



TECHNICAL SPECIFICATIONS AND CONDITIONS FOR ANNUAL RATE CONTRACT FOR SUPPLY OF WOODEN PACKING BOXES/ CRATES

1. SCOPE OF SUPPLY:-

- 1.1 This is the annual rate contract for supply of wooden packing boxes and shall be valid for one year from date of annual rate contract (ARC). Actual drawing or dimensions of wooden boxes shall be given from user department to the supplier as per BHEL's requirement.
- 1.2 The wooden packing boxes are to be supplied in ready-to-pack condition at CSU, BHEL Jagdishpur (hereinafter called as BHEL).
- 1.3 The estimated total volume of the supply of wooden boxes is only indicative & the actual volume may vary depending upon plant operation/ requirement. No minimum load is assured.

2. CAPACITY (PRE-QUALIFYING CRITERIA):-

The projected requirement has been given in the tender. Vendors should state their capacity to supply the BHEL per month. Vendors should have capacity to manufacture and supply (as per specifications mentioned below) at least 300 boxes per month to BHEL CSU Jagdishpur. Vendor's capacity to supply per month implies vendor's ability to supply such quantities of items meeting the quality requirements and delivery schedules. Vendors shall intimate only such capacity that can be allocated to BHEL CSU Jagdishpur and not their total capacity. The vendors having capacity less than 300 Boxes per month will not be eligible as per technical criteria mentioned above.

3. TECHNICAL SPECIFICATIONS

- 3.1 The wood used in making boxes should conform to enclosed specification BHEL/CSU/TS/009 (Rev 00). However, the wood if banned by any government authority at any point of time shall be not used for boxes in spite of its mention in drawing/specification provided by BHEL. The responsibility to ensure the compliance of government/ salutatory authority ruling in this regard lies with Vendor. BHEL will not be responsible in any way if the vendor is fined or penalized due to non-fulfillment of these requirements.
- 3.2 Wooden packing boxes are to be supplied as per drawing, dimensions and specifications given by BHEL which may vary from job to job/ stampings & total weight to be packed in those boxes.
- 3.3 Normally, the size of boxes may vary from 0.5 (L) x 0.5 (B) x 0.5 (H) mtr to 1.5 (L) x 1.5 (B) x 0.8 (H) mtr, with tare weight ranging from 50 Kgs to 120 Kgs.
- 3.4 The sizes of wooden members/ planks will be - 20 to 75 x 50 to 150 x 500 to 1600 mm approximately and may vary depending upon job size to be packed. The total volume of wood used for one packing box will be approximately 0.15 cubic meters. The total volume of wooden members used in one packing box will depend on size & design of the box.
- 3.5 Bottom wooden cross members of the base to be fastened by coach bolts at four corners to provide strength to the boxes. Suitable mild steel angles of size 2mm x 80mm x 80mm are to be provided at all wall joints (8 nos.) and at base corners (4 nos.) for slinging/ lifting by cranes.
- 3.6 The packing box will consist Base, Four side panels and Top cover. Base, sides & top cover are to be secured/ fastened with steel strips-25mm wide X 24 gauge.
- 3.7 The weight of the material/ stampings to be packed in each box shall be in the range of 1000 kg to 3000 Kg

4. Business/ Work Distribution: The whole business is proposed to be distributed between 2 (Two) successful bidders, with the lowest bidder (L1) getting about 70% share and the next higher bidder (L2) getting about 30%. The L1 rates shall



Bharat Heavy Electricals Limited

be offered to L2 the bidder. In case L2 does not agree with L1 rates, the L1 rates shall be offered to L3 and if L3 does not agree with L1 rates, the L1 rates shall be offered to L4 and so on. If no one accepts the rate of L1 bidder, whole work shall be awarded to L1 bidder.

******* In tender, if Micro and Small Enterprises quoting within the price band of L1+15% **shall be allowed to supply the requirement up to 20% of the total tender quantity and remaining total quantity will be distributed to 70:30**; subject to condition that such Enterprises bring down their price to L1 price where L1 price is from other than a Micro and Small Enterprise. If L1 offer is from a Micro / Small Enterprise, this provision will not be applicable. In case more than one Micro and Small Enterprise is there within this span, the supply shall be shared proportionate to the tender quantity. (70:30 or 50:30:20 of the eligible quantity). Other condition shall be as per MSEs policy 2012 (ref- Pg-9 of NIT).

