

Bharat Heavy Electricals Limited

Industrial Valves Plant Goindwal Sahib (Punjab) Enquiry No. **2223-009E**

Date: 27.05.2022

NOTICE INVITING TENDER (NIT)

Dear Sir / Madam,

BHEL Goindwal Sahib (Punjab) invites offers from interested bidders / suppliers for submission of their offer through e-procurement mode at https://eprocurebhel.co.in/. Offers in any other mode will not be accepted. In case of any difficulty faced while registering on BHEL's e-Procurement portal developed by NIC, queries may be addressed to 0120-4001002, 0120-4001005 and 0120-6277787; email: support-eproc@nic.in. These details are also available on 'Contact Us' page of the portal.

Tender enquiry no. & date	2223-009E dated 27.05.2022		
Form of contract	Supply		
Tender / Item description	Supply of Wooden Packing Boxes & Planks on Annual rate contract basis (Only for MSEs)		
Material standard / Drawings	As per attached TDC(s) & Drawings		
Location(s) of Supply / Work	BHEL, Industrial Valve Plant, Goindwal Sahib, Dist. Tarn Taran -143422 (Punjab)		
Earnest Money Deposit (EMD)	Not Applicable		
Quotation parts	Two Part Bid		
Tender download / Bid submission start date	27.05.2022 (17:30 Hrs. IST)		
Tender download / Bid submission end date	07.06.2022 (12:00 Hrs. IST)		
Tender / Bid opening date	07.06.2022 (15:30 Hrs. IST)		
Make in India local content	50 %		
Validity of offer (In days)	75 days from techno commercial bid opening(Part I)		
Reverse auction	Applicable		
Integrity pact (IP)	Not Applicable		
Non-disclosure agreement	Not Applicable		
Contact person details	Sh. Sumeet Bansal, Sr. Manager 01859-224 628, sbansal@bhel.in Sh. Sahil Malhotra, Dy. Manager 01859-224 603, sahil@bhel.in		

BHEL IVP GOINDWAL SAHIB

SPECIAL TERMS AND CONDITIONS

(Tender enquiry no. 2223-009E dated 27.05.2022 Due date 07.06.2022) **ITEM: Wooden Packing Boxes and Planks (Only for MSEs)**

This tender is through e-procurement mode. Online bids are invited from only 'MICRO & SMALL ENTERPRISES (MSE's)' for supply of 'Wooden Packing Boxes & Planks' on 'Annual rate contract basis'. The relevant documents can be downloaded from https://eprocurebhel.co.in.

Tender enquiry no. & date	2223-009E dated 27.05.2022
Item Description	Supply of Wooden Packing Boxes & Planks on Annual rate contract basis
Tender download / Bid submission start date	27.05.2022 (17:30 Hrs. IST)
Tender download / Bid submission end date	07.06.2022 (12:00 Hrs. IST)
Tender / Bid opening date	07.06.2022 (15:30 Hrs. IST)
Quotation Parts	Two Part Bid
Documents required along with supply	As per attached TDC
Reverse Auction	Applicable

Note: Items in this tender are reserved for procurement from MSE firms only, in case, no response is received from MSE's then procurement will be made from Non-MSE firms.

Item: Supply of Wooden Packing Boxes & Planks on Annual rate contract basis.

Note: The wooden packing boxes can also be assembled by vendors in the premises of BHEL IVP Goindwal Sahib. Unloading of material at Main Stores of BHEL shall be arranged by BHEL.

PRE-QUALIFICATION TERMS

- 1. Vendor shall have following machines:
 - a. Wood Cutting Band Saw Machine/Wood table saw machine.
 - b. Wood working planer machine/Multi-purpose wood working machine/similar type of wood working machine which can make lap joints as per BHEL drawing.

Vendor has to attach list of machinery as per BHEL requirement. BHEL may ask for photo of machines in case of more clarifications.

- 2. "Bidders should be engaged in manufacturing of wooden boxes / wooden items. Bidder/s to submit upload undertaking / ISO certificate / documentary evidence as a proof for manufacturing of wooden boxes/ wooden items."
- 3. Vendor shall have capacity to supply minimum 1000 CFT of wood per month to BHEL Goindwal. CFT shall be calculated by adding volume (in cubic feet) of all planks used for making wooden boxes.
- 4. Supplier shall submit customer Purchase Orders and corresponding invoices for supply of Wooden boxes/wooden items with minimum cumulative value of Rs. 15,00,000 (Rs. Fifteen lakhs only) as proof. Date of Purchase Order/s date & corresponding invoices: should be 01.06.2019 or afterwards and upto the date of actual bid opening. All mentioned values are net of taxes.

Start-ups shall be exempted from this criteria of Purchase order and invoice submission without any relaxation in quality standards or technical parameters as per D.O. No. 5(4)/2016-BE-I dated

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15.02.2017. For claiming Start-Up exemption, vendors have to submit DPIIT (Dept. of Promotion of Industry and Internal Trade)/DIPP (Department for Industrial Policy and Promotion) recognition certificates.

BHEL may carry out evaluation of bidder's capability. BHEL reserves the right to accept/reject any offer based on evaluation of bidder's capability. BHEL may decide to visit the bidder(s) works. Any fact found deviating from bids during evaluation shall make the bidder liable to be disqualified.

SPECIAL TERMS

S1 SCOPE OF SUPPLY

Material shall be supplied as per the applicable Material Standard requirements/BPS/Drawing/IS and other requirement as mentioned in this tender document/Purchase Orders against this tender enquiry.

Material	Material description	DRG No/Rev No	TDC No/Rev No	Tentative Qty
GWB67035001	Box no 2	4-V-4000-071B3	TDC:WOODENBOX/06	50
GWB67035002	Box no 2A	4-V-4000-071B3	TDC:WOODENBOX/06	50
GWB67035003	Box no 3A	2-SH-BW-022/15	TDC:WOODENBOX/06	100
GWB67035004	Box no 4	2-SH-BW-022/15	TDC:WOODENBOX/06	25
GWB67035005	Box no 5	2-SH-BW-022/15	TDC:WOODENBOX/06	300
GWB67035006	Box no 6	2-SH-BW-022/15	TDC:WOODENBOX/06	225
GWB67035007	Box no 7	2-SH-BW-022/15	TDC:WOODENBOX/06	50
GWB67035008	Box no 9A	2-SH-BW-022/15	TDC:WOODENBOX/06	350
GWB67035009	Box no 10A	2-SH-BW-022/15	TDC:WOODENBOX/06	350
GWB67035010	Box no 13A	2-SH-BW-022/15	TDC:WOODENBOX/06	185
GWB67035011	Box no 14A	2-SH-BW-022/15	TDC:WOODENBOX/06	400
GWB67035012	Box no 14B	2-SH-BW-022/15	TDC:WOODENBOX/06	300
GWB67035013	Box no 15	2-SH-BW-022/15	TDC:WOODENBOX/06	150
GWB67035014	Box no 16	2-SH-BW-022/15	TDC:WOODENBOX/06	500
GWB67035047	Box no 16B	2-SH-BW-022/15	TDC:WOODENBOX/06	40
GWB67035044	Box no 16C	2-SH-BW-022/15	TDC:WOODENBOX/06	80
GWB67035052	Box no 17	2-SH-BW-022/15	TDC:WOODENBOX/06	20
GWB67035102	WOODEN PLANK 1""X4""X32" (INCHES)		TDC:WOODENBOX/06	1000
GWB67035103	WOODEN PLANK 2"X4"X28" (INCHES)		TDC:WOODENBOX/06	10000
GWB67035104	WOODEN PLANK 2"X4"X32" (INCHES)		TDC:WOODENBOX/06	8000
GWB67035105	WOODEN PLANK 2"X4"X36" (INCHES)		TDC:WOODENBOX/06	7000



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Material	Material description	DRG No/Rev No	TDC No/Rev No	Tentative Qty
GWB67035106	WOODEN PLANK 2"X4"X38" (INCHES)		TDC:WOODENBOX/06	7000
GWB67035107	WOODEN PLANK 2"X4"X50" (INCHES)		TDC:WOODENBOX/06	2000
GWB67035108	WOODEN PLANK 1"X4"X36" (INCHES)		TDC:WOODENBOX/06	1000
GWB67035109	WOODEN PLANK 2"X4"X58" (INCHES)		TDC:WOODENBOX/06	500

Above mentioned quantity is tentative and actual ordering may vary from above stated quantity.

S2 TECHNO-COMMERCIAL BID should contain all the documents/confirmations as per following details:

- Acceptance of Techno-Commercial terms and conditions shall be attached along with bid document. This can be attached either by signing each page of terms and conditions or a confirmation statement.
 - IF THE OFFER IS NOT ACCOMPANIED WITH ACCEPTANCE OF TERMS AND CONDITIONS, IT SHALL BE CONCLUDED THAT ALL THE TERMS AND CONDITIONS ARE ACCEPTABLE AND NO CLAIM WHATSOEVER SHALL BE ENTERTAINED LATER ON.
- b) The details/data/ information/ supporting certificates for MSE as per requirement. Udyam **Registration Certificate** to be submitted by bidder.
- Documents as per pre-qualification terms. c)
- d) Monthly CFT commitment to be mentioned in bid
- e) Duly filled Annexure-B (Declaration for RESTRICTIONS UNDER RULE 144(XI))

PRICE BASIS S3

- Rates shall be quoted on rate INR per piece basis & on FOR GOINDWAL basis. Comparison shall be made on landed rate per piece to BHEL Goindwal for deciding L1 offer. Evaluation shall be done line item wise.
- Unloading of material at Main Stores of BHEL shall be arranged by BHEL. b.
- Order of enquiry item sl. no. shall be maintained in the quotation.
- Quoted rates shall be firm during the currency of the contract.

S4 DELIVERY SCHEDULE

Delivery shall be within 75 days from date of Purchase Order.

S5 VALIDITY OF OFFERS

The offers shall be kept valid for 75 days from the actual date of techno-commercial bid (Part I) opening.

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GOINDWAL SAHIB

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S6 VENDOR REGISTRATION

Bidders, who are not currently on registered list of BHEL IVP Goindwal Sahib, may submit their application for vendor registration through online system on www.bhel.com. Direct link for online supplier registration is https://supplier.bhel.in/. This application submission can be done separately/immediately without waiting for the tender opening.

S7 SECURITY DEPOSIT

An amount equal to 1% of basic value shall be deducted each invoice. Interest free Security Deposit (full or partial after deduction of any amount chargeable from vendor) shall be refunded after successful completion of order(s) against this rate contract.

S8 LOADING

Rate Contract will be entered into requisite number of vendors to ensure that our requirement is met. For this, BHEL will give counter-offer at L1 rate to other bidders, except highest bidder, in order to have broader vendor base for ensuring timely delivery. In case there are only two qualified bidders, counter offer shall be issued to H1 bidder. Counter Offers will be given for all items as per loading clause.

