legally entitled to nor will act or omit in any manner which tantamount to an offence punishable under any provision of the Indian Penal Code, 1860 or any other law in force in India.
- 1.2.2. The Supplier/ supplier/ contractor will, when presenting his bid, disclose any and all payments he has made, and is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract and shall adhere to relevant guidelines issued from time to time by Govt. of India/ BHEL.
- 1.2.3. The Supplier/ supplier/ contractor will perform/ execute the contract as per the contract terms & conditions and will not default without any reasonable cause, which causes loss of business/ money/ reputation, to BHEL.
- If any Supplier/ supplier/ contractor during pre-tendering/ tendering/ post tendering/ award/ execution/ post-execution stage indulges in malpractices, cheating, bribery, fraud or and other misconduct or formation of cartel so as to influence the bidding process or influence the price or acts or omits in any manner which tantamount to an offence punishable under any provision of the Indian Penal Code, 1860 or any other law in force in India, then, action may be taken against such Supplier/ supplier/ contractor as per extant guidelines of the company available on www.bhel.com and/or under applicable legal provisions".
45. A Supplier shall not have conflict of interest with other Suppliers. Such conflict of interest can lead to anticompetitive practices to the detriment of Procuring Entity's interests. The Supplier found to have a conflict of interest shall be disqualified. A Supplier may be considered to have a conflict of interest with one or more parties in this bidding process, if:
- a) they have controlling partner (s) in common; or
 - b) they receive or have received any direct or indirect subsidy/ financial stake from any of them; or
 - c) they have the same legal representative/agent for purposes of this bid; or
 - d) they have relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another Supplier; or
 - e) Supplier participates in more than one bid in this bidding process. Participation by a Supplier in more than one Bid will result in the disqualification of all bids in which the parties are involved. However, this does not limit the inclusion of the components/ sub-assembly/ Assemblies from one bidding manufacturer in more than one bid, or
 - f) In cases of agents quoting in offshore procurements, on behalf of their principal manufacturers, one agent cannot represent two manufacturers or quote on their behalf in a particular tender enquiry. One manufacturer can also authorize only one agent/dealer. There can be only one bid from the following:
 - 1. The principal manufacturer directly or through one Indian agent on his behalf; and
 - 2. Indian/foreign agent on behalf of only one principal,



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Or

g) A Supplier or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the contract that is the subject of the Bid, or

h) In case of a holding company having more than one independently manufacturing units, or more than one unit having common business ownership/management, only one unit should quote. Similar restrictions would apply to closely related sister companies. Suppliers must proactively declare such sister/ common business/ management units in same/ similar line of business.

46. All the above terms and conditions, post-bid agreements/MoMs (during Techno- Commercial evaluation) shall automatically become a part of the Order/Contract after its finalization.

47. Suppliers to note that offers shall be submitted strictly in accordance with the requirements of tender documents. Suppliers shall upload their complete offer meeting the requirements of the tender documents on e-procurement portal <https://eprocurebhel.co.in/nicgep/app>.

Following documents need to be uploaded:

- Offer forwarding/ Covering letter with Un-price bid, DEVIATION SHEET (COST OF WITHDRAWAL)
- Documents required for meeting Technical & Financial PQRs
- Local content certificate in line with Make in India Order dated 16.09.2020 along with AGM as per clause no. 31 of NIT.
- Land Border certificate compliance as per DOE circular dated 23.02.2023
- Price bid along with Annexure-II on e-procurement portal - <https://eprocurebhel.co.in/nicgep/app>

48. It shall be the responsibility of the Supplier to ensure that the tender is uploaded on or before the due date and time. Late offers are not accepted.

49. All other terms and conditions shall be as per Special Conditions of Framework Agreement (Rate Contract), and GCC Rev07 & Corrigenda-01 to GCC Rev 07.

In the event of any contradiction in the terms and conditions mentioned, the order of preference shall be as mentioned in clause no 36 of GCTC of GCC (Rev.07).

Note - In case you are not making an offer against this enquiry, you are requested to send a regret letter so as to reach us on or before the due date

**TECHNICAL SPECIFICATION
FOR
CHAIN PULLEY BLOCKS WITH / WITHOUT TROLLEY**

SPECIFICATION No. PE-TS-RC3-563-A001
ISSUE NO. 1
REV NO. 0



**BHARAT HEAVY ELECTRICALS LIMITED
POWER SECTOR
PROJECT ENGINEERING MANAGEMENT
NOIDA, INDIA**

325263/2024/PS-PEM-MAX



TECHNICAL SPECIFICATION FOR CHAIN PULLEY BLOCKS WITH / WITHOUT TROLLEY

PE-TS-RC3-563-A001

Issue. No. 01

Rev. No. 00

Date : May 2024

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	TECHNICAL SPECIFICATION FOR CHAIN PULLEY BLOCKS WITH / WITHOUT TROLLEY	PE-TS-RC3-563-A001
		Issue. No. 01
		Rev. No. 00
		Date : May 2024

PROJECT INFORMATION

SL.NO	DESCRIPTION	DETAILS		
1	CUSTOMER	Project specific		
2	LOCATION	Project specific		
3	METEOROLOGICAL DATA			
3.1	OUTSIDE DESIGN TEMPERATURES	Summer	Monsoon	Winter
	DBT (°C)			
	WBT (°C)			
3.2	SEISMIC ZONE	AS PER IS 1893		

	TECHNICAL SPECIFICATION FOR CHAIN PULLEY BLOCKS WITH / WITHOUT TROLLEY	PE-TS-RC3-563-A001
		Issue. No. 01
		Rev. No. 00
		Date : May 2024


SCOPE


SCOPE OF THIS PACKAGE COVERS THE FOLLOWING:

SL.NO	PARAMETERS	REQUIREMENT
1	Supply Including Design, Engineering, Manufacturing Of EOT cranes	
a)	Main Supply	YES
b)	Commissioning Spares	NO
2	Painting	YES
3	Inspection & Testing	YES
4	Packing	YES
5	Transportation & Delivery To Site	YES
6	Erection & Commissioning	NO
7	Supervision of Erection & Commissioning	NO
8	Performance Guarantee (PG) Test	NO
9	Mandatory Spares	NO
10	O & M Service	NO
11	O & M Spares	NO
12	Storage	NO

EXCLUSIONS

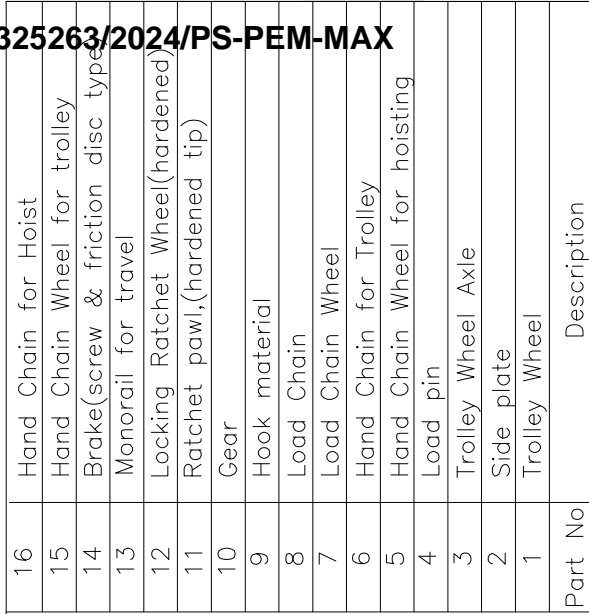
1	Monorail for CPB
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	TECHNICAL SPECIFICATION FOR CHAIN PULLEY BLOCKS WITH / WITHOUT TROLLEY	PE-TS-RC3-563-A001
		Issue No. 01
		Rev. No. 00
		Date : May 2024
	GENERAL TECHNICAL REQUIREMENT	
1.0	It is not the intent to specify herein all the details of design and manufacture. However, the equipment shall conform in all respects to high standards of design, engineering and workmanship and shall be capable of performing the required duties in a manner acceptable to purchaser who will interpret the meaning of drawings and specifications and shall be entitled to reject any work or material which in his judgement is not in full accordance herewith.	
2.0	The equipment shall comply with all applicable safety codes and statutory regulations of India as well as of the locality where the equipment is to be installed.	
3.0	In the event of any conflict between the codes and standards referred to in the above clauses and the requirement of this specification, the requirement of Technical Specification shall govern.	
4.0	Drawing/document submission shall be through web based Document Management System. Bidder would be provided access to the DMS for drg/doc approval and training for the same. Bidder to ensure proper internet connectivity at their end.	
5.0	The first revision drawings/ documents submitted by vendor shall be complete in all respects.Any incomplete drawing submitted shall be treated as non- submission with delays attributable to vendor's account. For any clarification/ discussion required to complete the drawings, the bidder shall himself depute his personal to BHEL / Customer's place as per the requirement for across the table discussions/ finalizations/ submissions of drawings.	
6.0	Bidder shall submit stamped QP on compliance route in the event of order. In case, the bidder is supplying the item from outside India, the third party inspection shall be arranged and considered by the bidder in their offer.	
7.0	Sub vendor list is attached. Any additional sub - vendors proposed by bidder during contract stage shall be subject to BHEL approval in the event of order.	
8.0	Document approval by BHEL shall not absolve the supplier of their contractual obligations of completing the work as per specification requirement without any commercial and delivery impact.	
9.0	Each CPB shall have a permanent inscription of English on each side, stating the safe working loads in tonnes, year of manufacture, serial number and manufacturer's name.	
10.0	Bearing life not less than 10,000 working hours.	
11.0	Effort on hand wheel shall not exceed 25 kgf	
12.0	Spares	
	<p>One (1) Set is defined as 100% requirement for one CPB for the entire CPBs of similar size & capacity. All essential spares shall be supplied as per the requirement of the specifications. In case any spare indicated in the specification is not applicable for particular equipment then suitable applicable alternate spare have been offered / shall be supplied without any financial implication.</p> <p>In case spares indicated in the list are not applicable to the particular design offered by the bidder, the bidder should offer spares applicable to offered design with quantities generally in line with the approach followed in the above list. Any item which is quoted as "not applicable" in the above list and is found to be "applicable" at a later date shall be supplied by the Bidder without any commercial implications.</p> <p>Interchangeability and Packings: All spares supplied under this contract shall be strictly interchangeable with parts for which they are intended for replacements. These spares should include all mounted accessories like components, boards, add or items, fitting, connectors etc. and be complete in all respects so that the replacement of the main items by these spares does not require any additional item. The vendors must conform the pair to pair compatibility of each electrical spares modules with the modules should be supplied in the original package. The spare shall be treated and properly packed for long term storage.</p>	