BHEL may change the distribution of work if the quality of work and/or delivery of any of the contractor are not satisfactory during execution of the contract.

- 1.1. Rates to be quoted in terms of Rs. per cubic meter of wood as per scope of supply.
- 1.2. Billing to be done on the basis of the wood (Rs. Per cubic meter) used in supply of boxes. All other charges/ consumables etc. will be included in the rate of wood used.
- 1.3. The price is to be quoted in the following **format**: -
Rate in Rs per cubic meter of wood for the Supply of wooden packing boxes:

Sl. No.	Item	Amount in Rupees
1.	Cost of wood (Rs. per cu. mtr)	
2.	Cost of other items/material required in making of boxes (Rs. per cu. mtr)	
3.	Total Material cost (1 + 2) (Rs. per cu. mtr)	
4.	Taxes (VAT) %	
5.	Total Cost (3 +4) (Rs. per cu. mtr)	
6.	Total volume (cu. mtr)	550
7.	Total Amount (Rs.) = 5 x 6	

- 2.1 The prices are firm.
- 2.1 CST against form C will be payable at actual.
- 2.2 Original excise duty gate pass & TAX invoice of VAT, if applicable shall be submitted by the vendor to enable purchaser to claim Cenvat credit.
- 2.3 Excise duty / Sales tax/ VAT shall be claimed separately in the bills for supplies. This shall be payable at actual.
- 2.4 The packing boxes, shall be supplied FOR, CSU BHEL Jagdishpur.
- 2.5 The title of goods shall pass on to the purchaser on FOR Terms.

5. **Terms of Payment:**

- Payment including excise duty & CST/VAT will be made against Stores Receipt Voucher (SRV). Payment will be through e-payment mode.
- Supplier should submit monthly bills along with all delivery challans.
- 80 % of the cost of the boxes supplied will be paid on clearance of SRV.
- Balance 20% of the cost of the boxes will be paid after the using/ packing of these boxes at BHEL or 30 days from date of receipt of boxes whichever is earlier.
- Payment will be made within 30 days of the submission of bills by the supplier.



Bharat Heavy Electricals Limited

6. **Inspection:** The inspection and acceptance of boxes will done be at BHEL by QC personnel at the time of receipt of boxes. Entries of loaded vehicle of crates will be allowed between 9:00 AM to 3:00 PM on all working days. However BHEL will not be responsible for unloading of crates due to any reason thereof. The Unloading of crates will be in the scope of Vendor. Boxes meeting the BHEL's specification shall be accepted and those not conforming to the BHEL specifications shall be marked as rejected. These rejected boxes should be lifted back (for their free replacement) by the supplier within two working days failing which these boxes may be declared as scrap by BHEL, and supplier will not be able to claim against same at a later stage.
7. **Guarantee:** The packing boxes should be guaranteed for at least two months from date of supply against any manufacturing defect or poor wood quality. The supplier shall arrange free replacement against these defective boxes. The packing boxes should also be guaranteed for safe packing, handling & transportation up to the destination. The contractor will give self-inspection report & guarantee certificate to this effect along with each lot.
8. Entry of vehicle/ trolleys etc. loaded with boxes will be allowed between 8:00 AM to 2:00 PM on all working days. The unloading of boxes will be in the scope of supplier i.e., the supplier has to arrange all resources for unloading of these boxes at his own cost. The boxes should be unloaded and properly stacked at the designated places specified by BHEL.
9. **A minimum of three calendar days shall be given in writing through a requisition letter for delivery of boxes. The scheduled delivery time of lot of boxes will be indicating in the respective requisitions letters. The supplier has be supply the boxes within five days or schedule delivery date as indicated in the requisition letter failing which LD shall be applicable as mentioned in this tender. Inspection of the boxes will be carried out on receipt of the boxes at BHEL.**
10. **Penalty for Delay in supply:** The delivery of the packing boxes shall be made within the time prescribed on the requisition letter issued by user department. Failure to supply the boxes in time as per the delivery specified would make the vendor liable to an un-conditional penalty at the rate of one percent (1%) of the supply order value of lot per week (or part thereof) subject to a maximum of ten percent (10%) of the supply order value of that lot.
11. Deduction from bills will also be made in case of quality deficiency of the packing boxes as recommended by authorized BHEL representative.
12. The required quantity as indicated in respective requisition letters may be revised (increased/ decreased) or cancelled as per requirement with a notice period of two calendar days. The supplied shall not claim against this cancellations/ revision.
13. The supplier should mark/ paint their boxes with following details before supply:-
14. *BHEL PO No., Supplier's name, Box no. or any other identification no.*
15. Party will have to follow all the legal and statutory requirements of State and Central Government and other government bodies and their rules issued time to time. BHEL will not be responsible in any way if they are fined or penalized due to non-fulfillment of these requirements .BHEL will cancel the contract, if in case party is found as the violator of any government rules.
16. In case of unsatisfactory performance of quality / delivery BHEL will have right to Discontinue the contract in part or full.
17. The wood if banned by any government authority at any point of time shall be not used for boxes in spite of its mention in drawing/specification provided by BHEL. The responsibility to ensure the compliance of government/ salutatory authority ruling in