100% Procurement of the tender value shall be made from MSE (Micro, Small Enterprises) firms. BHEL reserves the right to give counter-offer to any number of vendors except highest bidder. Loading shall be done on vendor as per below mentioned criteria subject to acceptance of counter offered L1 rates by other bidders.

Vendor	L1	L2	L3	L4
% Loading	40%	30%	20%	10%

After taking acceptance of counter offer from bidders: -

- If there are only 03 vendors against any item, then loading ratio applicable will be 50:30:20.
- If there are only 02 vendors against any item, then loading ratio applicable will be 60:40.

If no one accepts the counter offer for any particular any item/items, entire 100% quantity shall be loaded upon L1 bidder.

Above indicated criteria is liable to be monitored/controlled/regulated by BHEL from the first ordering itself. Subsequent ordering will be depending upon execution of orders by suppliers and our requirement.



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Once the rate contract is in place with various vendors based on acceptance of counter offer, while placing regular Purchase orders, BHEL will place orders for required quantity based BHEL delivery requirement, pending POs at any time with vendor (including previous RC POs) and vendor's monthly CFT commitment, delivery records and quality.

S9 VALIDITY OF CONTRACT

The rate contract will be in operation for one-year period from the date of finalization of this tender enquiry. All Purchase orders will be released in this contract period only.

However, BHEL reserves the right to terminate the contract earlier also if the performance of the VENDOR is not satisfactory. This rate contract can be extended again for period of one more year on mutual agreement.

These Special terms and conditions and General Contract Conditions (GCC) collectively form the part of tender terms and conditions. Any term in special tender terms and conditions will supersede the GCC.



BHARAT HEAVY ELECTRICALS LIMITED

Industrial Valve Plant: 433, Industrial Complex, Goindwal Sahib, Dist. Tarn Taran, Punjab-143422 (INDIA)

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1. INSTRUCTION TO BIDDER

Quotations shall be submitted before due date and time. Late offers are liable to be rejected, so please ensure to submit bid well within due date and time. Techno-commercial part will be opened on due date.

Based on evaluation of techno-commercial offers, Price bids of bidders who qualify from techno-commercial evaluation shall be opened. BHEL may decide to open the Price bid same day at 1700 hrs. If not opened on the same day, all qualifying bidders shall be notified for date of opening of Price bids by email/fax/post/courier/E-procurement system generated email.

1.1 Instruction to Bidder (In case of Non-E-Procurement / Paper/ Manual/ Hard Copy based tenders)

Sealed Tenders can be dropped in the tender box labeled as 'Tender box for MM contracts'. This tender box is located at the entrance of Admin block BHEL Goindwal. Fax (01859-222061) / E-Mail (tendermm_ivp@bhel.in) offers received in time shall be considered only when such offers are complete in all respects. In case of bulky tenders, please handover quotation to Sh. Rakesh Kumar/ SDGM - Head-MM or Sh. Sumeet Bansal / Sr. Manager - MM [Contact: 01859 224 615 / 628]. Bid can be send to following address:

BHEL, Industrial Valve Plant, #433, Industrial Complex, Goindwal Sahib, Distt. Tarn Taran, Punjab-143422.

1.2 Instruction to bidder (In case of E-Procurement)

- 1. Interested bidders / suppliers shall submit their offer through e-procurement mode at https://eprocurebhel.co.in/.
- 2. Offers in any other mode will not be accepted.
- 3. Procedure for Submission of Tender is available in the "Bidder Manual Kit" at E-tender portal https://eprocurebhel.co.in/ only.
- 4. In case of any difficulty faced while registering on BHEL's e-Procurement portal developed by NIC, queries may be addressed to 0120-4001002, 0120-4001005 and 0120-6277787; email: support-eproc@nic.in. These details are also available on 'Contact Us' page of the portal.
- 5. Before uploading scanned documents if any, the bidders shall sign on all the statements, documents, certificates uploaded by him, owning responsibility for their correctness / authenticity.
- 6. **Disclaimer clause:** Neither the Organization (Bharat Heavy Electricals Ltd.) nor the service provider is responsible for any failure of submission of bids due to failure of internet or other connectivity problems or reasons thereof.

2. SCOPE OF SUPPLY

Material shall be supplied as per the applicable latest Technical Delivery Conditions (TDC)/ Material Standard requirements/BPS/Drawing and other requirement as given in the Tender Enquiry. National & International material Standards shall have to be arranged by vendors themselves. Latest applicable revisions of standards/procedures to be referred.

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All required tests as called in referred material standard/BHEL/TDC/drawing etc. shall be carried out by vendor at no extra cost. Material Test Certificates (MTC), inspection reports and Compliance/Guarantee Certificate are to be provided along with the supplies.

3. PRICE BASIS

- 1. Order of enquiry item sl. no. shall be maintained in the quotation.
- 2. The rates quoted shall be firm and fixed. No price variation is proposed and allowed.
- 3. Rates quoted should be FOR BHEL Goindwal basis. The offers quoted on other than FOR Goindwal basis are liable to be rejected.

In case bidder has quoted Ex-works prices, then he/she will be given an opportunity to accept price basis as FOR Goindwal either by accepting delivery as FOR Goindwal in same quoted price or by providing loading factor on his/her quoted ex-works prices to make them FOR prices.

Variation in GST or any other statutory levies during contractual delivery period shall be to BHEL's account.

4. DISCREPANCY IN WORDS AND FIGURES

- 1. If, in the price structure quoted for the required goods/ services/ works, there is discrepancy between the unit price and the total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly, unless in the opinion of the purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price corrected accordingly.
- 2. If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
- 3. If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject of (a) and (b) above.
- 4. If there is such discrepancy in an offer, the same shall be conveyed to the bidder with target date upto which the bidder has to send his acceptance on the above lines and if the bidder does not agree to the decision of the purchaser, the bid is liable to be ignored.
- 5. Bids should be free from correction, overwriting, using corrective fluid, etc. Any interlineation, cutting, erasure or overwriting shall be valid only if they are attested under full signature(s) of person(s) signing the bid else shall be liable for rejection.
- 6. All overwriting/cutting, etc will be numbered by bid opening officials and announced during bid opening.

5. EVALUATION IN CASE OF MORE THAN ONE L-1 BIDDER

In the course of evaluation, if more than one bidder happens to occupy L1 status, effective L1 will be decided by soliciting discounts from the respective L1 bidders.

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In case more than one bidder happens to occupy the L1 status even after soliciting discounts, the L1 bidder shall be decided by a toss / draw of lots, in the presence of the respective L1 bidder(s) or their representative(s).

Ranking will be done accordingly. BHEL's decision in such situations shall be final and binding.

6. REVERSE AUCTION

In case, it is declared in special terms & conditions of tender enquiry that RA is applicable for the NIT, then RA will be conducted as per following clause:

BHEL shall be resorting to Reverse Auction (RA) (Guidelines as available on https://www.bhel.com/) for this tender. RA shall be conducted among the techno-commercially qualified bidders as per RA guidelines.

Price bids of all techno-commercially qualified bidders shall be opened and same shall be considered for RA. In case any bidder(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.

7. VALIDITY OF OFFERS

The offers shall be kept open for acceptance 'for number of days mentioned in special terms and conditions' from the date of opening of the tender. In case of tender extension, the bid validity shall be considered from the date of tender opening.

8. SUPPLIED MATERIAL ADJUSTMENT

Item/s pending in previous PO has to be billed in previous PO only. Otherwise, BHEL will be free to adjust the supplies in previous PO. Any implication of tax will be on supplier's account. For this it is desirable that vendor should reconcile the pending PO statement every month/frequently with BHEL. Vendor can also view these details at Portal (https://trichy.bhel.com/mm/index.jsp).

9. DELIVERY SCHEDULE

Supplies shall be affected and completed as per schedule mentioned in special terms and conditions. Further, BHEL may release delivery schedule from time to time based upon our requirement with mutual understanding. Vendor shall be required to complete the order as per the BHEL schedule requested. Commencement of delivery period shall be reckoned from the date of PO / LOI or any other agreed milestone.

10. LIQUIDATED DAMAGES (LD) FOR LATE DELIVERY

Time is the essence of the contract'. As such, delivery of goods specified in the Purchase Orders released under the scope of this contract shall be made within the time limit prescribed therein. Penalty for late delivery will be applicable @0.5% of the undelivered portion per week of the delay or part thereof subject to a maximum of 10% of the undelivered potion.



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In case of Ex-works delivery terms for indigenous supplies, the document date (Invoice/Challan date) in Goods Receipt (GR) document shall be reckoned for LD deduction. In case of FOR Delivery terms for Indigenous supplies, the posting date in GR document shall be reckoned for LD deduction.

If any vendor does not accept LD $\frac{1}{2}$ % of the supply for each week of delay subject to a maximum of 5%, their offer is likely to be rejected by BHEL and the price bid shall not be opened. Bidders accepting for 10% LD shall not be loaded on account of LD. However, bidders who offer any other % LD [between 5% to 10%] shall be loaded @ % deviation from 10% and their accepted %. e.g. If a bidder accepts for a max of 7% LD only, their offer would be loaded @ 3% (10-7=3).

BHEL reserves the right to receive or not receive the material after the due date of PO. Applicable GST shall also be recovered from suppliers/contractors on LD amount. For this Debit note will be issued by BHEL indicating the respective supply invoice number.

11. PAYMENT TERMS

- 1. Due payment against supplies received shall be due after 30 days of receipt and acceptance of material and shall be paid within next 15 days' period. In case of any deviation from standard payment term mentioned, BHEL at its discretion may load on the item price at "Base rate of SBI (as applicable on the date of bid opening; Techno-commercial bid opening) + 6% shall be considered for loading for the period of relaxation sought by bidders.
- 2. Documents to be submitted (if applicable)
 - i) Tax invoice (Invoice shall be GST compliant and should contains all the required information such as GST No, HSN code etc.)
 - ii) Transporter copy along with material/consignment.
 - iii) Material Test Certificates (MTC) and
 - iv) Compliance Certificate.
- 3. GST registration number is to be submitted by qualified vendor as per GST law.
- 4. It is mandatory to mention proper material codes in the invoices and separate invoices to be raised for different POs.
- 5. BHEL releases payment through EFT mode ONLY. Necessary details may please be submitted by filling required format before release of payment.

12. TAXES & DUTIES

Payment of GST portion will be released to vendor only upon completion of statutory requirement and further subject to following:

- a) Vendor declaring such invoice in his GSTR-1and
- b) Receipt of goods and Tax invoice by BHEL and
- c) Confirmation of payment of GST thereon by vendor on GSTN portal.
- d) Above is subject to receipt of goods/service and tax invoice thereof along with vendor declaring invoice in his return and paying GST within timeline prescribed for availing ITC by BHEL.