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TECHNICAL DATA SHEET-A

SPECIFICATION & DATA SHEET FOR CHAIN PULLEY BLOCKS WITH / WITHOUT TROLLEY		
A. GENERAL INFORMATION		
1	Type	Chain pulley block with/ without travelling trolley
2	Design	As per IS: 3832
3	Duty Class	Class –2 as per IS: 3832
B. TECHNICAL PARAMETERS / DESIGN FEATURES		
4	Hoisting Mechanism	
a)	Type	Hand operated gear transmission
b)	Hook	Point hooks with shank, as per IS: 15560, swivelling with safety latch
c)	Hook bearing	Thrust ball bearing of hook suspension
d)	Gears / pinion	Spur / Helical
i)	Material	As per IS 3832
ii)	Type of bearing used	Antifriction ball bearing / Roller
e)	Ratchet Pawl & Wheel	
i)	Material	Steel, hardened and tempered
ii)	Hardness	The hardness of the pawl tip shall not be less than 40HRC and that of ratchet is not less than 30HRC.
iii)	Type of bearing used	Antifriction ball bearing / Roller
f)	Load Chain	Link type, T(8), As per ISO: 3077 / IS-3109/IS-6216
g)	Load chain wheel material	As per IS 3832 / pressed steel
h)	Hand Chain (For hoist)	Link type, Mild steel (grade 30) as per IS 2429 Part I / II
i)	Hand chain wheel (with flanges) material	As per IS 3832 / pressed steel
j)	Method of lubrications	Grease
k)	Brakes	Screw and friction disc type
5	Trolley & Bridge Drive	(Applicable for CPB with trolley only)
a)	Trolley	Geared (Manually operated)
i)	Material of frame	Rolled structural steel (IS:2062 Grade A or B)
b)	Hand Chain For trolley	Link type, Mild steel (grade 30) as per IS 2429 Part I / II
c)	Trolley Wheel material	Carbon steel
i)	Type of bearing used	Antifriction ball bearing
d)	Gears / pinion	Spur / Helical
i)	Material	As per IS 3832
ii)	Type of bearing used	Antifriction ball bearing / Roller
e)	Method of lubrications	Grease
6	SPECIFIC REQUIREMENT FOR CHAIN PULLEY BLOCKS FOR HAZARDOUS AREA:	
a)	MOC for Ratchet wheel, chain guides and gears:	HTB2 / Solid construction in aluminum bronze or phosphor bronze
b)	MOC for hand chain wheel:	Solid construction/ rims of aluminum bronze or phosphor bronze / HTB2
c)	MOC for hand chain wheel guide	Solid construction in aluminum bronze or phosphor bronze / HTB2
d)	MOC for Un-geared & geared wheels	HTB2/PB-4 lining on trolley wheels
C. TESTING AND INSPECTION		
7	Inspection and Testing	As per Quality Plan.



Description	1 Ton	2 Ton	3 Ton
A	500 max	760 max	850 max
B	As per manufacturer's standard		
C	As per manufacturer's standard		
D	As per manufacturer's standard		
E	As per manufacturer's standard		
Hoist Pull	As per IS-3832		
Lift	To be informed on project to project basis.		

- 1) Trolley shall be suitable for beam type to be informed on project to project basis.
- 2) Trolley shall be adjustable type suitable for different beam sizes.
- 3) This Hoist shall be of Class 2 duty & designed as per IS:3832 (latest)
- 4) All CPB shall be tested at 1.5 times of SWL
- 5) Runway beam is in civil contractor's scope.
- 6) All dimensions are in mm. Tolerance $\pm 10\%$.
- 7) Painting- Epoxy paint
- 8) Suitable for curved path (rad of curvature- min 2m)


Description

To be informed on project to project basis.

STANDARD

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- 4) All dimensions are in mm. Tolerance $\pm 10\%$.
- 2) This Hoist shall be of Class 2 duty & designed as per IS:3832 (latest)
- 3) All CPB shall be tested at 1.5 times of SWL
- 4) Painting- Epoxy paint

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LIST OF ESSENTIAL SPARES OF CHAIN PULLEY BLOCK (Project specific)

For details, refer unpriced schedule

SR. NO.	ITEM DESCRIPTION	UOM	QUANTITY
i	Load chain Wheel	No	1
ii	Load chain stripping fork	No	1
iii	Hand Chain wheel	No	1
iv	Ratchet pawl	No	1
v	Locking ratchet wheel	No	1
vi	Guide roller	No	1
vii	Brake disc	No	1
viii	Bearings of each type & size used in load chain wheels, lifting hook.	Set	1
ix	Bearings of each type & size used in trolley wheels.	Set	1
x	Load chain (for hoisting)	per metre	1
xi	Hand chain (for hoisting)	per metre	1
xii	Hand chain (for travelling)	per metre	1
xiii	Grooved pulley	Set	1
xiv	Pinion	Set	1
xv	Shaft pin	Set	1

Note:

1. The above list is indicative for variety of spares required. Actual price is to be quoted by bidder against the spares items as indicated in the price schedule.
2. "One (1) set of each type & size" is defined as 100% requirement for one CPB
3. 100% of total population of each type, size and rating is defined as 100% requirement for each CPB

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SUB VENDOR LIST


SR. NO.	ITEM	SUPPLIERS	REMARKS
1.	STEEL	SAIL	
		TISCO	
		JINDAL	
		RINL	
		ESSAR	
2.	HOOKS	STEEL FORGING & ENGG. CO.,	
		SIMRITI FORGING	
		KARACHIWALA	

Note:

1	THE SUB VENDOR LIST ABOVE IS INDICATIVE ONLY AND IS SUBJECT TO BHEL AND END CUSTOMER APPROVAL DURING DETAILED ENGINEERING STAGE WITHOUT ANY COMMERCIAL & DELIVERY IMPLICATION TO BHEL
2	BIDDER TO PROPOSE SUB VENDOR WITHIN 4 WEEKS OF PLACEMENT OF LOI. THEREAFTER NO REQUEST FOR ADDITIONAL SUB-VENDOR SHALL BE ENTERTAINED.
3	THE INSPECTION CATEGORY WILL BE INTIMATED AFTER AWARD OF CONTRACT BY BHEL/CUSTOMER. HOWEVER THE SAME WILL BE ADHERED BY THE BIDDER WITHOUT ANY COMMERCIAL AND DELIVERY IMPLICATION TO BHEL/ NTPC.