Bharat Heavy Electricals Limited

this regard lies with Vendor. BHEL will not be responsible in any way if the vendor is fined or penalized due to non-fulfillment of these requirements.

SPECIFICATION: BHEL/CSU/TS/009 FOR PACKING WOOD

NON-CONIFEROUS TIMBER FOR GENERAL PACKING PURPOSES

1. GENERAL:

This specification governs the quality of non-coniferous timber supplied in the form of planks, battens, beams and sleepers. This specification supersedes PS: 40101/A.

2. APPLICATION:

Used for the manufacture of packing Boxes/crates.

3. COMPLIANCE WITH NATIONAL STANDARDS:

Assistance has been derived from the following Indian Standards in preparing this specification.

IS: 1326 – 1976: Specification for non-coniferous sawn timber (Baulks and Scantlings)

(Amendment 1).

IS: 5966 – 1993: Specification for non-coniferous timber in converted form for general purposes.

IS: 6662 – 1993: Specification for timber species suitable for wooden packaging. (Groups I & II).

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 below.

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

5. SPECIES:

The species of non-coniferous timber shall be as per below:-

Trade Name	Botanical Name
Rubber Wood	Hevea Brasiliensis
Salai	Boswellia serrata
Bahera	Terminalia Bellirica
Jaman	Syzygium cumini
Lendi	Lagerstroemia parviflora
Mango	Hangifera indica
Machilus (Kalamavvu)	Machilus macrantha
Irul	Xylis xylocarpa
Irulbaken	Hopes
Karumarudu	Terminalia tomentoss
Murtenga	Bursera serrata
Nangal	Mesua ferrea
Pillamarudu	Terminalia panicutala
Sal	Shorea robusta
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/drawing.

6.2 Tolerance:

6.2.1 Width:

Width, mm	Tolerance, mm
50, 75, 100	+ 3
125, 150, 200, 225, 250	{ + 6 {- 3

6.2.2 Thickness

Thickness, mm	Tolerance, mm
20, 25, 35, 40, 50	+3
75, 100, 125, 150, 175, 200, 250	+6 -3

6.2.3 Length:

Standard length:

1 to 12metres in multiples of 0.5 metre.

Tolerance:

± 2% or ± 50mm whichever is less.

Note: (i) The minus tolerances for width, thickness and length shall not be permitted in more than 10% of the timber supplied.

(ii) Measurements:

- 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.
- The length shall be measured in the middle of the piece.
- The width shall be measured at narrowest place
- The thickness shall be measured at narrowest place
- The volume shall be computed in cubic meters correct to three decimal places on the basis of accepted size.

(iii) Single sampling plan based on IS: 2500 shall be followed

7. MOISTURE CONTENT: The timber shall have a moisture content up to 30% maximum within a depth of 15mm from the surface excluding a length of 300mm from each end, at the time of inspection during any time in the year. . If it is not possible to procure wood with moisture content 30% maximum limits, the procured wood shall be seasoned internally/externally so as to limit the moisture content.

8. FREEDOM FROM DEFECTS: Timber shall be free from the following defects: Brashness, splits across the grain, shakes, cup, spring, twist insect attack, any kind of decay (rot), visible 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

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.



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.

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.

Major axis of the knot should be taken as the diameter of the knot.

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.

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

- 9. INSPECTION:** Inspection shall be done at BHEL against relevant orders and specifications.
- 10. TEST CERTIFICATES:** The supplier shall furnish a certificate with each lot/consignment in support of the type of species of wood used, treatment (Fumigation/Chemical), if any, and moisture content.
- 11. MARKING:** The timber/ Boxes/ crates shall be marked/painted with unique nos. as provided by BHEL for identification.
- 12. 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 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.