Following may please be noted for availing Input Tax Credit (ITC) by BHEL:





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- 1. Since ITC can be availed only when BHEL is in possession of GST Tax invoice and after receipt of goods. Thus, vendor to ensure timely dispatch of goods and Tax invoice. It may be noted that in case of any delay in receipt of Tax Invoice and/or receipt of goods, the ITC availment by BHEL will get delayed thus entailing additional cash outflow & may even get denied if ITC availment timelines are breached.
- 2. Further ITC can be availed only when vendor has declared such invoice in his outward supply Return GSTR-1 and after GST thereon has been paid by him at the time of filing of monthly Return.
- 3. If GST credit is delayed/denied to BHEL due to non/delayed receipt of goods and/or tax invoice or expiry of timeline prescribed in GST law for availing such ITC, or any other reasons not attributable to BHEL, GST amount shall be recoverable from vendor along with interest levied/leviable on BHEL.
- 4. Further, in case vendor delays declaring such invoice in his return and GST credit availed by BHEL is denied or reversed subsequently as per GST law, GST amount paid by BHEL towards such ITC reversal as per GST law shall be recoverable from vendor/contractor along with interest levied/leviable on BHEL.

13. LIABILITY UNDER REVERSE CHARGE (RCM)

Any GST liability arising on BHEL under Reverse Charge (RCM) before actual receipt of goods and/ or Invoice thereof would be subject to recovery of Interest leviable for the period between the date of such liability and actual date of eligibility of ITC based on receipt of goods, receipt of Invoices and other conditions specified in GST Law as applicable.

14. ACCESS TO MANUFACTURING PREMISES

While Purchase Orders placed on the vendor are under execution, authorized representatives of BHEL shall be allowed free access to the manufacturing facilities for the purpose of inspection or monitoring the progress of purchase orders. This access will also be extended to representatives of BHEL's customers accompanying the authorized representative/s of BHEL (which shall be intimated in advance), if our contractual requirements with our customers call for the same.

15. INSPECTION

- 1. The seller shall give adequate notice, of 1 week or as mutually agreed period, in writing to the Purchaser about the date and place at which the goods will be ready for inspection/ testing, as provided for in the contract.
- 2. Purchaser or his authorized representative shall be entitled to carry out inspection of material and workmanship/Surveillance Audit at Seller's premises or at his sub-contractor's premises at all reasonable times during execution of contract; Such inspection, examination and testing, if made, shall not absolve the Seller from his obligations under the contract. No additional charges shall be claimed for such inspections. Moreover, all required infrastructure (testing, tools etc) have to be arranged by supplier.
- 3. Any inspection carried out before supply by vendor/incoming stage at BHEL notwithstanding, if any defect/non-conformity is noted during processing, the same shall be attended/replaced by vendor at no extra cost.
- 4. BHEL representative from unit or CQ is authorized to carry out audits along with TPIA at vendor's works before clearing the items for dispatch.





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5. Necessary tooling including thread gauges etc. have to be arranged by vendor. Only in exceptional cases, based on BHEL discretions item/nature, BHEL may consider request to provide gauges if available with BHEL. But in no case this shall be linked with delivery of material.

16. GUARANTEE / WARRANTEE AND CORRESPONDING REPAIR / REPLACEMENT OF GOODS

Goods shall comply with the specifications for material, workmanship and performance. Vendor shall give a guarantee / warrantee of 18 months from the date of dispatch or 12 months from date of receipt, against manufacturing defects, whichever is earlier. In case of non-acceptance of this term, bid will be rejected.

If the material is rejected due to defective workmanship during inspection or at the time of actual use, within the guarantee / warrantee period, the rejected material shall be replaced by the supplier. Corresponding quantity shall be treated as unsupplied against respective purchase order till replacement is received at BHEL. If the material is found defective and rejected during use for which payment has already been released the rejected quantity shall be supplied free of cost by the vendor within a month of intimation of the rejection by BHEL.

Lifting of rejected material is under Supplier's scope. BHEL will inform related invoice, quantity etc. to supplier. Supplier is expected to give the plan to lift and advance intimation when visiting to lift the material. Material should be lifted within one month from date of intimation. After one-month BHEL will not be responsible for rejected material. BHEL may decide to send the rejected material on to Pay basis to supplier. Any leniency/ unresponsiveness/delay on part of supplier may lead to appropriate action by BHEL. Any request to postpone in written may be considered but replacement should not be linked with lifting of material.

17. LOI (LETTER OF INTENT)

BHEL may issue LOI prior to the PO for any reason whatsoever. The LOI in such cases is to be treated as PO for all practical purposes and all the Terms & Conditions of the tender shall be applicable from the date of issue of LOI.

18. SUB-CONTRACT

The purchase order or any part thereof shall not be sub-contracted, assigned or otherwise transferred without previously obtaining the BHEL's consent in writing.

19. RISK PURCHASE

BHEL at its option will be entitled for withdrawal of portion of balance supply or termination of the contract and to purchase elsewhere at the risk and cost of the supplier either the whole of the goods or any part which the supplier has failed to deliver or dispatch within the time stipulated as per contract delivery terms. The supplier shall be liable for losses, which BHEL may sustain by way of such risk purchases.





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The value shall be calculated as follows:

Risk & Cost Amount= $[(A-B) + (A \times H/100)]$ Where,

A= Value of Balance scope of Supply (*) as per rates of new contract

B= Value of Balance scope of Supply (*) as per rates of old contract being paid to the supplier at the time of termination of contract i.e. inclusive of PVC, if any.

 $\mathbf{H} = \mathbf{O}$ verhead Factor shall be taken as 5

In case (A-B) is less than 0 (zero), value of (A-B) shall be taken as 0 (zero).

* Balance Scope of Supply: Difference of Contract Quantities and Executed Quantities as on the date of issue of Letter for 'Termination of Contract', shall be taken as balance scope of Supply for calculating risk & cost amount.

Contract quantities are the quantities as per original contract. If, Contract has been amended, quantities as per amended Contract shall be considered as Contract Quantities.

20. FORCE MAJEURE

If at any time during the continuance of the contract, the performance in which or in any part by either party of any obligations under the contract are prevented or delayed by reason of any war, hostilities, acts of public enemy, civil commotion, sabotage, fires, explosions, epidemics, quarantine restrictions, or acts of God (hereinafter referred to "an events" then provided the notice of happening of any such event is given by either party to the other within 21 days of the occurrence thereof, neither party shall by reason of such event be entitled to terminate the contract nor shall either party have any claim for damages against the other in respect of such non-performance and delay in performance and delivery under the contract shall be resumed as soon as practicable after such event has come to an end or ceased to exist. If the performance in whole or part of any obligation under the contract is prevented or delayed by reason of any such event, claims of extension of time shall be granted for periods considered reasonable by BHEL subject to prior notification by the vendor to BHEL of the particulars of the event and supply to BHEL, if required, of any supporting evidence. Any waiver of time in respect of partial installment shall not be deemed a waiver of time in respect of remaining deliveries.

21. CLARIFICATIONS

The correspondence exchanged against the tender from both tenderer and BHEL through email/e-procurement are considered as valid document legally though it is not signed. It is treated as valid confirmations made on behalf of the respective company and very much comes under the legal ambit of the business transaction and hence it is binding on both the parties to the business. Any transaction pertaining to the tender from both the parties of business done round the clock irrespective of the office or business hours of the companies, are valid legally and binding on both the parties. This applies to the extent only in such cases where deadline time for transaction is not specifically declared by either or both the parties to the business.





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22. PREFERENCES FOR MICRO AND SMALL ENTERPRISES (MSEs)

Preferences as mentioned in "Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012" & "Public Procurement Policy for Micro and Small Enterprises (MSEs) Amendment Order, 2018", or as per latest guidelines issued by government shall be given to Micro and Small enterprises.

Main points which are mentioned in the above orders are as follows:

- 25% Procurement of the tender value shall be made from MSE (Micro, Small Enterprises) firms.
- 25% of the 25% quantity (i.e. 6.25% of the tender quantity) offered to the MSE's shall be reserved for MSE's owned by SC/STs. Failure to participate by any MSE owned by SC/ST's; this 6.25% quantity shall be procured from other MSEs.
- 3% from within the 25% quantity offered to the MSE's shall be reserved for women owned MSE's. Failure to participate by any MSE owned by women; this 3% quantity shall be procured from other MSEs.
- EMD shall be exempted for MSE's. All these benefits are subject to production of all statutory documents
- In tender, participating Micro and Small Enterprises quoting price within price band of L1+15 per cent shall also be allowed to supply a portion of requirement by bringing down their price to L1 price in a situation where L1 price is from someone other than a Micro and Small Enterprise and such Micro and Small Enterprise shall be allowed to supply up to 25 per cent of total tendered value. In case of more than one such Micro and Small Enterprise, the supply shall be shared proportionately (to tendered quantity).

MSE suppliers can avail the intended benefits only if they submit **Udyam Registration Certificate** along with the offer. No other document shall be considered for availing MSE benefits. Non-submission of such document will lead to consideration of their bid at par with other bidders. No benefit shall be applicable for this enquiry if any deficiency in the above required documents is not cleared before price bid opening. If the tender is to be submitted through e-procurement portal, then the above required document is to be uploaded on the portal.

23. PREFERENCE TO MAKE IN INDIA

This procurement shall be governed by notification no. P-45021/2/2017-PP (BE-II) dated 16.09.2020 of Government of India issued by DPIIT and subsequent circulars issued afterwards. Accordingly, the minimum local content, the margin of purchase preference and the procedure for purchase preference to make in India shall be adhered.

24. RESTRICTIONS UNDER RULE 144(XI) OF THE GENERAL FINANCIAL RULES (GFRs), 2017

All provisions of Order No. F.No.6/18/2019-PPD of Department of Expenditure (DoE) shall be applicable for this tender enquiry (Order copy is available at https://doe.gov.in/procurementpolicy-divisions). Accordingly, any bidder from a country which shares a land border with India (except the countries to which the Govt. of India has extended lines of credit or in which the Govt. of India is





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engaged in development projects for which list is available at https://www.mea.gov.in/) will be eligible to bid in this tender only if the bidder is registered with the Competent Authority as specified in Annex I of the said Order of DoE.

Updated list of the countries to which lines of credit have been extended or in which development projects are undertaken are available on the Ministry of External affairs website (https://www.mea.gov.in/)

For the purpose of this order, definition of Bidder from a country which shares a land border with India shall be same as defined in the Annex III of the said order.

Registration with the competent authority as stipulated in the said order is responsibility of bidder. Bidder has to submit a certificate certifying following along with offer:

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that bidder (.... Name of Bidder) is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that bidder (.....Name of bidder) fulfils all requirements in this regard and is eligible to be considered"

If the bidder is from such country which shares a land border with India evidence of valid registration by the Competent Authority shall also be attached along with offer."

