



SPECIAL TERMS AND CONDITIONS FOR
(Tender Enquiry No. 1920-079E Dated 14.10.2019 Due date 30.10.2019)
ITEM: Wooden Packing Boxes and Planks for Domestic Use & Exports (Only for MSEs)

THIS TENDER IS THROUGH E-PROCUREMENT MODE.

Online bids in two parts are invited for the “Supply of Wooden Packing Boxes & Planks for Domestic Use & Exports on Annual rate contract basis”. The relevant documents can be downloaded from <https://bhel.abcprocure.com>.

Tender Enquiry No	1920-079E
Enquiry date	14.10.2019
Last time and date of tender submission	15:00 Hrs 30.10.2019
Tender opening time and date	15.30 Hrs 30.10.2019
Quotation Parts	<u>Two-part</u>
Item Description	Supply of Wooden Packing Boxes & Planks for Domestic use & Exports on Annual rate contract basis
Item Details	Refer list of items
Material Standard	As per attached TDC & Drawing
Validity of offer (In days)	<u>90 days from Part -1 opening</u>
Documents required along with supply	As per attached TDC
Other Terms	This Item is reserved for MSE.

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: Wooden Packing Boxes & Planks for Domestic Use & Exports.

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

“Bidders should primarily be engaged in manufacturing of wooden boxes/crates manufacturing/wooden items. Bidder/s to submit Udyog Aadhaar Memorandum (UAM) certificate as a proof for manufacturing of wooden boxes/crates manufacturing/wooden items.”



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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 dis-qualified.

SPECIAL TERMS

Online bids in two parts are invited from '**MICRO & SMALL ENTERPRISES (MSE's)**' only for supply of '**Wooden Packing Boxes & Planks for Domestic Use & Exports**' as per BHEL drawings/TDC on '**Annual rate contract basis**'. **Dimension of Boxes shall be as per drawing**. The relevant documents can be downloaded from <https://bhel.abcprocure.com>.

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.

S2. Delivery Schedule

Sequence of delivery shall be indicated by BHEL while placing the orders/through other communications. **Vendor shall be required to complete the order as per Purchase orders placed time to time within rate contract period as per monthly CFT commitment. 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.

S3. Tender terms & Conditions

These Special terms and conditions and General Contract Conditions (GCC) collectively form the part of tender terms and conditions

S4. 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.

S5. Part-I: Techno-Commercial bid should contain



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- a) The details/data/ information/ supporting certificates for MSE as per requirement. UAM to be submitted by vendor.
- b) Acceptance of Techno-Commercial terms and conditions should be attached next. This can be attached either by signing each page of terms and conditions & Drawings or a confirmation statement. Any deviation proposed by bidder shall be considered by BHEL at its own discretion; and if finally considered, shall carry loading factor at the discretion of BHEL.
- c) Monthly CFT commitment to be mentioned in bid

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.

S6. SECURITY DEPOSIT:

An amount equal to 1% of basic value of each invoice shall be deducted from running invoices. 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 tender.

S7. COUNTER OFFERS:

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. Counter Offers will be given for all items as per loading clause.

S8. LOADING:

100% Procurement of the tender value shall be made from MSE (Micro, Small Enterprises) firms. 20% from the above mentioned 100% procurement quantity shall be procured from MSE's owned by SC /ST's. If there are more than one MSE's owned by SC /ST's, quantity shall be equally divided. Failure to participate by any MSE owned by SC/ST's this 20% quantity shall be procured from other MSEs. All these benefits are subject to production of all statutory documents.

BHEL reserves the right to accept/reject any bid for any reason of past performance of bidder.



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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	50%	25%	15%	10%

After taking acceptance of counter offer from bidders: -

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

Any new vendor who had not supplied material in this category so far to BHEL Goindwal will be given first purchase order of value at Rs. 1 Lakh or upto one month CFT capacity commitment, whichever is lower. The delivery date of this Purchase Order shall be kept as 1 month. On successful completion of this purchase order only, further order will be released. This condition is applicable to any new vendor, if the vendor is L1 or has accepted counter offer at L1 rates.