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STANDARD MANUFACTURING QUALITY PLAN FOR CHAIN PULLEY BLOCKS

325263/2024/PS-PEM-MAX 		BIDDER/ SUPPLIER NAME & ADDRESS		STANDARD QUALITY PLAN						SPEC. NO:		DATE:		
				CUSTOMER:						QP NO.: PE-QP-STD-563-A001		DATE:		
				PROJECT:						PO NO.:		DATE:		
				ITEM: CHAIN PULLEY BLOCK			SYSTEM: MATERIAL HANDLING			SECTION: MH		SHEET 1 of 1		
SL NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLAS S	TYPE OF CHECK	QUANTUM OF CHECK		REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD		AGENCY			REMARKS
1	2	3	4	5	6		7	8	9	* D	**			10
					M	B/C					M	B	C	
1	HOOK	-PROOF LOAD -MPI BEFORE & AFTER P/L TEST	MA	LOAD TEST DPT/MPI UT	100%	100%	IS 15560 ASTM E165 ASTM A388	IS 15560 NO DEFECT 20% DEF. MAX 80% BWE MIN.	MTC/IR	√	P	V	V	UT FOR SHANK DIA >40MM
2	LOAD CHAIN, HAND CHAIN HOIST, HAND CHAIN TROLLEY	GRADE & DIMENSION	MA	GRADE & DIMENSION	1 SAMPLE PER LOT		APPROVED DRAWING	APPROVED DRAWING	MTC	√	P	V	V	
3	RATCHET PAWL RATCHET WHEEL	HARDNESS SURFACE CRACK	MA	HARDNESS DPT	100%	100%	ASTM 3832 /APP. DRAWINGS ASMT E165		MTC/IR	√	P	V	V	
4	GEAR PINION	SURFACE HARDNESS SURFACE CRACK UT IN PROOF MACHINED DPT ON TOOTH	MA	HARDNESS DPT FOR SURFACE CRACK	RANDOM ASTM E165 FOR DPT		APPROVED DRAWING/ MFG STANDARD NO DEFECT		MTC/ IR	√	P	V	V	GEAR TEETH DPT
5	WHEELS	UT IN PROOF MACHINED DPT ON TREAD AREA HARDNESS	MA	DPT/UT	RANDOM	RANDOM	APPROVED DRAWING/ MFG STANDARD NO DEFECT		IR	√	P	V	V	
6	COMPLETE ASSEMBLY	OVERALL DIMENSIONS, PROOF LOAD TEST AT 1.5 TIMES SWL (SAFE WORKING LOAD), HEIGHT OF LIFT, SWEVELING OF HOOK, LIGHT LOAD TEST FOR BRAKE CHECK, HEAD ROOM, MOVEMENT UNDER LOAD	MA	MEASURMENT/ LOAD TEST/ / VISUAL	100%	100%	IS 3832/ APPROVED DRAWING MFG-PROCEDURE		IR	√	P	W	V	
7	PAINTING & SURFACE PREPARATION	CLEANING SHADE & DFT OF PAINT	MA	VISUAL	RANDOM	RANDOM	APPROVED DRAWING		IR	√	P	V	V	
8	NAME PLATE	VERIFICATION	MA	VISUAL	100%	100%	-		IR		P	V	-	
9	PACKING	VERIFICATION	MI	VISUAL	100%	100%	AS PER APPROVED PACKING PROCEDURE		IR		P	-	-	
10	SPARES	VERIFICATION	MA	VISUAL	100%	100%	APPD QAP		IR	√	P	V/W	V	
11	REVIEW OF QA DOC	VERIFICATION	MA	VISUAL	100%	100%	APPD QAP		DOSSIER	√	P	V	V	
LEGENDS: *D: *RECORDS, INDENTIFIED WITH "TICK"(√) SHALL BE ESSENTIALLY INCLUDED BY SUPPLIER IN QA DOCUMENTATION, ** M: SUPPLIER/ MANUFACTURER/ SUB-SUPPLIER, B: MAIN SUPPLIER/ BHEL/ THIRD PARTY INSPECTION AGENCY, C: CUSTOMER, P: PERFORM, W: WITNESS, V: VERIFICATION, AS APPROPRIATE, E MA: MAJOR, MI: MINOR														

BIDDER/ SUPPLIER		BHEL					
Sign & Date		ENGINEERING			QUALITY		
			Sign & Date	Name		Sign & Date	Name
Seal		Prepared by:			Checked by:		
		Reviewed by:			Reviewed by:		


FOR CUSTOMER REVIEW & APPROVAL				
Doc No:				
	Sign & Date	Name	Seal	
Reviewed by:			Page 10 of 17	
Approved by:				

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PAINTING REQUIREMENT

Package	Condition	Surface Preparation	Primer Coat	No. of Coats	DFT (in Microns)	Intermediate Coat (in Microns)	No. of Coats	DFT (in Microns)	Final Coat	No. of Coats	DFT (in Microns)	Total DFT
CHAIN PULLEY BLOCKS WITH / WITHOUT TROLLEY	STEEL STRUCTURE	Surface preparation: Shot blast cleaning/ abrasive blast cleaning to SA21/2 (near white metal) 35-50 microns.	A two pack air drying epoxy polyamide resin based red oxide zinc phosphate.	2	30 µm per coat.	A two pack air drying high build epoxy resin based paint with MIO.	1 coat	100 µm per coat	A two pack air drying epoxy polyamide enamel suitably pigmented.	2 coat	40 µm. per coat	240 µ

COLOR SHADE				
SL. No	Item Description	Color Shade		Remarks
1	CPB cover	Golden Yellow shade 356 as per IS-5		

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PACKING REQUIREMENT

COMMON GUIDELINES FOR PACKING	
1	GENERAL:
1.1	The Components/Assemblies need to be packed suitably to avoid physical damage & corrosion during transit & storage. This packing shall be suitable for different handling operations and for the adverse conditions during transportation and during indoor / outdoor storage of materials.
1.2	All the equipment shall be suitably protected, coated, covered or boxed and crated to prevent damage or deterioration during transit, handling and storage at site till the time of erection. The Contractor shall be responsible for all loss or damage during transportation, handling and storage due to improper packing.
1.3	The identification marking indicating the name and address of the consignee shall be clearly marked in indelible ink on two opposite sides and top of each of the packages. In addition the Contractor shall include in the marking gross and net weight, outer dimension and cubic measurement.
1.4	Each package shall be accompanied by a packing note quoting specifically the name of the Contractor, the number and date of contract and names of the office placing the contract, nomenclature of contents and Bill of Material.

2.	TYPES OF PACKING:
	The following 5 types of packing have been standardized for packing of General Components/ Assemblies.
a	OP' - Open Type.
b	PP' - Partially Packed.
c	CP' - Crate/Box Packing - Components/Equipment requiring physical protection.
d	'CQ' - Case Packing – Machined components-Small & Medium Components/ Assemblies/ Equipment which require corrosion & physical protection.
e	'CR' - Case Packing – Electrical/Electronic Components/ Assemblies, which require special packing viz. Water Proof, Shock Proof etc...

3.	DESCRIPTION OF TYPES OF PACKING:
	The various types of packing, as standardized above, are described below.

3.1	'OP' - Open Type				
	In case, of components which are not affected by water & dust and do not require special protection, are generally not machined, shall be sent as open packages. However, these components may be sent in crates, wherever necessary.				

3.2	PP' - Partially Packed	
3.2.1	Components which need special protection at selected portions only shall be despatched partially packed. Machined surfaces should not be allowed to come directly in contact with the wood. Such surfaces should be protected with 100GSM(Colourless) Multi Layered Cross Laminated Polyethylene	
3.2.2	Film. All sharp corners and edges shall be protected by rubber mats to prevent damage to the polyethylene film.	

3.3	'CP' - Crate Packing	
	Assemblies/Components which need only physical protection from the point of view of handling shall be despatched duly packed in crates.	

3.4	'CQ' - Case Packing - Machined Components/Assemblies/Equipment	
3.4.1	Small and medium sized components/assemblies/equipment due to size/weight and to avoid handling and pilferage problems shall be packed in Case/Containers. Wherever required adequate quantity of silica gel or VCI Powder/Tablets, packed in thin muslin cloth cotton bags shall be suitably placed. Small machines/components of less weight shall be provided with suitable cushioning by Rubberised coir. The components inside the case shall be entirely covered with 100GSM(Colourless) Multi Layered Cross Laminated Polyethylene Film, wherever required. This may be prescribed for electronic parts/critical machined components/surfaces.	
3.4.2	For mechanical product like valves where motors are separately securely wrapped in polyethylene, the requirement of individual component wrapping shall be exempted.	

3.5	CR' - Case Packing - Electrical & Electronic Components/Assemblies	
	Delicate components likely to be damaged e.g. Gauges, Instruments etc. are to be wrapped in waxed paper or polyethylene air bubble film and packed in cartons. Adequate quantity of Silica gel packed in cotton bags of 100grams each are to be suitably placed in the cartons. The cartons shall be entirely covered with 100GSM(Colourless) Multi Layered Cross Laminated Polyethylene Film before being packed in the cases. VCI Powder/Tablets can be used as an alternative to Silica Gel.	

4	PREPARATION OF PACKING CASES
4.1	DIMENSIONS:
a)	Thickness of planks for Front, rear, top and bottom sides and binding, jointing battens shall be 25/20mm +2/-3 mm as per applicable drawings of the respective units/manufacturers.

b)	Width of all planks including the tongue shall be more than 125mm and after planing it shall be minimum 100mm.
c)	Minimum number of planks shall be used for a shook.
d)	Horizontal, vertical, diagonal planks shall be given for binding (number of such planks depend on the dimension of panel).
e)	Width of binding planks shall be minimum 100mm.
f)	Distance between any 2 binding planks shall be less than 750mm.
g)	diagonal planks shall be used in between vertical binding planks when distance between inner to inner of vertical planks is more than 750mm
h)	Distance of the outer edges of these planks from the edge of case shall be less than 250mm.
i)	Diagonal planks are not required for top planks and width side, if the width of pallet is less than 750mm.