25. DISPUTES

In the event of any dispute and/or difference arising between the Vendor and BHEL as to interpretation and/or execution of the contract and/or the respective rights and liabilities of the parties, such disputes and/or differences shall be referred to the sole arbitrator nominated by BHEL. The provisions of the Indian Arbitration Act and the rules there under shall apply to such arbitration. The award passed by the arbitrator shall be final and conclusively binding on all the parties.

26. JURISDICTION

The court of the place from where the purchase order is issued during the contractual period shall alone have jurisdiction to decide any dispute arising out of or in connection with the purchase order.

27. BANNED FIRMS

The offers of the bidders who are on the banned list as also the offer of the bidders, who engage in the services of the banned firms, shall be rejected. The list of banned firms is available on BHEL website https://www.bhel.com/.

28. FRAUD PREVENTION POLICY

The Bidder along with its associate / collaborators / sub-contractors / sub-vendors / consultants / service providers shall strictly adhere to BHEL Fraud Prevention Policy displayed on BHEL website https://www.bhel.com/ and shall immediately bring to the notice of BHEL management about any fraud or suspected fraud as soon as it comes to their notice.





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29. PREVENTIVE CHECKS TO ELIMINATE SUSPECTED CARTEL FORMATION

The Bidder declares that they will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other Bidder(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 Bidder is found having indulged in above activities, suitable action shall be taken by BHEL as per extant policies/ guidelines.

30. SUSPENSION OF BUSINESS DEALINGS WITH DEFAULTERS

The offers of the bidders who are under suspension as also the offers of the bidders, who engage the services of the banned firms, shall be rejected. The list of banned firms is available on BHEL web site https://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 Bidder(s) in a transparent and fair manner, and with equity.

- 1.2. Commitment by Bidder/ Supplier/ Contractor:
- 1.2.1. The bidder/ supplier/ contractor commits 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 bidder/ 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 bidder/ 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 bidder/ supplier/ contractor during pre-tendering/ tendering/ post tendering/ award/ execution/ post-execution stage indulges in mal-practices, 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 bidder/ supplier/ contractor as per extant guidelines of the company available on https://www.bhel.com/ and/or under applicable legal provisions

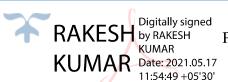


BHARAT HEAVY ELECTRICALS LIMITED

Industrial Valve Plant: 433, Industrial Complex, Goindwal Sahib, Dist. Tarn Taran, Punjab-143422 (INDIA)

31. GENERAL

- 1. BHEL will not be bound by any power of attorney granted by the vendors or by changes in the composition of the firm made subsequent to the execution of the contract. They may, however, recognize such power of attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the vendor concerned.
- 2. BHEL reserves the right to extend the due date of opening, which shall be informed. Validity of offer shall be deemed to be revised accordingly.
- 3. BHEL reserves the right to accept or reject any part or whole of the tender of a bidder by assigning a valid reason thereof. BHEL reserves the right to cancel the tender without assigning any reason thereof and without any obligation before any commitment.
- 4. Acceptance of all terms and conditions, in the form of signed copy of T&C or confirmation separately written, shall be submitted along with quotation. If nothing is mentioned, it shall be concluded that terms and conditions are acceptable.
- 5. BHEL may increase/decrease item/s based on BHEL requirement before price bid opening. Suitable price implication may be asked from suppliers.
- 6. BHEL may drop item/items from tender at any stage of tender before placing PO. BHEL may also delete PO with consent with supplier within delivery date of PO.
- 7. After releasing PO, it is assumed that supplier has accepted PO if we do not receive acknowledgement from supplier within 5 days of date of PO.
- 8. In case of unscheduled holiday on opening day of tender, the next working day will be treated as scheduled prescribed day of opening of tender.
- 9. On the due date of tender opening, only technical bids will be opened. The opened technical bids will be evaluated by us and clarifications required, if any, will be called for from the bidders on technical and commercial points. If no reply is received from the vendor for the clarification raised by BHEL with in the final cut-off date, those vendors offer will be processed with the documents available / submitted against this tender. Offers not meeting the required specification and technical condition will be summarily rejected. The price bids of technically suitable bidders will be opened on a later date with prior intimation to techno-commercially suitable bidders.
- 10. Ranking L-1, L-2 etc. shall be done for individual item for the techno-commercially acceptable offers on landed cost to BHEL, IVP Goindwal basis and BHEL reserves the right to place order for individual items with different vendors.
- 11. BHEL reserves the right to negotiate with L1 vendor or re-float the tender for items where, L1 price is not the lowest acceptable price; BHEL reserves the right to increase or decrease the tender quantity.
- 12. If supplier is mentioning delivery destination within state/ outside state depending upon his location of factory, Free on Road etc. these are assumed as on FOR Goindwal. If supplier is wishing to give delivery on Ex works basis, then he has to clearly mention about it.
- 13. The bidder has to keep track of any changes by viewing the addendum / Corrigendum's issued by the Purchaser on time-to- time basis in the E-Procurement platform. The Company calling for tenders shall not be responsible for any claims/problems arising out of this.
- 14. Any term in special tender terms and conditions will supersede the GCC.



PART-I (TECHNO-COMMERCIAL BID)

(To be filled & signed by bidder & submit with offer as 'PDF' file only)

Tender enquiry no. & date	2223-009E dated 27.05.2022		
Tender description	Supply of Wooden Boxes & Planks		

Bidder must note following points:

- 1. This workbook is protected, except for cells where comments / confirmation is to be given by bidder.
- 2. Bidder is advised not to unprotect / tamper the sheet / alter the terms mentioned in the sheet.
- 3. Any alteration to terms mentioned by BHEL will be considered as tampering and bidder's offer shall be liable for rejection.
- 4. Bidders are advised to only fill the unprotected cells (shaded cells) by dropdown or writing the comments as applicable as their confirmation. Bidders are adviced to upload duly filled & signed 'PDF' file as techno-commercial (Part-I) bid'. Failure on the part of bidder in not returning this duly filled-up techno-commercial bid and / or submitting incomplete replies may lead to rejection of bidder's quotation.
- 5. All the commercial terms and conditions shall be indicated by vendor in this format only and nowhere else in his quotation. However, in case the space for vendor's reply is not sufficient against a particular question, the vendor shall furnish same by way of separate annexure / sheet attached to this questionnaire, indicating cross-reference of respective clauses.

		TECHNICAL CO	NDITION DETAIL	
Sl no.		Elements	Response	Remarks
1		of Wooden Boxes & Planks as per tender documents - (if selected 'Accepted with deviation', please mention)	Select from the drop down list	
		COMMERCIAL CON	DITIONS & DETAILS	
Sl no.		Elements	Response	Remarks (if any)
1	Delivery term: FOR conditions)	Goindwal Sahib Basis (refer tender terms &	Select from the drop down list	
2	IGST supply (%)	For Wooden Boxes	Select from drop down list	
_	1001 04441 (10)	For Wooden Planks	Select from drop down list	
3	SGST supply (%)	For Wooden Boxes	Select from drop down list	
3	SGS1 supply (70)	For Wooden Planks	Select from drop down list	
4	CCST supply (%)	For Wooden Boxes	Select from drop down list	
4	CGST supply (%)	For Wooden Planks	Select from drop down list	
5		itment. (CFT shall be calculated by adding volume (in nks used for making wooden boxes)	Please mention CFT	
6	Payment term: Due payment against supplies received shall be due after 30 days of receipt and acceptance of material and shall be paid within next 15 days period. (refer tender terms & conditions)		Select from the drop down list	
7	Delivery period: Wit terms & conditions)	thin 75 days of placement of PO / LOI. (refer tender	Select from the drop down list	
8	Validity: 75 days fro terms & conditions)	om techno commercial bid opening(Part I). (refer tender	Select from the drop down list	
9		or late delivery will be applicable @ 0.5% per week or to a maximum of 10.0% . (refer tender terms &	Select from the drop down list	
10	specified in the Purc contract and to Purcl the whole of the goo	e supplier fails to deliver the goods within the delivery hase Order, BHEL will be entitled to terminate the hase elsewhere at the risk and cost of the seller either ds or any part which the supplier has failed to deliver he delivery period mentioned in the Purchase Order. & conditions)	Select from the drop down list	
11	Firm Price: The quot supplies. No PVC sh	ted / finalised rates shall be firm till execution of the nall be applicable	Select from the drop down list	
12	You are manufacture	er of quoted item/s.	Select from the drop down list	
13	Are you registered u	nder MSMED act 2006 as Micro or Small.	Select from the drop down list	

PART-I (TECHNO-COMMERCIAL BID)

(To be filled & signed by bidder & submit with offer as 'PDF' file only)

Tender	enquiry no. & date	2223-009E dated 27.05.2022		
Tender	description	Supply of Wooden Boxes & Planks		
14	If you are registered under MSMED act 2006 as Micro or small, please attach valid UDYAM certificate as per tender terms & conditions	Select from the drop down list		
15	Minimum percentage of Local content should be 50% to qualify as Class I supplier as per latest Make in India Order issued before issue date of this tender.	Please mention percentage of Local Content here		
		Name		
		Designation (Proprietor/ Partner/Director/ Authorised Signatory)		
16	Contact Details	Email ID		
		Mobile No		
		Address		
17	I have thoroughly gone through the attached tender terms & conditions and understood the above techno-commercial requirements	Select from the drop down list		

We further, confirm that we have quoted the rates in the tender considering Inter-alia the

- 1. Tender Document(s)
- 2. Additional Document(s) (if any)
- 3. BOQ Document (Price Bid Format)
- 4. Corrigendum (if any)
- 5. Pre Bid Meeting Minutes (if any)

We hereby certify that we have fully read and thoroughly understood the tender requirements and accept all terms and conditions of the tender including all corrigendum/addendum issued (if any). Our offer is in confirmation to all the terms and conditions of the tender including all corrigendum/addendum (if any) and minutes of the pre-bid meeting (if any). In the event our offer is found acceptable and Order is placed /Contract is awarded to us, the complete tender document shall be considered for constitution of Order / Contract Agreement.