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.

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:



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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.

S10. SPECIAL INSTRUCTIONS FOR EXPORTS (For item sl no 1 to 15 Only):

Marking on Wooden boxes is not required as per TDC. It is required against two projects. For one of project (BIFCL, Maitree) the marking shall be done as per below instructions. For Second project, it will be intimated at later stage but work content will be similar to above project.

1. The Supplier has to mark below content on one side (length-wise sides) of boxes. Supplier can Cover all width-wise space while marking as BHEL has not to write further anything on these sides. The marking shall be done with an indelible ink legibly and clearly. The marking has to be started after leaving 3” space on left side & 3” on top side. Size of letters shall be 1” for box type 3A, 5 and 1.5” for balance sizes.

**“BANGLADESH-INDIA FRIENDSHIP POWER COMPANY (PVT.) LIMITED,
2X660 MW MAITREE SUPER THERMAL POWER
PROJECT, BANGLADESH”**

EPC CONTRACTOR - BHARAT HEAVY ELECTRICALS LIMITED, INDIA



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2. Further below content has to mark on one side of box (length-wise) side. The marking has to be started after leaving 3” space on left side & 3” on top side. Size of letters shall be 1” for Box Type 3 and 1.5” for balance sizes.

DESTINATION:

PACKAGE NUMBER:

GROSS WEIGHT:

NET WEIGHT :

DIMENSIONS:

CONTRACT No: BIFPCL/EPC-MAIN PLANT/2016/01

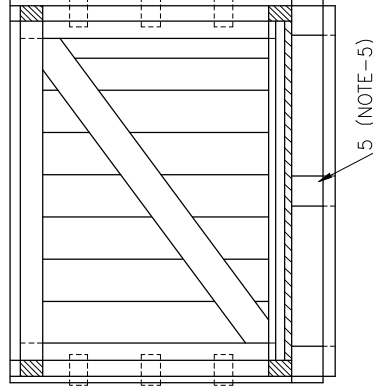
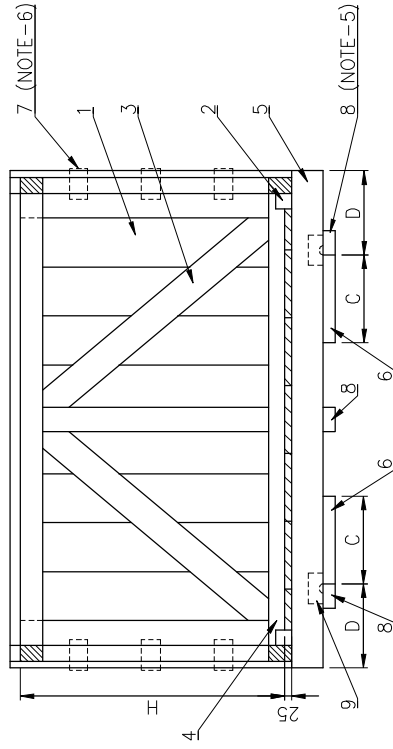
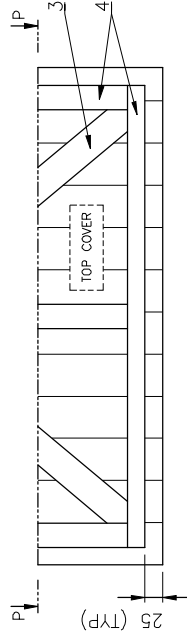
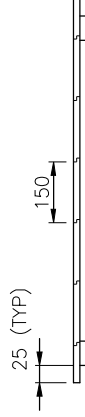
PURCHASER: BIFPCL, BANGLADESH

3. Supplier shall write his Firm name, Box serial No. & Invoice details on one side (width-wise). Size of letters shall be 1”.
4. Marking shall be clearly readable. It can be made by any mode of marking. If it is done with help of stencil, then it shall be finished with hand writing so that lettering is clearly readable.