4.2 HOOP IRON STRIPS	
	These are used for strapping the boxes. The width of the strips shall be 19+1mm and thickness 0.6+0.01mm. The material shall be free from rust. If sufficient nailing is done for bigger boxes, strapping need not be done.

4.3 BRACKETS	
	These brackets are used for nailing to the corners of cubicle boxes. The brackets shall be of mild steel of thickness min 2mm and width 25+1mm. The brackets shall be of "L" shape, the length of each side being 100+2mm. Two holes shall be provided towards the end of each side for screwing /nailing.

4.4 MULTI LAYERED CROSS LAMINATED POLYTHELENE FILM	
	100GSM (Colourless) Multi Layered Cross Laminated Polythelene Film are used to make covers to the jobs individually. The cross lamination gives qualities of extra toughness, together with flexibility and lightness coupled with good weather resistance to ultra violet rays.

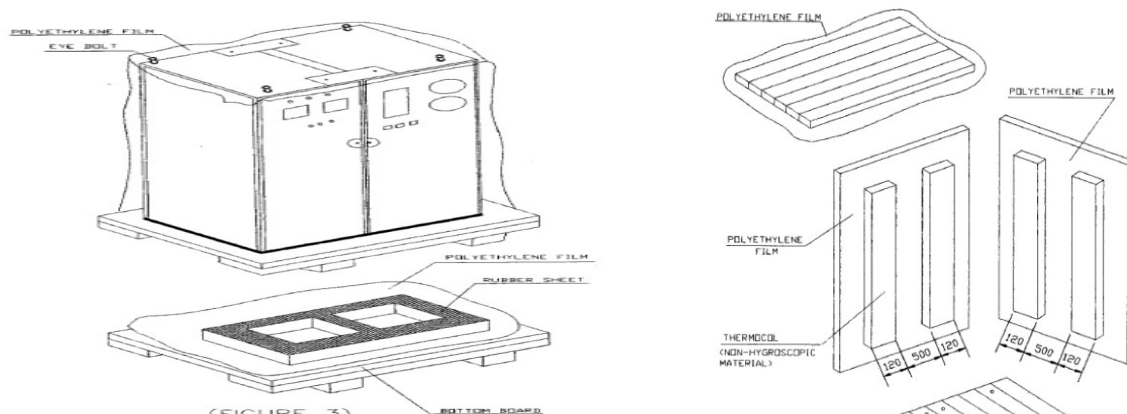
4.5 RUBBERISED COIR:	
	The rubberized coir is used as cushioning material. For the packing of loose items, items are to be arrested by using rubberized coir. For the packing of cubicles rubberized coir of thickness 25mm and width 75mm shall be used.

5 MULTI LAYER CROSS LAMINATED POLY FILM WHILE PACKING OF CUBICLES/CASING	
5.1	The inner surface of 4 sides of shook's shall be nailed with Multi-layer cross laminated poly film (as per 4.4) using blue nails wherever 2 pieces of Cross laminated poly film are used, the joint shall have an overlap of minimum 20mm.
5.2	The inner surface of top cover shall be nailed with Multi-layer cross laminated poly film. This sheet shall project outside on 4 sides by at least 100mm and shall be nailed properly on sides. Joining of sheets should have overlap of minimum 20mm.
5.3	The cubicles shall be covered with Multi-layer cross laminated poly film.

6 PACKING OF LOOSE ITEMS/SPARES	
6.1	Inner surfaces of all 6 sides shall be lined with Multi Layered Cross Laminated Polythelene Film (as per clause 5.4) using blue nails.
6.2	Rubberized coir of minimum 25mm thickness and 100 mm width shall be nailed to inner surfaces of bottom and 4 sides of box.
6.3	Internal packing: Items that go into the box shall be packed using 100GSM, (Colourless) Multi Layered Cross Laminated Polyethylene Film. Any space left between the job and the sides and the top of the box shall be filled with rubberized coir to get proper cushioning effect.
6.4	Certain items like transformers, reactors, breakers, etc., shall be bolted to the bottom of the box using bolts, nuts and washers.
6.5	Silica gel held in cotton bags shall be kept at proper places in the box.
6.6	Packing slip kept in polyethylene bag shall be placed in the box.
6.7	Two numbers of hoop iron strips shall be strapped tightly on the case using clips.
6.8	Stencil marking of various details and marking of various symbols shall be done as per BHEL instructions using indelible/non-washable marking ink.
6.9	Loose items to be kept inside the cubicle/casing

	- Other items which are given loose in addition to cubicle shall be packed in separate boxes.
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7 TYPICAL PATTERN OF WOODEN BOX	
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(FIGURE 2)

Figure 2

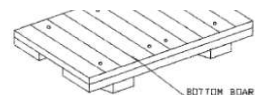


Figure 1

8	SEALED PACKING:
	Components sub-assemblies and assemblies sensitive to climatic conditions shall be packed seal tight. All the openings of the sensitive components, sub-assemblies and assemblies shall be blanketed to prevent the ingress of dust and moisture. The components sub-assemblies and assemblies are completely covered with 2 layers of polyethylene sheet. All sharp corners and
9	MARKINGS/STENCILINGS
9.1	"HANDLE WITH CARE", "FRAGILE DO NOT TURN OVER".
9.2	Besides the caution signs the product information's shall be stencilled of letters with 13mm to 50mm height.
9.3	In case of consignment consists of more than one package, each package shall carry its package no as given in shipping list. All caution signs shall be stencilled in high quality full glossy out door finishing paint red in colour (AA56126). All other markings shall be carried out in black enamel.
9.4	Caution signs & other markings shall be stencilled on both the end shooks & the side shooks.
9.5	Caution sign (for slinging) shall be stencilled only on side shooks at the appropriate place.
9.6	In case the size of package is small for using the stencils, then hand written letters/figures shall be allowed.

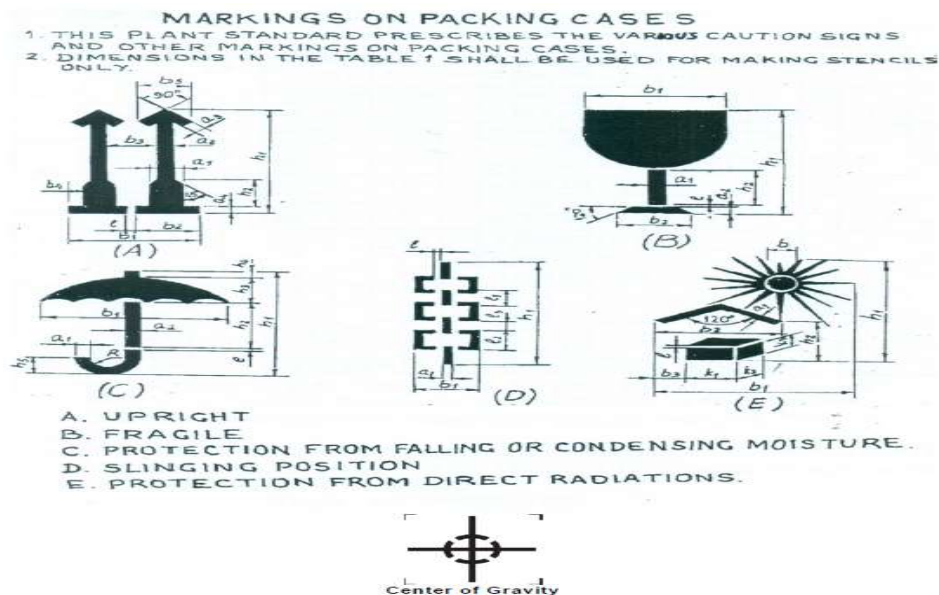


Figure 3

BHEL - <unit> - <location> - <pin>			
CONSIGNEE			
MATERIAL			
CUSTOMER REF.		MO. NO.	
DESPATCH ADVICE NOTE NO		CASE NO	
DIMENSIONS(MM) L x B x H		NET WT -KGS	GROSS WT -KGS
SPECIAL INSTRUCTIONS		HANDLE WITH CARE - KEEP DRY DO NOT DROP - DO NOT TILT	


Figure 4 - TYPICAL MARKING PLATE (225 X 170)



Figure 5

Easy spares [Initial and O&M] Traceability and Identification at units and as well as at sites:

10	STANDARD METHOD OF PACKING					
Table 1 - Standard Method of Packing						
S. No.	DESCRIPTION	CASE	CRATE	BUNDLE	BARE	DRUM

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DOCUMENTATION REQUIREMENT**DRAWINGS & DOCUMENTS TO BE SUBMITTED BY ALL THE BIDDERS ALONG WITH THE BID**