Authorised signatory with seal

(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the TEXT # **TOTAL AMOUNT In Words** 13 0.00 0.00 0.00 0.00 0.00 0.00 0.00 excluding taxes in **TOTAL AMOUNT** NUMBER# 7 **BASIC RATE In** entered by the Figures To be Rs. Per piece NUMBER # Bidder in Number TEXT # Bidder Name and Values only) Units PRICE SCHEDULE **NUMBER#** 10000.00 7000.00 Quantity 1000.00 8000,00 500 00 100.00 300.00 50.00 350.00 350.00 185.00 400.00 300.00 150.00 500.00 7000,00 40.00 25.00 80.00 20.00 Item Code / Make GWB67035006 GWB67035002 GWB67035004 GWB67035005 GWB67035008 GWB67035009 GWB67035010 GWB67035013 GWB67035014 GWB67035044 GWB67035102 GWB67035103 GWB67035104 GWB67035105 GWB67035106 GWB67035107 GWB67035109 GWB67035001 GWB67035003 GWB67035007 GWB67035012 GWB67035047 GWB67035052 GWB67035011 TEXT # Item Wise BoQ WOODEN PLANK 1""X4""X32" (INCHES) WOODEN PLANK 1"X4"X36" (INCHES) WOODEN PLANK 2"X4"X58" (INCHES) WOODEN PLANK 2"X4"X28" (INCHES) WOODEN PLANK 2"X4"X32" (INCHES) WOODEN PLANK 2"X4"X36" (INCHES) WOODEN PLANK 2"X4"X38" (INCHES) WOODEN PLANK 2"X4"X50" (INCHES) Item Description ender Inviting Authority: BHEL IVP Goindwal Sahib BOX NO. 17 Box no 10A Box no 13A Box no 14A Box no 14B Box no 16B Box no 2A Box no 9A Box no 15 Box no 16 Box no 16C Box no 3A Box no 6 Name of Work: Supply of Wooden Boxes & Planks Box no 2 Box no 4 Box no 5 TEXT # Box no 7 Help Contract No: 2223-009E dated 27.05.2022 Bidder/ Bidding **NUMBER#** Name of the Company: Validate S. S. ω o | C a က 4 2 9 Firm /

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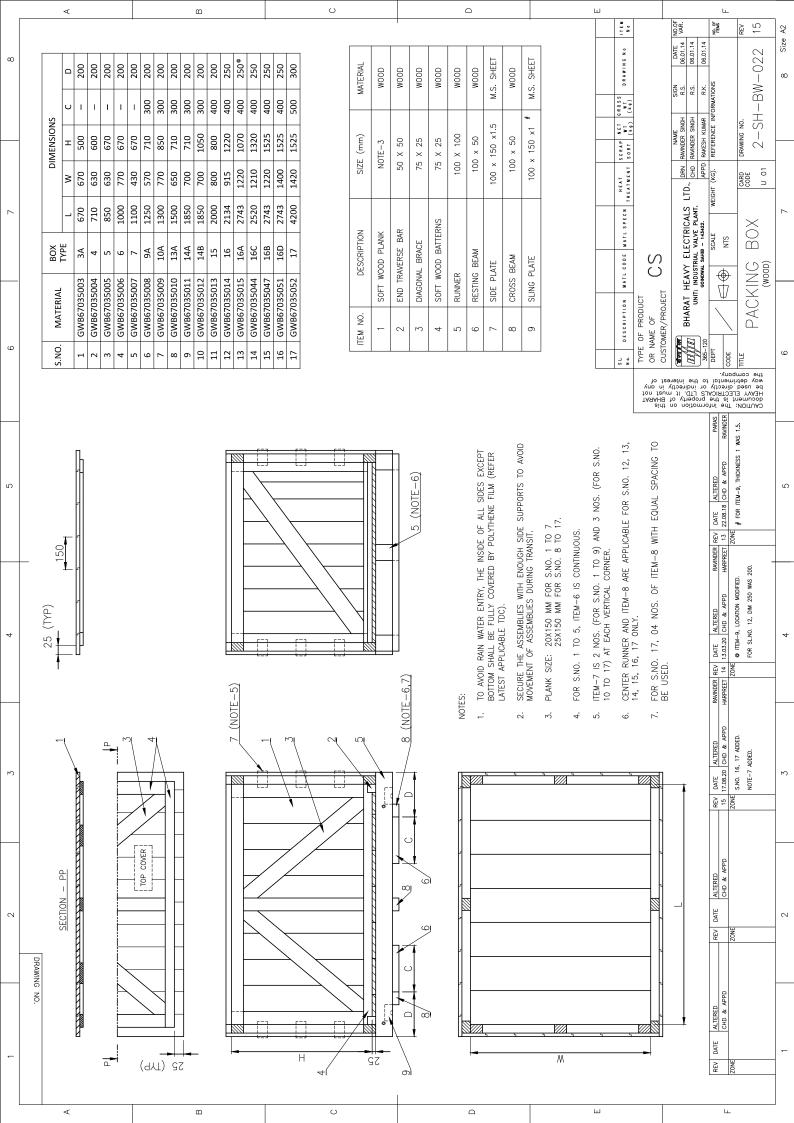
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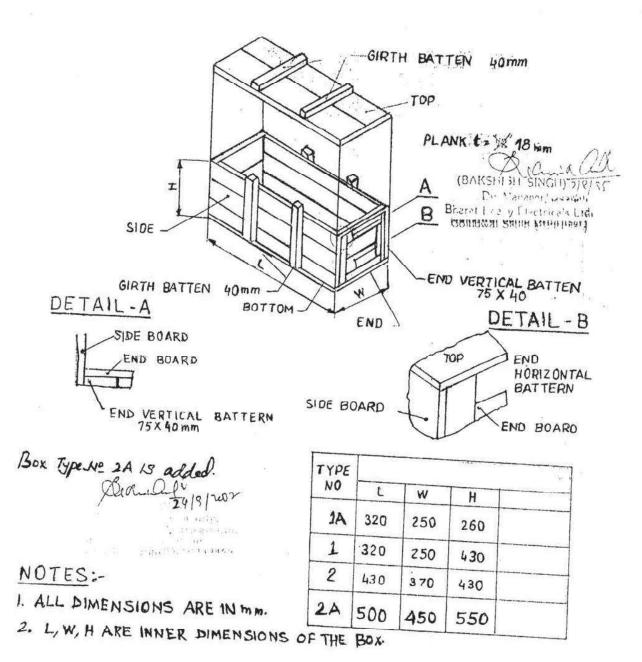
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DOC NO TDC:WOODENBOX:

Rev:06

Rev date: 18.08.2018

Product: : Assembled Wooden boxes and loose wooden planks

1. General:

This TDC lays down instructions for supply of assembled wooden boxes and loose wooden planks at industrial valves plant for transportation of the valves/wall blowers/Loose Components & other finished products.

2. Wood Species:

The following wood species can be used for Wooden boxes/planks:

Coniferous Wood:

Trade Name

Fir Deodar Abies pindrow Cedrus deodara

Botanical Name

Chir Kali

Pinus roxburghil Pinus wallichians

Khasi Pine

Pinus khasya

Spruce

Picca smithiana boiss

Non Coniferous Wood:

Trade Name

Botanical Name Hevea brasiliensis

Rubber wood Salai

Boswellia serrata Terminalia bellirica Syzygium cumini

Bahera Jaman Lendi

Lagerstroemia parviflora

Mango

Hangifera indica Machilus macrantha

Machilus(Kalamavu) Irul

Xylis xylocarpa

Irulbaken

Hopes

Karumarudu

Terminalia tomentoss

Murtenga Nangal

Bursera serrata Mesua ferrea

Pillamarudu

Terminalia panicutala

Sal

Shorea Robusta

Any other species of wood as per Groups I, II of IS 6662 will also be accepted.

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last find



DOC NO TDC:WOODENBOX:

Rev:06

Rev date: 18.08.2018

Product: : Assembled Wooden boxes and loose wooden planks

3. Compliance With Standards:

Assistance has been derived from the following standards in the preparation of this specification.

BHEL Corporate Packing Standard No..: AA 51402 for non-coniferous wood

BHEL Corporate Packing Standard No..: AA 51401 for coniferous wood

IS 1326-1992: Non-Coniferous Sawn Timber (Baulks & Scantling)

IS 5966-1993: Non-Coniferous Timber in Converted Form for General Purposes

IS: 190 – 1991 Grade I:Coniferous Sawn Timber (Baulks & Scantling)

IS: 6662 – 1993: Timber Species Suitable For Wooden Packaging Groups I & II

4. Requirements:

- 4.1 Wooden boxes shall be duly provided with a 70 GSM (Colourless/Transparent) Multi Layered Cross Laminated Polythene Film Specification No: AA51420 on inner surface of four sides of box & inner surface of top cover using blue nails to protect the valves from outside rain water or condensing moisture. The length of blue nails shall be 16mm.
- 4.2 Wherever 2 pieces of Cross laminated poly film are used, the joint shall have an overlap of minimum 20 mm. The film used for top cover shall project outside on 4 sides by at least 100 mm and shall be nailed properly on sides. The film is not required for the base of the boxes.
- 4.3 Corner plates and sling plates made of mild steel sheet measuring as per drawing shall
- 4.4 Two consecutive planks shall be joined by lap joint as per drawing.
- 4.5 The dia. of the nails shall be 3.15mm. The length of the nails shall be 65mm wherever two planks of 25mm thickness are joined and 85mm wherever a 25mm planks is joined to a 50mm plank. The extra length of nail after nailing in both planks shall be bend properly. Nailing should be done in such a way that head of nail shall be outside the box. Distance between any two nails shall not be more than 100mm.

5. Dimensions and Tolerances:

Width, thickness and length of all components of wood used in wooden boxes shall be as specified in drawing/Purchase Order. Dimensional tolerances shall be as follows:

Width:

+/- 5mm

Thickness: +2/-1 mm (for thickness less than 20 mm)

+3/-1 mm (for thickness ≥ 20 mm)

Length:

+/- 2% of total length or 25 mm whichever is lower.

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DOC NO TDC:WOODENBOX:

Rev:06

Rev date: 18.08.2018

Product: : Assembled Wooden boxes and loose wooden planks

6. Moisture Content:

The timber shall have moisture content as stated below within a depth of 15mm from the surface excluding a length of 300 mm from each end at the time of inspection. The moisture content will be determined in accordance with IS: 287

October to June

: 30%

July to September (Rainy season)

: 40%.

7. Permissible Defects:

- 7.1 Brashness, splits across the grains, shakes, cups, twist, insect attack, centre heart in planks are the defects which are not acceptable.
- 7.2 **Bow:** Shall be permissible upto a maximum of 2mm for 300mm
- 7.3 End Splits: The largest end splits at each end shall be measured and the length added together. The added lengths of these shall not exceed 60 mm per meter run of the piece.
- 7.4 Live / Dead Knots: A maximum of 5 Knots/m length are permissible; however, the knots shall not be so grouped or located as to affect the strength of the piece. Knots above 35mm. diameter are not permissible. Major axis of the knot shall be taken as the diameter of this knot.
- 7.5 Surface Cracks: Surface cracks with a depth of 10% subjected to maximum of 10 mm are permissible. A continuous crack of any depth all along the length is not permissible.

8. Certificate:

The supplier shall furnish a certificate with each lot/consignment in support of the species of the wood, moisture content, size of the nails used, GSM of polythene used, dimension report of one piece per type per lot and any special information which the tenderer feel is essential for the quality of the packing boxes.

9. Identification and Marking:

The boxes shall be marked/painted in order to identify the source of supply on one of two small side faces.