LIST OF ITEMS						
Sr no	Material Code	Material Description	DRG No/Rev No	TDC No/Rev No	Tender Qty*	unit
1	GWE67035003	BOX NO 3A - EXPORT	2-SH-BW-023/00	TDC:WOOD: EXPORT/00	33	NO
2	GWE67035005	BOX NO 5 - EXPORT	2-SH-BW-023/00	TDC:WOOD: EXPORT/00	28	NO
3	GWE67035008	BOX NO 9A - EXPORT	2-SH-BW-023/00	TDC:WOOD: EXPORT/00	95	NO
4	GWE67035009	BOX NO 10A - EXPORT	2-SH-BW-023/00	TDC:WOOD: EXPORT/00	93	NO
5	GWE67035010	BOX NO 13A - EXPORT	2-SH-BW-023/00	TDC:WOOD: EXPORT/00	32	NO
6	GWE67035011	BOX NO 14A - EXPORT	2-SH-BW-023/00	TDC:WOOD: EXPORT/00	10	NO
7	GWE67035012	BOX NO 14B - EXPORT	2-SH-BW-023/00	TDC:WOOD: EXPORT/00	76	NO
8	GWE67035013	BOX NO 15 - EXPORT	2-SH-BW-023/00	TDC:WOOD: EXPORT/00	35	NO
9	GWE67035014	BOX NO 16 - EXPORT	2-SH-BW-023/00	TDC:WOOD: EXPORT/00	45	NO
10	GWE67035021	BOX NO 16B - EXPORT	2-SH-BW-023/00	TDC:WOOD: EXPORT/00	3	NO
11	GWE67035022	BOX NO 16C - EXPORT	2-SH-BW-023/00	TDC:WOOD: EXPORT/00	7	NO
12	GWE67035023	WOODEN PLANK 2"X4"X28" (INCHES)-EXPORT	-	TDC:WOOD: EXPORT/00	1500	NO
13	GWE67035024	WOODEN PLANK 2"X4"X32" (INCHES)-EXPORT	-	TDC:WOOD: EXPORT/00	1500	NO
14	GWE67035025	WOODEN PLANK 2"X4"X38" (INCHES)-EXPORT	-	TDC:WOOD: EXPORT/00	2000	NO
15	GWE67035026	WOODEN PLANK 2"X4"X50" (INCHES)-EXPORT	-	TDC:WOOD: EXPORT/00	200	NO
16	GWB67035001	Box no 2	4-V-4000-071B3	TDC:WOODENBOX/06	75	NO
17	GWB67035002	Box no 2A	4-V-4000-071B3	TDC:WOODENBOX/06	100	NO
18	GWB67035003	Box no 3A	2-SH-BW-022/13	TDC:WOODENBOX/06	325	NO
19	GWB67035004	Box no 4	2-SH-BW-022/13	TDC:WOODENBOX/06	40	NO
20	GWB67035005	Box no 5	2-SH-BW-022/13	TDC:WOODENBOX/06	500	NO
21	GWB67035006	Box no 6	2-SH-BW-022/13	TDC:WOODENBOX/06	225	NO
22	GWB67035007	Box no 7	2-SH-BW-022/13	TDC:WOODENBOX/06	150	NO
23	GWB67035008	Box no 9A	2-SH-BW-022/13	TDC:WOODENBOX/06	400	NO
24	GWB67035009	Box no 10A	2-SH-BW-022/13	TDC:WOODENBOX/06	575	NO
25	GWB67035010	Box no 13A	2-SH-BW-022/13	TDC:WOODENBOX/06	750	NO
26	GWB67035011	Box no 14A	2-SH-BW-022/13	TDC:WOODENBOX/06	425	NO
27	GWB67035012	Box no 14B	2-SH-BW-022/13	TDC:WOODENBOX/06	400	NO
28	GWB67035013	Box no 15	2-SH-BW-022/13	TDC:WOODENBOX/06	200	NO
29	GWB67035014	Box no 16	2-SH-BW-022/13	TDC:WOODENBOX/06	400	NO
30	GWB67035047	Box no 16B	2-SH-BW-022/13	TDC:WOODENBOX/06	15	NO
31	GWB67035044	Box no 16C	2-SH-BW-022/13	TDC:WOODENBOX/06	90	NO
32	GWB67035102	WOODEN PLANK 1"X4"X32" (INCHES)	-	TDC:WOODENBOX/06	2000	NO
33	GWB67035103	WOODEN PLANK 2"X4"X28" (INCHES)	-	TDC:WOODENBOX/06	20000	NO
34	GWB67035104	WOODEN PLANK 2"X4"X32" (INCHES)	-	TDC:WOODENBOX/06	20000	NO
35	GWB67035105	WOODEN PLANK 2"X4"X36" (INCHES)	-	TDC:WOODENBOX/06	20000	NO
36	GWB67035106	WOODEN PLANK 2"X4"X38" (INCHES)	-	TDC:WOODENBOX/06	20000	NO
37	GWB67035107	WOODEN PLANK 2"X4"X50" (INCHES)	-	TDC:WOODENBOX/06	5000	NO
38	GWB67035108	WOODEN PLANK 1"X4"X36" (INCHES)	-	TDC:WOODENBOX/06	2000	NO