Sl. No.	DOCUMENT TITLE			
1	PQR CREDENTIALS			
2	COMPLIANCE SHEET			
3	"NO DEVIATION" CERTIFICATE DULY STAMPED AND SIGNED.			
	DRAWINGS & DOCUMENTS TO BE SUBMITTED AFTER AWARD OF CONTRACT			
Sl. No.	BHEL DRG.NO.	CUSTOMER DRG. NO.	DRAWING TITLE	SUBMISSION SCHEDULE -
PRIMARY DRGS (For approval)				
1	PE-V0-XXX-563-A101	During DDE	Manufacturing Quality Plan with Sub vendor list OF CHAIN PULLEY BLOCK	Rev-0 WITHIN 10 DAYS FROM PO. BHEL WILL COMMENT ON R0 WITHIN 7 DAYS FROM RECEIPT. REV-1 TO BE SUBMITTED BY VENDOR WITHIN 7 DAYS. BHEL WILL FURNISH APPROVAL IN 18 DAYS FROM RECEIPT.
2	PE-V0-XXX-563-A102	During DDE	GA Drawing for CHAIN PULLEY BLOCK along with painting details	
SECONDARY DRGS (For information)				
1	PE-V0-XXX-563-A106		O & M Manual OF CHAIN PULLEY BLOCK	Shall be submitted by vendor for information
2	PE-V0-XXX-563-A108		Erection procedure OF CHAIN PULLEY BLOCK	
3	PE-V0-XXX-563-A107		Mandatory spares list of CHAIN PULLEY BLOCK	Shall be submitted in form of BBU

Notes:-


1	Bidder to submit revised drawings complete in all respects incorporating all comments. Any incomplete drawing submitted shall be treated as non-submission with delays attributable to bidder's account. For any clarification/ discussion required to complete the drawings, the bidder shall himself depute his personal to BHEL for across the table discussions/ finalizations/ submissions of drawings.
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DRAWINGS & DOCUMENTS TO BE SUBMITTED AS FINAL/AS-BUILT DOCUMENT

Sl. No.	DOCUMENT TITLE	No. of prints (Sets)	No. of portable hard disk
1	APPROVED DOCUMENTS	3	2
2	AS BUILT DRAWINGS/	3	2
3	ERECTION MANUAL	3	2
4	O&M MANUAL	3	2
5	PERFORMANCE AND FURNTIONAL GUARANTEE TEST REPORTS	3	0

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COMPLIANCE CERTIFICATE	
The bidder shall confirm compliance with following by signing / stamping this compliance certificate (every sheet) and furnish same with the offer.	
1	The scope of supply, technical details, construction features, design parameters etc. shall be as per technical specification & there are no exclusions, other than those mentioned under exclusion.
2	Bidder shall submit QP in the event of order based on the guidelines given in the specification & QP enclosed therein. QP will be subject to BHEL / CUSTOMER approval & customer hold points for inspection / testing shall be marked in the QP at the contract stage. Inspection / testing shall be witnessed as per same apart from review of various test certificates/ Inspection records etc. This is within the contracted price without any extra implications to BHEL after award of the contract.
3	All drawings/ data-sheets / calculations etc. submitted along with the offer shall not be taken cognizance off.
4	<p>The offered materials shall be either equivalent or superior to those specified in the specification & shall meet the specified / intended duty requirements. In case the material specified in the specifications is not compatible for intended duty requirements then same shall be resolved by the bidder with BHEL during the pre-bid discussions, otherwise BHEL / Customer's decision shall be binding on the bidder whenever the deficiency is pointed out.</p> <p>For components where materials are not specified, same shall be suitable for intended duty, all materials shall be subject to approval in the event of order.</p>
5	All sub vendors shall be subject to BHEL / CUSTOMER approval in the event of order.
6	Guarantee for plant/ equipment shall be as per relevant clause of GCC / SCC / Other Commercial Terms & Conditions.
7	In the event of order, all the material required for completing the job at site shall be supplied by the bidder within the ordered price even if the same are additional to approved billing break up, approved drawing or approved Bill of quantities within the scope of work as tender specification. This clause will apply in case during site commissioning, additional requirements emerges due to customer and / or consultant's comments. No extra claims shall be put on this account.
8	Schedule of drawings submissions, comment incorporations & approval shall be as stipulated in the specifications. The successful bidder shall depute his design personnel to BHEL's / Customer's / Consultant's office for across the table resolution of issues and to get documents approved in the stipulated time.
9	As built drawings shall be submitted as and when required during the project execution.
10	The bidder has not tempered with this compliance cum confirmation certificate and if at any stage any tempering in the signed copy of this document is noticed then same shall be treated as breach of contract and suitable actions shall be taken against the bidder.


	TECHNICAL SPECIFICATION FOR CHAIN PULLEY BLOCKS WITH / WITHOUT TROLLEY		PE-TS-RC3-563-A001
			Issue No. 01
			Rev. No. 00
			Date : May 2024
11	Document approval by customer under Approval category or information category shall not absolve the vendor of their contractual obligations of completing the work as per specification requirement. Any deviation from specified requirement shall be reported by the vendor in writing and require written approval. Unless any change in specified requirement has been brought out by the vendor during detail engineering in writing while submitting the document to customer for approval, approved document (with implicit deviation) will not be cited as a reason for not following the specification requirement.		
12	In case vendor submits revised drawing after approval of the corresponding drawing, any delay in approval of revised drawing shall be to vendor's account and shall not be used as a reason for extension in contract completion.		

Signature of authorised Representative

Name and Designation :

Name & Address of the Bidder

Date

	PRE-QUALIFICATION REQUIREMENT		PE-PQ-RC-563-A001	
	(TECHNICAL)		DATE	28-05-2024
	PROJECT: RATE CONTRACT		REV NO	00
	PACKAGE: CHAIN PULLEY BLOCK			

1.0	Bidder should have capabilities for design, manufacturing and having testing of CHAIN PULLEY BLOCK of minimum 3T capacity.
2.0	<p>The Bidder has to submit following supporting documents meeting above mentioned pre-qualifying requirement</p> <p>(a) Copy of minimum one (1) performance certificate in English from end user along with copy of related Purchase Order (PO) or letter of intent (LOI) or letter of award (LOA) or work order (WO) specifying that the product/ equipment is running successfully for one (1) year from date of commissioning meeting the minimum pre-qualifying requirement.</p> <p>OR</p> <p>(b) Minimum two PO/ LOI /LOA/ WO placed with a minimum gap of six (6) months from same purchaser meeting the minimum pre-qualifying requirement.</p> <p>OR</p> <p>(c) Minimum one PO/ LOI /LOA/ WO after commissioning of first order from same purchaser meeting the minimum pre-qualifying requirement.</p> <p>OR</p> <p>d) Minimum three customer's/ third party's inspection reports/ test certificates /commissioning certificates meeting the minimum pre-qualifying requirement.</p>
3.0	Bidder shall submit design documents to substantiate technical parameters specified in PQR, if the same is not mentioned in performance certificate/purchase order.
4.0	Bidder should have manufactured and supplied hundred (100) nos. chain pulley blocks during the last two (2) preceding years from the date of bid submission. Relevant PO/LOI/LOA/WO along with respective Material dispatch clearance certificate (MDCC) / Material receipt certificate (MRC)/ Lorry receipt (LR)/ supply invoice shall be submitted to establish the above.
5.0	Bidder to submit all supporting documents in English. If documents submitted by bidder are in language other than English, a self-attested English translated document should also be submitted.
6.0	Notwithstanding anything stated above, BHEL reserves the right to assess the capabilities and capacity of the bidder to perform the contract, should the circumstances warrant such assessment in the overall interest of BHEL.
7.0	Consideration of offer shall be subject to customer's approval of bidders, if applicable.
8.0	After satisfactory fulfilment of all the above criteria/ requirement, offer shall be considered for further evaluation as per NIT and all the other terms of the tender.
9.0	Stockiest/trader/distributor/dealer/authorized agent/channel partner/ sales office or subsidiary of principle are not acceptable.