- SUPPLIER NAME:
- BOX TYPE:
- **BOX SERIAL NO.:**
- SUPPLIER INVOICE NO .:

Following marking has to be done using paint/ink & stencil on one long side face-

- **CONSIGNEE:**
- **INVOICE NO.:**
- OA NO./WO. NO.:

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DOC NO TDC:WOODENBOX:

Rev:06

Rev date: 18.08.2018

Product: : Assembled Wooden boxes and loose wooden planks

CASE NO.:

MATERIAL/QTY:

WEIGHT:

FROM: BHEL/GOINDWAL/TARN TARAN

The ink shall be non-fading/indelible and non-washable by water.

Loose planks supplied by supplier as per PO shall be done colour coding on one end as per colour allotted to supplier.

10. Inspection: Supplier shall submit inspection report as per below format for one box of each type per lot of supply:

			ection F	orma	at for W		oxes and p			
Date	of ins	pection:		 		Вох	inspection form	at no: Woo	den box	insp:001
Supp	lier n	name								
Supp	lied l	oatch det	ails							
				1	Obser	ved dimens	ions			
Box t	уре	L	W	Н	С	D	Dimension	LENGTH	width	Thickness
							Plank			
							Resting			
							Beam			
			,				others			
SN	Тур	e of check	(Remarks						
1	Pol	ythene filr	n							
2	Cor	ner and sl	ing plates							
3	Pla	nks overla	pping							
4	Мо	isture con	tent							
5	Size	of nails u	sed							
6	Def	ect details	(If found							
	abo	ve permis	sible limit							
	as p	er clause	No. 7)							
7	lde	ntification	and							
	Ma	rking								
8	Oth	er remark	s(If any)							

for form



DOC NO TDC:WOODENBOX:

Rev:06

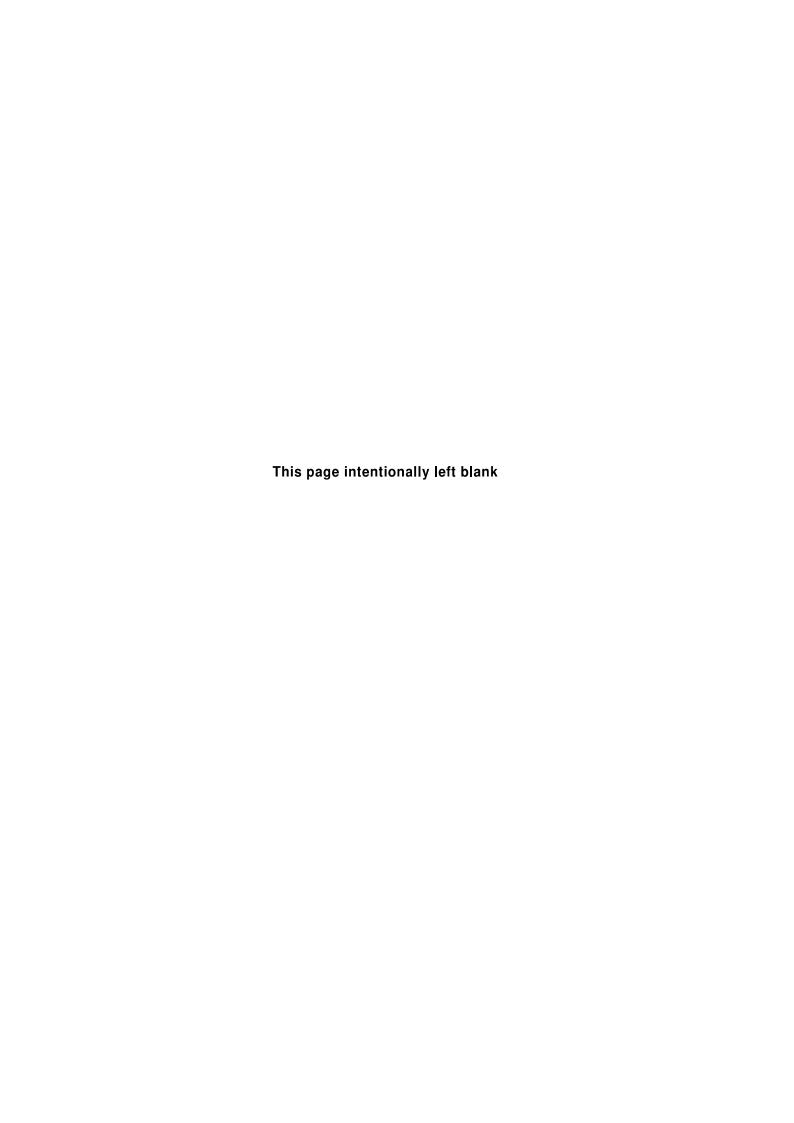
Rev date: 18.08.2018

Product: : Assembled Wooden boxes and loose wooden planks

11. AUDIT CHECKS AT BHEL:

BHEL reserves the right to carry out audit checks for wood species, polythene film confirmation to standard, nails size, Corner & Sling plate material & dimension, planks & overall box dimensions. Items found defective during check at BHEL will be rejected.

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11/8/18	18/03/18	20/8/18	Junos 1818	2018118
Vikas Kumar	Rajesh Kumar	Harpreet Rai	Rakesh Kumar	S R Kenny
Sr. Engr/QM	Dy Mgr/CML	Sr DGM/CML	Sr DGM/MM	AGM/QM &HSE
Prepar	ed by	Review	ed by	Approved by





CORPORATE PURCHASING SPECIFICATION

AA51402
Rev No. 03
PAGE 1 of 5

NON-CONIFEROUS TIMBER FOR GENERAL PACKING PURPOSES

1 GENERAL

This specification governs the quality requirements of Non-Coniferous Timber supplied in the form of planks, battens, beams and sleepers.

2 APPLICATION

Used for general packing purposes.

3 COMPLIANCE WITH NATIONAL STANDARDS

There is no National standard covering this material. However, assistance has been derived from the following National standards:

- IS 1326-1992: Non-Coniferous Sawn Timber (Baulks & Scantling)
- IS 5966-1993: Non-Coniferous Timber in Converted Form for General Purposes
- IS 6662-1993 Groups I & II: Timber Species Suitable For Wooden Packaging

4 TERMINOLOGY

For the purpose of this specification, the definitions given in IS 707 (Glossary of terms applicable to timber and timber products) shall apply except for the beam which is defined as follows:

Beam is defined as converted timber whose cross-sectional dimensions exceed 50mm in both directions.

5 SPECIES

Shall be as stated on the order- Some standard species are:

Trade Name	Botanical Name
Rubber wood	Hevea brasiliensis
Salai	Boswellia serrata
Bahera	Terminalia bellirica
Jaman	Syzygium cumini
Trade Name	Botanical Name
Lendi	Lagerstroemia parviflora
Mango	Hangifera indica
Machilus(Kalamavu)	Machilus macrantha
Irul	Xylis xylocarpa
Irulbaken	Hopes
Karumarudu	Terminalia tomentoss
Murtenga	Bursera serrata
Nangal	Mesua ferrea
Pillamarudu	Terminalia panicutala
Sal	shorea robusta

	Revisions: Clause 6.2.3 of M	OM of WG (T&PM))	APPROVED: INTERPLANT MATERIAL RATIONALISATION COMMITTEE – MRC(T&PM)		
5160	Rev No.03	Amd No. 03	Reaffirmed	Prepared	Issued	Dt. of 1st Issue
- 1	Dt:01-10-1995	Dt:	Year:2018	HEP, Bhopal	Corp.R&D	01-03-1980

AA51402

Rev No. 03

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CORPORATE PURCHASING SPECIFICATION



Silver oak	Grevillea robusta
Tada(Dhaman)	Grewia tillifolia

Any other species of wood as per Groups I & II of IS 6662 may also be ordered.

6 DIMENSIONS AND TOLERANCES

6.1 Sizes

Width, thickness and length of timber shall be clearly stated on the order.

6.2 Tolerances

6.2.1 Width: 50 to 250 mm, Tolerance: ±3 mm

6.2.2 Thickness: 20 to 250 mm, Tolerance: $^{+3}_{-1} \frac{mm}{mm}$

6.2.3 Length

Standard length : 1 to 12 metres in multiples of 0.5 metre

Tolerance : ±2% or ±25 mm whichever is less.

Note

- 1) Measurements
- 1.1) When nominal sizes are ordered, length, width and thickness shall be measured on the basis of accepted sizes. Plus tolerances shall not be added while computing the volume.
- 1.2) The measurements of length, width, thickness and computation of volume shall be as follows:
 - a) The length shall be measured in metres in midline of a piece. The fractions of a metre shall be rounded off to the nearest lower 10 mm.
 - b) The width shall be measured at the narrowest place in millimetres and shall be rounded off to the nearest lower one millimetre.
 - c) The thickness shall be measured at the narrowest place in millimetres and shall be rounded off to the nearest lower one millimetre.
 - d) The volume shall be computed in cubic metres correct 'to three places of decimal on the basis of accepted sizes.
- 2) Single sampling plan based on IS 2500 shall be followed.

7 MOISTURE CONTENT

The timber shall have a moisture content as stated below within a depth of 15mm from the surface excluding a length of 300mm from each end at the time of inspection. The moisture content will be determined in accordance with Appendix-A of IS 287.

October to June : 30%

July to September (Rainy season) : 40%

8 FREE FROM DEFECTS

Timber shall be free from the following defects:

Brashness, splits across the grain, shakes, spring, twist, insect attack, any kind of decay (rot), any sign of infection, open centre heart, centre heart on planks and any other defect.

Defects to the extent specified below are permissible. These defects shall be measured in accordance with IS 3364.

8.1 Bow

Shall be permissible upto a maximum of 2mm for 300mm length.



CORPORATE PURCHASING SPECIFICATION

AA51402	
Rev No. 03	

PAGE 3 of 5

8.2 Wane

a) For sections upto and including 150 X 150 mm:

Shall be permissible upto 1/5 of the width on the broad face subject to a maximum of 60mm and upto 1/3 of the width on the narrow face subject a maximum of 40mm, provided that one broad face is completely free from this defect. The wane shall be measured at its deepest part.

b) For sections above 150 X 150 mm

The cumulative lengths of wanes on all the sides should not be more than one length of the piece.

8.3 End splits

The longest end split at each end shall be measured and the lengths added together. The total length of these shall not exceed 60mm per metre run of the piece.

8.4 Live knots upto 35mm diameter

A maximum of 5 knots/metre length are permissible. However, the knots shall not be so grouped or located as to affect the strength of the piece.

Live knots above 35mm diameter are not permissible.

8.5 Dead knots

a) Below 10mm diameter

A maximum of 3 knots/metre length are allowed provided that the knots are not so grouped or located as to affect the strength.

b) From 10mm to upto and including 25mm diameter

A maximum of 2 knots allowed to the extent of 1 knot/metre length.

c) Above 25mm diameter

Not allowed.

Note: (For clauses 8.4 & 8.5): Major axis of the knot should be taken as the diameter of the knot.