* Quantity is indicative only

SECTION - PP



NOTES:

1. TO AVOID RAIN WATER ENTRY, THE INSIDE OF ALL SIDES EXCEPT BOTTOM SHALL BE FULLY COVERED BY POLYTHENE FILM (REFER LATEST APPLICABLE TDC).
2. SECURE THE ASSEMBLIES WITH ENOUGH SIDE SUPPORTS TO AVOID MOVEMENT OF ASSEMBLIES DURING TRANSIT.
3. PLANK SIZE: 20X150 MM FOR SL.NO. 1 TO 7
25X150 MM FOR SL.NO. 8 TO 15.
4. FOR SL.NO. 1 TO 5, ITEM-6 IS CONTINUOUS.
5. CENTER RUNNER AND ITEM-8 ARE APPLICABLE FOR SL.NO. 12, 13, 14, 15 ONLY.
6. ITEM-7 IS 2 NOS. (FOR SL.NO. 1 TO 9) AND 3 NOS. (FOR SL.NO. 10 TO 15) AT EACH VERTICAL CORNER.

SL. NO.	MATERIAL	BOX TYPE	DIMENSIONS				
			L	W	H	C	D
1	GWE67035003	3A	670	670	500	—	200
2	GWE67035004	4	710	630	600	—	200
3	GWE67035005	5	850	630	670	—	200
4	GWE67035006	6	1000	770	670	—	200
5	GWE67035007	7	1100	430	670	—	200
6	GWE67035008	9A	1250	570	710	300	200
7	GWE67035009	10A	1300	770	850	300	200
8	GWE67035010	13A	1500	650	710	300	200
9	GWE67035011	14A	1850	700	710	300	200
10	GWE67035012	14B	1850	700	1050	300	200
11	GWE67035013	15	2000	800	800	400	200
12	GWE67035014	16	2134	915	1220	400	200
13	GWE67035015	16A	2743	1220	1070	400	250
14	GWE67035021	16C	2520	1210	1320	400	250
15	GWE67035022	16B	2743	1220	1525	400	250