Shankar
28/5/24

K. G. K. Gupta
29/5/24

K. G. K. Gupta
29/5/24

Prepared By

Reviewed By

Approved By



PRICE SCHEDULE FOR CHAIN PULLEY BLOCK

RATE CONTRACT

Sl. No.	ITEM DESCRIPTION	UOM	QUANTITY	HSN CODE	UNIT EX- WORKS PRICE (DULY PACKED) (INR)	TOTAL EX- WORKS PRICE (DULY PACKED) (INR)	FREIGHT CHARGES WITHOUT GST @ % OF TOTAL EX- WORKS	FREIGHT CHARGES WITHOUT GST (INR)	APPLICABLE GST RATE % ON (TOTAL EX WORKS + FREIGHT)	GST (INR)	TOTAL F.O.R. SITE PRICE (INR)
1.0	Total lump sum firm price inclusive of all prevailing taxes, duties and other levies for SUPPLY PART & ESSENTIAL SPARES (if applicable) design (i.e. preparation and submission of drawing /documents including “As Built” drawings and O&M manuals), engineering, manufacture, fabrication, assembly, inspection / testing at Supplier's & sub-Supplier's works, painting, maintenance tools & tackles , fill of lubricants & consumables, ESSENTIAL spares (if applicable) forwarding, proper packing, shipment and delivery at site for project and package specified above complete with all accessories for the total scope defined as per BHEL NIT & tender technical specification PE-TS-RC3-563-A001, amendment & agreements till placement of order.										
	BREAK-UP OF SUPPLY PRICES GIVEN IN 1.0 ABOVE										
1.1	CPB with travelling trolley 0.5Ton, 6.0 M lift. (non-hazardous area)	No.	26	84251910							
1.2	CPB with travelling trolley 1Ton, 6.0 M lift. (non-hazardous area)	No.	32	84251910							
1.3	CPB with travelling trolley 2Ton, 6.0 M lift. (non-hazardous area)	No.	8	84251910							
1.4	CPB with travelling trolley 3Ton, 6.0 M lift. (non-hazardous area)	No.	2	84251910							
1.5	CPB without travelling trolley 1Ton, 6.0 M lift. (non-hazardous area)	No.	13	84251910							
1.6	CPB without travelling trolley 2Ton, 6.0 M lift. (non-hazardous area)	No.	3	84251910							
1.7	CPB without travelling trolley 3Ton, 6.0 M lift. (non-hazardous area)	No.	5	84251910							
1.8	CPB without travelling trolley 5Ton, 6.0 M lift. (non-hazardous area)	No.	3	84251910							
1.9	CPB without travelling trolley 8 Ton, 6.0 M lift. (non-hazardous area)	No.	3	84251910							
1.10	CPB without travelling trolley 10Ton, 6.0 M lift. (non-hazardous area)	No.	3	84251910							
1.11	CPB with travelling trolley 2Ton, 10.0 M lift. (Hazardous area)	No.	2	84251910							
1.12	Maintenance tools and tackles for CPB (suitable for all capacity)	set	15	84251910							
1.13	Essential Spares (as per Annexure - IA)	set	1	84311010							
1.14	Additional price for increase in lift per meter for load chain up to 5T capacity	per metre lift	1	73151210							
1.15	Additional price for increase in lift per meter for load chain above 5T to 10T	per metre lift	1	73151210							
1.16	Additional price for increase in lift per meter for hand chain hoisting up to 10T capacity	per metre lift	1	73151210							
1.17	Additional price for increase in lift per meter for hand chain travelling up to 10T capacity	per metre lift	1	73151210							
2	GRAND TOTAL (1.1 TO 1.17) in INR										

Note:

- 1) Supplier to quote the Prices in ‘figures’ along with corresponding ‘words’.
- 2) Prices quoted against sl. no. 1.1 to sl no. 1.11 shall be the base prices for CPBs. For Chain Pulley Block with higher lift, prices quoted against sl no. 1.14, 1.15, 1.16 & 1.17 shall be added.
- 3) Supplier to note that variation in order value shall be +/- 30%.



PRICE SCHEDULE FOR CHAIN PULLEY BLOCK - RATE CONTRACT

ANNEXURE - IA (ESSENTIAL SPARES)

SR. NO.	ITEM DESCRIPTION	UOM	QUANTITY	HSN CODE	UNIT EX- WORKS PRICE (DULY PACKED) (INR)	TOTAL EX- WORKS PRICE (DULY PACKED) (INR)	FREIGHT WITHOUT GST @ % OF TOTAL EX WORKS	FREIGHT CHARGES WITHOUT GST (INR)	APPLICABLE GST RATE % ON (TOTAL EX WORKS + FREIGHT)	GST (INR)	TOTAL F.O.R. SITE PRICE (INR)
1	ESSENTIAL spares as per Technical Specification no. PE-TS-RC3-563-A001, items list as indicated in the specification mentioned below:										
1.1	ESSENTIAL SPARES OF CHAIN PULLEY BLOCK FOR 0.5T, 6M CPB with TT, non-hazardous area										
1.1.1	Load chain Wheel	No	1	84311010							
1.1.2	Load chain stripping fork	No	1	84311010							
1.1.3	Hand Chain wheel	No	1	84311010							
1.1.4	Ratchet pawl	No	1	84311010							
1.1.5	Locking ratchet wheel	No	1	84311010							
1.1.6	Guide roller	No	1	84311010							
1.1.7	Brake disc	No	1	84311010							
1.1.8	Bearings of each type & size used in load chain wheels, lifting hook.	Set	1	84311010							
1.1.9	Bearings of each type & size used in trolley wheels.	Set	1	84311010							
1.1.10	Load chain (for hoisting)	per metre	1	84311010							
1.1.11	Hand chain (for hoisting)	per metre	1	84311010							
1.1.12	Hand chain (for travelling)	per metre	1	84311010							
1.1.13	Grooved pulley	Set	1	84311010							
1.1.14	Pinion	Set	1	84311010							
1.1.15	Shaft pin	Set	1	84311010							
1.1.16	Total (1.1.1 to 1.1.15)										
1.2	ESSENTIAL SPARES OF CHAIN PULLEY BLOCK FOR 1T, 6M CPB with TT, non-hazardous area										
1.2.1	Load chain Wheel	No	1	84311010							
1.2.2	Load chain stripping fork	No	1	84311010							
1.2.3	Hand Chain wheel	No	1	84311010							
1.2.4	Ratchet pawl	No	1	84311010							
1.2.5	Locking ratchet wheel	No	1	84311010							
1.2.6	Guide roller	No	1	84311010							
1.2.7	Brake disc	No	1	84311010							
1.2.8	Bearings of each type & size used in load chain wheels, lifting hook.	Set	1	84311010							
1.2.9	Bearings of each type & size used in trolley wheels.	Set	1	84311010							
1.2.10	Load chain (for hoisting)	per metre	1	84311010							
1.2.11	Hand chain (for hoisting)	per metre	1	84311010							
1.2.12	Hand chain (for travelling)	per metre	1	84311010							
1.2.13	Grooved pulley	Set	1	84311010							
1.2.14	Pinion	Set	1	84311010							
1.2.15	Shaft pin	Set	1	84311010							
1.2.16	Total (1.2.1 to 1.2.15)										
1.3	ESSENTIAL SPARES OF CHAIN PULLEY BLOCK FOR 2T, 6M CPB with TT, non-hazardous area										
1.3.1	Load chain Wheel	No	1	84311010							
1.3.2	Load chain stripping fork	No	1	84311010							
1.3.3	Hand Chain wheel	No	1	84311010							
1.3.4	Ratchet pawl	No	1	84311010							
1.3.5	Locking ratchet wheel	No	1	84311010							
1.3.6	Guide roller	No	1	84311010							
1.3.7	Brake disc	No	1	84311010							
1.3.8	Bearings of each type & size used in load chain wheels, lifting hook.	Set	1	84311010							
1.3.9	Bearings of each type & size used in trolley wheels.	Set	1	84311010							
1.3.10	Load chain (for hoisting)	per metre	1	84311010							
1.3.11	Hand chain (for hoisting)	per metre	1	84311010							
1.3.12	Hand chain (for travelling)	per metre	1	84311010							
1.3.13	Grooved pulley	Set	1	84311010							
1.3.14	Pinion	Set	1	84311010							
1.3.15	Shaft pin	Set	1	84311010							
1.3.16	Total (1.3.1 to 1.3.15)										
1.4	ESSENTIAL SPARES OF CHAIN PULLEY BLOCK FOR 3T, 6M CPB with TT, non-hazardous area										
1.4.1	Load chain Wheel	No	1	84311010							
1.4.2	Load chain stripping fork	No	1	84311010							
1.4.3	Hand Chain wheel	No	1	84311010							
1.4.4	Ratchet pawl	No	1	84311010							
1.4.5	Locking ratchet wheel	No	1	84311010							
1.4.6	Guide roller	No	1	84311010							
1.4.7	Brake disc	No	1	84311010							
1.4.8	Bearings of each type & size used in load chain wheels, lifting hook.	Set	1	84311010							
1.4.9	Bearings of each type & size used in trolley wheels.	Set	1	84311010							
1.4.10	Load chain (for hoisting)	per metre	1	84311010							
1.4.11	Hand chain (for hoisting)	per metre	1	84311010							
1.4.12	Hand chain (for travelling)	per metre	1	84311010							
1.4.13	Grooved pulley	Set	1	84311010							
1.4.14	Pinion	Set	1	84311010							
1.4.15	Shaft pin	Set	1	84311010							
1.4.16	Total (1.4.1 to 1.4.15)										
1.5	ESSENTIAL SPARES OF CHAIN PULLEY BLOCK FOR 2T, 10M CPB with TT for hazardous area										
1.5.1	Load chain Wheel	No	1	84311010							
1.5.2	Load chain stripping fork	No	1	84311010							
1.5.3	Hand Chain wheel	No	1	84311010							
1.5.4	Ratchet pawl	No	1	84311010							
1.5.5	Locking ratchet wheel	No	1	84311010							
1.5.6	Guide roller	No	1	84311010							
1.5.7	Brake disc	No	1	84311010							
1.5.8	Bearings of each type & size used in load chain wheels, lifting hook.	Set	1	84311010							
1.5.9	Bearings of each type & size used in trolley wheels.	Set	1	84311010							
1.5.10	Load chain (for hoisting)	per metre	1	84311010							
1.5.11	Hand chain (for hoisting)	per metre	1	84311010							
1.5.12	Hand chain (for travelling)	per metre	1	84311010							
1.5.13	Grooved pulley	Set	1	84311010							
1.5.14	Pinion	Set	1	84311010							
1.5.15	Shaft pin	Set	1	84311010							
1.5.16	Total (1.5.1 to 1.5.15)										
1.6	ESSENTIAL SPARES OF CHAIN PULLEY BLOCK FOR 1T, 6M CPB without TT, non-hazardous area										