8.6 Surface cracks

Surface cracks with a depth of 10% subject to a maximum of 10mm are permissible. A continuous crack of any depth all along the length is not permissible.

8.7 Sap wood

Permissible upto a maximum of 12 percent of the cross sectional area.

9 END COATING

Timber shall be coated with any of the following effective compositions upto a distance of 80mm from each end.

- **9.1** Thick coal tar or bituminous paint.
- **9.2** Resin and lamp black (10:1) melted, mixed and applied hot.
- 9.3 Hardened gloss oil.
- 9.4 Paraffin wax.
- 9.5 Molasses and lime (3:1).
- 9.6 Geru/Yellow clay.

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CORPORATE PURCHASING SPECIFICATION



10 INSPECTIOH AT SUPPLIER'S WORKS

Whenever specified, tests and inspection are to be conducted in the presence of BHEL's representative. BHEL representative shall have free access at all times while work on the contract is being performed to all parts of the manufacturer works. The manufacture shall offer BHEL"s representative all reasonable facilities, without charge, to satisfy the latter that the material is being furnished in accordance with this specification.

The manufacturer shall prepare and provide necessary test specimens for testing to be carried out at his premises. If facilities are not available at his works the manufacturer shall make necessary arrangements for carrying out the prescribed tests elsewhere. The manufacturer shall notify BHEL in advance about the readiness of the material for inspection and testing.

BHEL reserves the right to test the material at BHEL's Works and the final, acceptance of the material shall be based on these test results.

11 TEST CERTIFICATES

Three copies of test certificate shall be supplied unless otherwise stated on the order.

In addition, supplier shall ensure to enclose one copy of test certificate along with their dispatch documents to facilitate quick clearance of the material.

The test certificate shall have the following information:

- AA51402, Rev.No.03: NON-CONIFEROUS TIMBER FOR GENERAL PACKING PURPOSES
- BHEL order No. :
- Supplier's References :
- Type & Specie :
- Treatment, if any :
- Results of Dimensional Inspection :
- Moisture content :
- Defects as per clause 8 :
- Size
- Quantity supplied :

12 MARKING

The timber shall be marked/painted with the following:

- AA51402
- BHEL order No.
- Supplier's Name
- Size & Quantity

13 REJECTION AND REPLACEMENT

If the material does not conform to the requirements of this specification or found defective during v further processing, such material shall be rejected notwithstanding any previous certification of satisfactory testing and/or inspection. The supplier shall under take to replace the rejected consignment at his own cost and the rejected material shall be taken back by the supplier after fulfilling the commercial terms and conditions.



CORPORATE PURCHASING SPECIFICATION

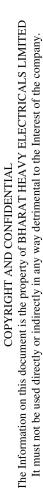
AA51402 Rev No. 03

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14 REFERRED STANDARDS

The following is the list of the latest standards, as published by the respective issuing bodies, referred to in this, specification.

- 1) IS 287
- 2) IS 707
- 3) IS 1326
- 4) IS 2500
- 5) IS 3364
- 6) IS 5966
- 7) IS 6662





CORPORATE PURCHASING SPECIFICATION

AA 514 20	
Rev. No. 02	
PAGE 1 OF 4	

MULTILAYERED CROSS LAMINATED POLYETHYLENE FILM

1.0 **GENERAL**:

This specification governs the quality requirements of multilayered cross laminated polyethylene film. The cross lamination gives qualities of extra toughness, together With flexibility and lightness coupled with good weather resistance to ultra violet rays.

2.0 **APPLICATION:**

Used for packing and allied purposes.

3.0 COMPLIANCE WITH NATIONAL STANDARDS:

There is no Indian Standard covering this type of material.

4.0 AVERAGE WEIGHT, DIMENSIONS AND TOLERANCES:

4.1 Average weight & Sizes:

Average weight (G.S.M), Width and Length shall be as stated on the order.

4.2 Average Weight & Tolerance:

45, 60, 70, 90, 105, 120, 150, 200, & 250 GSM with a tolerance of \pm 10 %.

4.3 Width and tolerance:

4.3.1 **Preferred widths:**

900, 1000, 1500, 2000, 2500, 3000 and 3660 mm.

4.3.2 Tolerance on width:

W	idth, mm	Tolerance(±) mm
Above	Upto & Incld.	
900	1250	8
1250	2500	20
2500	3000	40
3000	3660	50

Revisions: As per e-mail dt. 4-08-2008 from Shri.Gopal Bhat, SDGM, Bhopal			APPROVED: INTERPLANT MATERIAL RATIONALISATION COMMITTEE- WG (T&PM)		
Rev. No. 02	Amd. No.	Reaffirmed	Prepared	Issued	Dt. of 1st Issue
Dt.: 01.11.2008	Dt:	Year:	BHOPAL	Corp. R&D	1st October 1995

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Rev. No. 02

CORPORATE PURCHASING SPECIFICATION



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5.0 MANUFACTURE:

The film shall be comprised of several layers of plastic film placed criss-cross over one another and bonded by a special cold-roll technique. Film shall be resistant to most of organic & inorganic chemicals.

'BHEL' emblem of size A40 shall be embossed by thermostatic control on the film at an interval of 1000 mm along the length of the film.

The colour of the emblem shall be Air Craft Blue (Shade No. 108) as per IS: 5 or Black / Red.

One vertical heat sealing joint will be acceptable for films between 1200 mm and 2400 mm at the interval of 1200 mm width.

Two vertical heat sealing joint will be acceptable for films above 2400 mm at the interval of 1200 mm width.

6.0 APPEARANCE AND FINISH:

The film shall be uniform in colour, texture and finish. And also shall be free from pinholes, undispersed raw material, streaks and foreign particles and holes, tears or blisters. The edge shall be free of nicks and cuts to unaided eye.

7.0 COLOUR:

Unless otherwise specified, the film shall be supplied in Natural Colour (essentially colourless) for 45 GSM, yellow colour for 70 GSM & Blue colour for 90 GSM. Any other colour can also be ordered, if agreed mutually.

For film of other average weights, colour shall be as stated on the order.

8.0 ODOUR:

The film shall be free from any objectionable odour.

9.0 TEST METHOD:

Unless otherwise specified, the test shall be conducted in accordance with the relevant methods of IS: 2508.

10.0 TEST SAMPLES:

One Square metre (1 sq.m) of ordered thickness shall be supplied for testing purpose.



CORPORATE PURCHASING SPECIFICATION

AA 514 20

Rev. No. 02

PAGE 3 OF 4

11.0 PHYSICAL PROPERTIES:

Substance (GSM): 45, 50, 60, 70, 90, 105, 120, 150, 200, & 250.

Tolerance: ± 10 %.

12.0 MECHANICAL PROPERTIES:

12.1 Tensile Strength at Break:

Direction N/mm², min.

Direction - I 35

Direction - II 37

12.2 Elongation at Break:

Direction - I 500 percent, min.

Direction - II 400 percent, min.

12.3 Tear Resistance in/grams (ASTM – D 1922):

GSM 45 60 70 90 105 120 150 200 250

Direction I 800 1800 1800 2150 2500 3200 3500 4500 5500

Direction II 650 1500 1500 1950 2000 2000 2500 3500 4500

13.0 <u>INSPECTION AT SUPPLIERS' WORKS:</u>

Whenever specified, tests and inspection are to be conducted in the presence of BHEL'S representative.

BHEL'S representative shall have free access at all times while the work on the contract is being performed, to all parts of the manufacturer's works.

The manufacturer shall offer BHEL's representative all reasonable facilities without charge to satisfy the latter that the material is being furnished in accordance with this specification. The manufacturer shall prepare and provide necessary test specimens for testing to be carried out at his premises. If facilities do not exist at his works, the manufacturer shall make necessary arrangements for carrying out the prescribed tests elsewhere.

The manufacturer shall notify BHEL's representative in advance about the readiness of the material for inspection and testing.

BHEL reserves the right to test the material at BHEL's works and the final acceptance of the material shall be based on these test results.

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Rev. No. 02

CORPORATE PURCHASING SPECIFICATION



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14.0 TEST CERTIFICATES:

Three copies of test certificates shall be supplied unless otherwise stated on the order.

In addition, the supplier shall ensure to enclose one copy of the test certificate along with their dispatch documents to facilitate quick clearance of the material. The test certificate shall bear the following information:

AA 514 20: Multilayered Cross Laminated Polyethylene Film.

Rev. No. 02

BHEL Order No.

Batch / Lot No.

Results of dimensional inspection.

Test results of clauses 11 and 12.

15.0 PACKING AND MARKING:

To be supplied in bundles / packages suitably packed to prevent damage during transit and storage.

AA 514 20

BHEL Order No.

Manufacturer's name and grade

Batch No. / Lot No. and date of manufacture

Average weight, Width, Length and colour

Net weight of the Bundle / Package

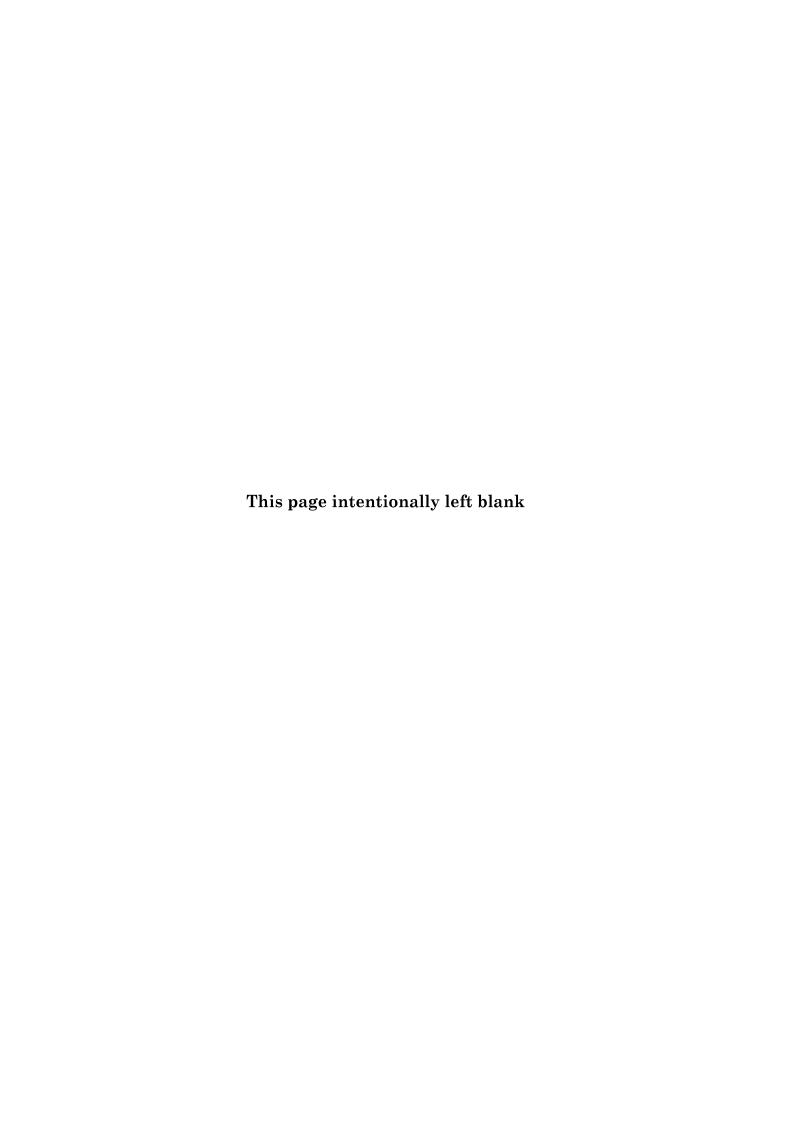
16.0 <u>REJECTION AND REPLACEMENT:</u>

In the event of any film proving defective during the course of preparation, testing, subsequent use, etc such material shall be rejected notwithstanding any previous certification of satisfactory testing and / or inspection.