PRICE SCHEDULE FOR CHAIN PULLEY BLOCK - RATE CONTRACT

ANNEXURE - IA (ESSENTIAL SPARES)

1.6.1	Load chain Wheel	No	1	84311010															
1.6.2	Load chain stripping fork	No	1	84311010															
1.6.3	Hand Chain wheel	No	1	84311010															
1.6.4	Ratchet pawl	No	1	84311010															
1.6.5	Locking ratchet wheel	No	1	84311010															
1.6.6	Guide roller	No	1	84311010															
1.6.7	Brake disc	No	1	84311010															
1.6.8	Bearings of each type & size used in load chain wheels, lifting hook.	Set	1	84311010															
1.6.9	Load chain (for hoisting)	per metre	1	84311010															
1.6.10	Hand chain (for hoisting)	per metre	1	84311010															
1.6.11	Grooved pulley	Set	1	84311010															
1.6.12	Pinion	Set	1	84311010															
1.6.13	Shaft pin	Set	1	84311010															
1.6.14	Total (1.6.1 to 1.6.13)																		
1.7	ESSENTIAL SPARES OF CHAIN PULLEY BLOCK FOR 2T, 6M CPB without TT, non-hazardous area																		
1.7.1	Load chain Wheel	No	1	84311010															
1.7.2	Load chain stripping fork	No	1	84311010															
1.7.3	Hand Chain wheel	No	1	84311010															
1.7.4	Ratchet pawl	No	1	84311010															
1.7.5	Locking ratchet wheel	No	1	84311010															
1.7.6	Guide roller	No	1	84311010															
1.7.7	Brake disc	No	1	84311010															
1.7.8	Bearings of each type & size used in load chain wheels, lifting hook.	Set	1	84311010															
1.7.9	Load chain (for hoisting)	per metre	1	84311010															
1.7.10	Hand chain (for hoisting)	per metre	1	84311010															
1.7.11	Grooved pulley	Set	1	84311010															
1.7.12	Pinion	Set	1	84311010															
1.7.13	Shaft pin	Set	1	84311010															
1.7.14	Total (1.7.1 to 1.7.13)																		
1.8	ESSENTIAL SPARES OF CHAIN PULLEY BLOCK FOR 3T, 6M CPB without TT, non-hazardous area																		
1.8.1	Load chain Wheel	No	1	84311010															
1.8.2	Load chain stripping fork	No	1	84311010															
1.8.3	Hand Chain wheel	No	1	84311010															
1.8.4	Ratchet pawl	No	1	84311010															
1.8.5	Locking ratchet wheel	No	1	84311010															
1.8.6	Guide roller	No	1	84311010															
1.8.7	Brake disc	No	1	84311010															
1.8.8	Bearings of each type & size used in load chain wheels, lifting hook.	Set	1	84311010															
1.8.9	Load chain (for hoisting)	per metre	1	84311010															
1.8.10	Hand chain (for hoisting)	per metre	1	84311010															
1.8.11	Grooved pulley	Set	1	84311010															
1.8.12	Pinion	Set	1	84311010															
1.8.13	Shaft pin	Set	1	84311010															
1.8.14	Total (1.8.1 to 1.8.13)																		
1.9	ESSENTIAL SPARES OF CHAIN PULLEY BLOCK FOR 5T, 6M CPB without TT, non-hazardous area																		
1.9.1	Load chain Wheel	No	1	84311010															
1.9.2	Load chain stripping fork	No	1	84311010															
1.9.3	Hand Chain wheel	No	1	84311010															
1.9.4	Ratchet pawl	No	1	84311010															
1.9.5	Locking ratchet wheel	No	1	84311010															
1.9.6	Guide roller	No	1	84311010															
1.9.7	Brake disc	No	1	84311010															
1.9.8	Bearings of each type & size used in load chain wheels, lifting hook.	Set	1	84311010															
1.9.9	Load chain (for hoisting)	per metre	1	84311010															
1.9.10	Hand chain (for hoisting)	per metre	1	84311010															
1.9.11	Grooved pulley	Set	1	84311010															
1.9.12	Pinion	Set	1	84311010															
1.9.13	Shaft pin	Set	1	84311010															
1.9.14	Total (1.9.1 to 1.9.13)																		
1.10	ESSENTIAL SPARES OF CHAIN PULLEY BLOCK FOR 8T, 6M CPB without TT, non-hazardous area																		
1.10.1	Load chain Wheel	No	1	84311010															
1.10.2	Load chain stripping fork	No	1	84311010															
1.10.3	Hand Chain wheel	No	1	84311010															
1.10.4	Ratchet pawl	No	1	84311010															
1.10.5	Locking ratchet wheel	No	1	84311010															
1.10.6	Guide roller	No	1	84311010															
1.10.7	Brake disc	No	1	84311010															
1.10.8	Bearings of each type & size used in load chain wheels, lifting hook.	Set	1	84311010															
1.10.9	Load chain (for hoisting)	per metre	1	84311010															
1.10.10	Hand chain (for hoisting)	per metre	1	84311010															
1.10.11	Grooved pulley	Set	1	84311010															
1.10.12	Pinion	Set	1	84311010															
1.10.13	Shaft pin	Set	1	84311010															
1.10.14	Total (1.10.1 to 1.10.13)																		
1.11	ESSENTIAL SPARES OF CHAIN PULLEY BLOCK FOR 10T, 6M CPB without TT, non-hazardous area																		
1.11.1	Load chain Wheel	No	1	84311010															
1.11.2	Load chain stripping fork	No	1	84311010															
1.11.3	Hand Chain wheel	No	1	84311010															
1.11.4	Ratchet pawl	No	1	84311010															
1.11.5	Locking ratchet wheel	No	1	84311010															
1.11.6	Guide roller	No	1	84311010															
1.11.7	Brake disc	No	1	84311010															
1.11.8	Bearings of each type & size used in load chain wheels, lifting hook.	Set	1	84311010															
1.11.9	Load chain (for hoisting)	per metre	1	84311010															
1.11.10	Hand chain (for hoisting)	per metre	1	84311010															
1.11.11	Grooved pulley	Set	1	84311010															
1.11.12	Pinion	Set	1	84311010															
1.11.13	Shaft pin	Set	1	84311010															
1.11.14	Total (1.11.1 to 1.11.13)																		
1.12	TOTAL (1.1.16+1.2.16+1.3.16+1.4.16+1.5.14+1.6.14+1.7.14+1.8.14+1.9.14+1.10.14+1.11.14)																		

NOTE:-

1. The lists of spares indicated are for the type equipment generally used in thermal power plants. If the design or type of equipment proposed by the Supplier is different, then the Supplier shall suit the spares list according to the type of equipment. However, the numbers or quantity of spares, indicated shall not be reduced.



PRICE SCHEDULE FOR CHAIN PULLEY BLOCK - RATE CONTRACT

ANNEXURE - IA (ESSENTIAL SPARES)

2. All essential spares shall be supplied as per the requirement of the specifications. In case any spare indicated in the specification is not applicable for particular equipment then suitable applicable alternate spare have been offered / shall be supplied without any financial implication.
3. Any change or variation in equipment or systems during detailed engineering stage which would cause changes / variations in the essential spares quantity, shall be supplied by Supplier without any commercial implications to BHEL.
4. For quantities indicated in percentage, fractions are to be rounded-off to next higher integer.
5. Any item which is "Not Applicable" in the above list and is found to be "Applicable" at a later date, shall be supplied by the Supplier without any extra cost to BHEL.
6. If any of the items of spares ordered is found to be not applicable during detailed engineering stage/execution stage, the Supplier will have to supply alternative items of spares.
7. "One (1) set of each type & size" is defined as 100% requirement for one CPB.

PROJECT:-						Framework Agreement (Rate Contract)			
PACKAGE :-						CHAIN PULLEY BLOCK			
TENDER ENQUIRY :-						PE/PG/RTC/E-7534/2024			
NAME OF THE BIDDER									
Sl. No.	Volume/ Section	Page No.	Clause No.	Technical Specification/Tender Document No	Complete Description of Deviation	Cost of withdrawal of deviation to be entered by the bidder in	Reference of price Schedule of which Cost of Withdrawal of Deviation is applicable	Nature of cost of withdrawal of deviation (Positive/Negative)	Reasons for quoting deviation
1	TECHNICAL DEVIATION								
1.01									
1.02									
1.03									
1.04									
1.05									
2	COMMERCIAL DEVIATION								
2.01									
2.02									
2.03									
2.04									
2.05									

NOTES:

1. Cost of Withdrawal of deviation will be applicable on the basic price (i.e. excluding taxes, duties & freight) only.
2. All the bidders have to list out all their technical & commercial deviations (if any) in details in the above format.
3. Any deviation not mentioned above and shown separately or found hidden in offer, will not be taken cognizance of.
4. Bidder shall submit duly filled unpriced copy of above format indicating "quoted" in "cost of withdrawal of deviation" column of the schedule above along with their Techno-commercial offer, wherever applicable. In absence of same, such deviation(s) shall not be considered and offer shall be considered in total compliance to NIT.
5. Bidder shall furnish price copy of above format along with price bid.
6. The final decision of acceptance/ rejection of the deviations quoted by the bidder shall be at discretion of the Purchaser.
7. Bidders to note that any deviation (technical/commercial) not listed in above and asked after Part-I opening shall not be considered.
8. For deviations w.r.t. Credit Period, Liquidated damages, Firm prices if a bidder chooses not to give any cost of withdrawal of deviation loading as per Annexure-VII of GCC, Rev-07 will apply. For any other deviation mentioned in un-priced copy of this format submitted with Part-I bid but not mentioned in priced copy of this format submitted with Priced bid, the cost of withdrawal of deviation shall be taken as NIL.
9. Any deviation mentioned in priced copy of this format, but not mentioned in the un-priced copy, shall not be accepted.
10. All techno-commercial terms and conditions of NIT shall be deemed to have been accepted by the bidder, other than those listed in unpriced copy of this format.
11. Cost of withdrawal is to be given separately for each deviation. In no event bidder should club cost of withdrawal of more than one deviation else cost of withdrawal of such deviations which have been clubbed together shall be considered as NIL.
12. In case nature of cost of withdrawal (positive/negative) is not specified it shall be assumed as positive.
13. In case of discrepancy in the nature of impact (positive/ negative), positive will be considered for evaluation and negative for ordering.

BHEL / PEM / CMM
SPECIAL CONDITIONS OF CONTRACT OF FRAMEWORK AGREEMENT (RATE CONTRACT)

SPECIAL CONDITION CONTRACT OF RATE CONTRACT FOR CHAIN PULLEY BLOCK

1. BHEL/PEM intends to enter into Framework Agreement (Rate Contract) for Chain Pulley Block package. Framework Agreement (Rate Contract) Validity for ordering shall be two years from the purchase order for Rate Contract.
2. BHEL-PEM will place purchase order for Framework Agreement (Rate Contract) only on suppliers who are registered with BHEL-PEM. Bidders who are not registered with BHEL-PEM needs to apply & get registered for subject package with PEM before Reverse Auction & hence they need to apply online for registration on PEM web portal & have to enclose acknowledgement with the bid documents else their bid may not be considered for evaluation.

The bidders who are not registered with BHEL-PEM may apply for registration in BHEL-PEM through Registration Portal available at <https://supplier.bhel.in/> . All credentials and/or documents duly signed & stamped related to registration has to be uploaded on the website & submit the application for registration. One set of hard copy filled-up SRF downloaded from Online Registration Portal duly signed & stamped has to be submitted.

3. Framework Agreement (Rate contract) is proposed to be done with 2 suppliers in ratio of 70:30 value wise at L1 FOR site price (Ex-works + freight) for this package. However, order for a project shall not be split.
4. Overall Quantity variation shall be $\pm 30\%$ of the contract value. Bidders be informed that the quantities indicated in the tender are tentative quantities. No minimum quantity is guaranteed by BHEL.
5. This tender is issued by BHEL PEM for Framework Agreement (Rate Contract) of Chain Pulley Block required at various BHEL project sites. All bidders will be informed the following –
 - a) As and when requirement arises, the concerned Project Groups of BHEL-PEM will place order directly on the supplier against the Framework Agreement (Rate Contract).
 - b) The drawings/ documents submission & approval, submission of Performance Security/Performance Bank Guarantee, submission of invoices, processing and release of payment after supply of material shall be dealt as per Framework Agreement (Rate Contract) contract terms and shall be directly done with Project Groups which has placed purchase order noted at sl.no. (a) above.
6. Details of consignee and project site information for dispatch of material shall be intimated at the time of placement of PO for specific project after finalization of RC
7. The items will be required against respective projects. Exact quantities and Project information shall be intimated while placing order for a specific project based on the Rate Contract.
8. The prices shall be FIRM during the period of two years. Any further extension can be done on mutual consent.
9. Inspection of materials shall be carried out by BHEL/CQA and or by Customer or by an authorized agency at manufacture's works before dispatch, if required. Dispatch of material to be done, only after receipt of BHEL/Customer MDCC. It is responsibility of vendor to for obtain Material Dispatch Clearance Certificate (MDCC) from BHEL or Customer as required before dispatch of material.

Vendor shall give inspection call on BHEL-CQS web site to applicable inspection agency with a copy of inspection call to BHEL-PEM for arranging Customer participation (if applicable) in inspection / Joint inspection on the proposed date with an advance notice of 15 working days. Inspection charges shall be paid by BHEL-PEM.

BHEL / PEM / CMM
SPECIAL CONDITIONS OF CONTRACT OF FRAMEWORK AGREEMENT (RATE CONTRACT)

Items have to be manufactured as per specification and supplied strictly in accordance with the approved BHEL / Customer's Drawings & Quality Plan. The items/ test certificate of items, which for any reason are not acceptable to BHEL / Customer, shall be required to be retested. No extra charge shall be payable on those account by BHEL.

10. Other terms and conditions shall be as per Standard Technical specification no. PE-TS-RC3-563-A001 Rev 00, GCC Rev 07 & Corrigenda 01 to GCC Rev 07, Enquiry letter.
11. This enquiry is subject to Conditions/ limits if any imposed in PMD/ Vendor registration.
12. Tentative quantity is given in enquiry.
13. Bidders to submit offer for RC of said items ONLINE via BHEL-GePNIC Portal only. Bidder to upload tender documents complete in all respects duly signed & stamped on each and every page by the authorized signatory of the bidder as a token of acceptance of all the terms and conditions of tender.
14. The Bidder along with its associate/ collaborators/ sub-contractors/ sub-vendor/ consultants/ service providers shall strictly adhere to BHEL Fraud Prevention Policy displayed on BHEL web site <http://www.bhel.com> and shall immediately bring to the notice of BHEL Management about any fraud as soon as it comes to their notice.

List of Projects for Rate Contract (Framework Agreement) of Chain Pulley Block

Sl. No	Project
1	2X800MW NTPC LARA STPP-STAGE II EPC
2	2 X 800 MW MEL SINGRAULI TPP -BANDHAURA
3	2 X 660 MW NTPC TALCHER TPP STAGE-III
4	1X800 MW TANGEDCO North Chennai-III FGD
5	4X210 MW + 3 X 500 MW NTPC KAHALGAON-FGD
6	3X200 + 3X500 MW NTPC RAMAGUNDAM TPP FGD
7	3X200+3X500+1x500 MW NTPC KORBA TPP-FGD
8	3x660 MW NPGCPL NABINAGAR STPP (FGD PKG)
9	4X250 MW BRBCL NABINAGAR FGD
10	2 X 250 MW NSPCL Bhilal TPP- FGD
11	2 X 800 MW NTPC SINGRAULI TPP
12	1x800 MW HPGCL Yamunanagar STPP (EPC)
13	2x660 MW RAGHUNATHPUR
14	3X800 MW NLC Talabira
15	2X500 MW NTPC SIPAT TPS, STAGE-II - FGD

Make In India certification

Letter head of Company/Cost Auditor/Statutory Auditor

Ref.

Date.....

To,
Bharat Heavy Electricals Limited
PEM, PPEI Building, Plot No 25,
Sector -16A, Noida (U.P)-201301

Subject: - Certification regarding local content

Reference: Enquiry No.

Name of Package: Framework Agreement (Rate Contract) of Chain Pulley Block

Dear Sir,

We hereby certify that items offered by us of “Framework Agreement (Rate Contract) of PVC Wires” meets the requirement in line with NIT and Public Procurement (Preference to Make in India), Order 2017 dated-15.06.2017, 28.05.2018 & 29.05.2019, 04.06.20 & 16.09.20 and subsequent orders if any.

Local Content:_____ %

We further confirm that details of location at which the local value addition will be done at our works located at
.....
..... (complete address of the works)

Yours truly

..... (authorized signatory of company)

..... (firm name)

Land Border Certificate

Dated:

Tender Title:

This has reference to order no. F.No.7/10/2021-PPD, Ministry of Finance, Department of Expenditure, Public Procurement Division. We, M/s _____, confirm the following:

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries; I certify that this M/s _____ is not from such a country.

I hereby certify that this M/s _____ fulfills all requirements in this regard and is eligible to be considered.

Signature with Company seal