The supplier shall under take to replace the rejected film at his own cost and the rejected material shall be taken by the supplier after fulfilling the commercial terms and conditions.

17.0 <u>REFERRED STANDARDS</u> (Latest Publications Including Amendments):

1. IS: 5 2. IS: 2508 3. ASTM - D 1992





CORPORATE PURCHASING SPECIFICATION

AA51401 Rev No. 03 PAGE 1 of 6

CONIFEROUS TIMBER FOR GENERAL PACKING PURPOSES

1.0 GENERAL:

This specification governs the quality requirements of Coniferous timber supplied in the form of planks, battens beams and sleepers. The coniferous timber differs from non-coniferous (broad leave) timber in its gross appearance, anatomical structure and properties. In general, it works more easily under the tools and can be easily nailed.

2.0 APPLICATION:

Used for general packing purposes.

3.0 COMPLIANCE WITH NATIONAL STANDARDS:

There is no National standard covering this material. However, assistance has been derived from the following National standards:

IS: 190 – 1991 Grade I : Coniferous Sawn Timber (Baulks & Scantling)

IS: 6662 - 1993

Groups III & IV : Timber Species Suitable For Wooden Packaging

4.0 TERMINOLOGY:

For the purpose of this specification, the definitions given in IS: 707 (Glossary of terms applicable to timber and timber products) shall apply except for the beam which is defined as follows:

Beam is defined as converted timber whose cross-sectional dimensions exceed 50mm in both directions.

5.0 SPECIES:

Shall be as stated on the order. Some standard species are:

<u>Trade Name</u>	Botanical Name	<u>Abbreviation</u>
Fir	Abies pindrow	FIR
Deodar	Cedrus deodara	DEO
Chir	Pinus roxburghil	CHR
Kali	Pinus wallichians	KAL
Khasi Pine	Pinus khasya	KPI
Spruce	Picca smithiana boiss	SPR

Revisions: Cl. 6.2.2 of MOM of WG – (T&PM)			APPROVED: INTERPLANT MATERIAL RATIONALISATION		
· · ·			COMMITTEE - MRC(T&PM)		
Rev No.03	Amd No.01	Reaffirmed	Prepared	Issued	Dt. of 1st Issue
Dt:01-10-1995	Dt:02-05-2002	Year:2018	HEP, Bhopal	Corp.R&D	MAR. '80

AA51401

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CORPORATE PURCHASING SPECIFICATION



6.0 DIMENSIONS AND TOLERANCES:

6.1 Sizes:

Width, thickness and length of timber shall be clearly stated on the order.

6.2 Tolerances:

6.2.1 Width: 50 to 250 ram Tolerance: +3 ram

6.2.2 Thickness: 20 to 250 mm Tolerance: +3 mm

- 1 mm

6.2.3 Length:

Standard length: 1 to 12 metres in multiples of 0.5 metre Tolerance: $\pm 2\%$ or ± 25 ram whichever is less.

Note:

1.0 Measurements:

- 1.1 When nominal sizes are ordered, length, width and thickness shall be measured on the basis of accepted sizes. Plus tolerances shall not be added while computing the volume.
- 1.2 The measurements of length, width, thickness and computation of volume shall be as follows:
 - a) The length shall be measured in metres in midline of a piece. The fractions of a metre shall be rounded off to the nearest lower 10 mm.
 - b) The width shall be measured at the narrowest place in millimetres and shall be rounded off to the nearest lower one millimetre.
 - c) The thickness shall be measured at the narrowest place in millimeters and shall be rounded off to the nearest lower one millimeter.
 - d) The volume shall be computed in cubic meters correct to three places of decimal on the basis of accepted sizes
- 2.0 Single sampling plan based on IS: 2500 shall be followed.

7.0 MOISTURE CONTENT:

The timber shall have moisture content as stated below within a depth of 15mm from the surface excluding a length of 300mm from each end at the time of inspection. The moisture content will be determined in accordance with IS: 287

October to June : 30%

July to September (Rainy season): 40%



CORPORATE PURCHASING SPECIFICATION

AA51401

Rev No.03

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8.0 FREE FROM DEFECTS:

Timber shall be free from the following defects:

Brashness, splits across the grain, shakes, spring, twist, insect attack, any kind of decay (rot), any sign of Infection, open centre heart, centres heart on planks and any other defect.

Defects to the extent specified below are permissible. These defects shall be measured in accordance with IS: 3364.

8.1 Bow:

Shall be permissible up to a maximum of 2 mm for 300 mm length.

8.2 Cud:

Shall be permissible up to a maximum of 6 mm for 300 mm width

8.3 Centre heart:

Shall be permissible only on sleepers when it is not further than 35 mm from the nearest edge. This does not apply to beams of cross sections above 200 X 200 mm.

8.4 Wane:

a) For sections up to and including 150 X 150 mm:

Shall be permissible upto 1/5 of the width on the broad face subject to a maximum of 70 mm and upto 1/3 of the width on the narrow face subject a maximum of 50 mm, provided that one broad face is completely free from this defect. The wane shall be measured at its deepest part

b) For sections above 150 X 150 mm:

The cumulative lengths of wanes on all the sides should not be more than one length of the piece.

8.5 End splits:

The longest end split at each end shall be measured and the lengths added together. The total length of these shall not exceed 80mm per meter run of the piece.

8.6 Live knots:

8.6.1 Knots on the surface:

a) Up to & including 25 mm diameter:

A maximum of 5 knots/meter length are permissible. However, the knots shall not be so grouped or located as to affect the strength of the piece.

b) Over 25mm and up to and including 70 mm diameter:

A maximum of 2 knots/metre length are permissible.

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CORPORATE PURCHASING SPECIFICATION



8.6.2 Knots on the edges:

a) Up to and including 10 mm diameter and for full thickness:

A maximum of 2 knots/metre length are permissible

b) Over 10 mm and up to & including 50 mm diameter and for less than half thickness:

A maximum of 2 knots/metre length are permissible.

8.7 Dead knots:

a) Below 10 mm diameter:

A maximum of 3 knots/metre length are allowed provided that the knots are not so grouped or located as to affect the strength.

b) From 10 mm to up to and including 25mm diameter:

A maximum of 2 knots allowed to the extent of 1 knot/metre length.

c) Above 25 mm diameter:

Not allowed

Note: (For clauses 8.6 & 8.7): Major axis of the knot should be taken as the diameter of the knot

8.8 Surface cracks:

Surface cracks with a maximum depth of 10% of the thickness are permissible. A continuous rack of any depth all along the length is not permissible.

8.9 Sap Wood:

Permissible up to a maximum of 12 percent of the cross sectional area.

9.0 END COATING:

Timber shall be coated with any of the following effective compositions upto a distance of 80 mm from each end

- **9.1** Thick coal tar or bituminous paint.
- 9.2 Resin and lamp black (10:1) melted, mixed and applied hot.
- **9.3** Hardened gloss oil.
- 9.4 Paraffin wax.
- **9.5** Molasses and lime (3:1).
- **9.6** Geru/Yellow clay



CORPORATE PURCHASING SPECIFICATION

AA51401

Rev No.03

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10.0 INSPECTION AT SUPPLIER'S WORKS:

Whenever specified, tests and inspection are to be conducted in the presence of BHEL's representative. BHEL representative shall have free access at all times while work on the contract is being performed to all parts of the manufacturer works. The manufacture shall offer BHEL's representative all reasonable facilities, without charge, to satisfy the latter that the material is being furnished in accordance with this specification.

The manufacturer shall prepare and provide necessary test specimens for testing to be carried out at his premises. If facilities are not available at his works the manufacturer, shall make necessary arrangements for carrying out the prescribed tests elsewhere. The manufacturer shall notify BHEL in advance about the readiness of the material for inspection and testing. BHEL reserves the right to test the material at BHEL's Works and the final acceptance of the material shall be based on these test results

11.0 TEST CERTIFICATES:

Three copies of test certificate shall be supplied unless otherwise stated on the order.

In addition, supplier shall ensure to enclose one copy of test certificate along with their dispatch documents to facilitate quick clearance of the material.

The test certificate shall have the following information:

AA51401 (Rev.No. 03): CONIFEROUS TIMBER FOR GENERAL PACKING PURPOSES

BHEL order No.:

Supplier's References:

Type & Specie:

Treatment, if any:

Results of Dimensional Inspection:

Moisture content:

Defects as per clause 8.0:

Size:

Quantity supplied:

12.0 MARKING:

The timber shall be marked/painted with the following:

AA 514 01

BHEL order No. :

Supplier's Name :

Size & Quantity:

AA51401

Rev No. 03

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CORPORATE PURCHASING SPECIFICATION



13.0 REJECTION AND REPLACEMENT:

If the material does not conform to the requirements of this specification or found defective during further processing, such material shall be rejected not withstanding any previous certification of satisfactory testing and/or inspection. The supplier shall under take to replace the rejected consignment at his own cost and the rejected material shall be taken back by the supplier after fulfilling the commercial terms and conditions.

14.0 REFERRED STANDARDS:

The following is the list of the latest standards, as published by the respective issuing bodies, referred to in this specification.

1) IS: 190

2) IS: 287

3) IS: 707

4) IS: 2500

5) IS: 3364

6) IS: 6662

ANNEXURE-B

RESTRICTIONS UNDER RULE 144(XI) OF THE GENERAL FINANCIAL RULES (GFRs), 2017

(The bidders are required to print this on their company's letterhead & sign, stamp and submit with offer documents)

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that bidder (.... Name of Bidder) is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that bidder (.....Name of bidder) fulfils all requirements in this regard and is eligible to be considered.

If the bidder is from such country which shares a land border with India evidence of valid registration by the Competent Authority shall also be attached along with offer."

Withregards

Signature with company seal
Name –
Company/Organization
Designation within Company/Organization
Address of Company/Organization