ITEM NO.	DESCRIPTION	SIZE (mm)	MATERIAL
1	SOFT WOOD PLANK	NOTE-3	WOOD
2	END TRAVERSE BAR	50 x 50	WOOD
3	DIAGONAL BRACE	75 x 25	WOOD
4	SOFT WOOD BATTERNS	75 x 25	WOOD
5	RUNNER	100 x 100	WOOD
6	RESTING BEAM	100 x 50	WOOD
7	SIDE PLATE	100 x 150 x1.5	M.S. SHEET
8	CROSS BEAM	100 x 50	WOOD
9	SLING PLATE	100 x 150 x1	M.S. SHEET

SL NO	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET GROSS (LBS)	DRAWING NO	ITEM NO
TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT CS								
		BHARAT HEAVY ELECTRICALS LTD., UNIT: INDUSTRIAL VALVE PLANT, CONDOM 54H18 - 14322.						
DEPT 565-120		SCALE NTS		WEIGHT (KG).		NO. OF ITEMS		
CODE						DRAWING NO.		
TITLE		WOODEN PACKING BOX (FOR EXPORT)				REV 00		
						2-SH-BW-023		
						Size A2		

	BHEL -IVP-Goindwal Quality Department Technical Delivery Conditions	DOC NO TDC:WOOD:EXPORT Rev:00 Rev date: 26.09.2018
Product: : Assembled Wooden boxes and loose wooden planks for Export		

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 for export purpose.

2. Wood Species:

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

Coniferous Wood:

Trade Name	Botanical Name
Fir	Abies pindrow
Deodar	Cedrus deodara
Chir	Pinus roxburghil
Kali	Pinus wallichians
Khasi Pine	Pinus khasya
Spruce	Picea smithiana boiss

3. Compliance With Standards:

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

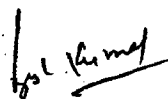
BHEL Corporate Packing Standard No.: AA 51401 for coniferous wood

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 90 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 approx. 100 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 be used.
- 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

	BHEL –IVP-Goindwal Quality Department Technical Delivery Conditions	DOC NO TDC:WOOD:EXPORT Rev:00 Rev date: 26.09.2018
Product: : Assembled Wooden boxes and loose wooden planks for Export		

7.7 Live Knots:

7.7.1 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.

7.7.2 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.

7.8 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: Major axis of the knot should be taken as the diameter of the knot

7.9 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.

7.10 Sap Wood: Permissible up to a maximum of 12 percent of the cross sectional area.

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:

3 — PLS. refer Special Instruction (S10.)

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-

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	BHEL –IVP-Goindwal Quality Department Technical Delivery Conditions	DOC NO TDC:WOOD:EXPORT Rev:00 Rev date: 26.09.2018
		Product: : Assembled Wooden boxes and loose wooden planks for Export

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

Inspection Format for wooden boxes and planks:									
Date of inspection:					Box inspection format no: Wooden box insp:001				
Supplier name									
Supplied batch details									
Observed dimensions									
Box type	L	W	H	C	D	Dimension	LENGTH	width	Thickness
						Plank			
						Resting			
						Beam			
						others			
SN	Type of check					Remarks			
1	Polythene film								
2	Corner and sling plates								
3	Planks overlapping								
4	Moisture content								
5	Size of nails used								
6	Defect details (If found above permissible limit as per clause No. 7)								
7	Identification and Marking								
8	Other remarks (If any) Type of wood (Name)								

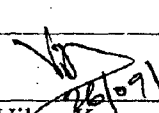
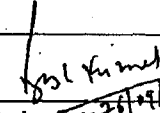
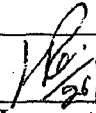
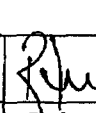
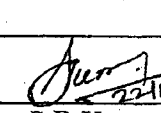
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Product: : Assembled Wooden boxes and loose wooden planks for Export		

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.

 26/09/18	 26/09/18	 26/09/18	 26/09/18	 22/10/18
Vikas Kumar Sr. Engr/QM	Rajesh Kumar Dy Mgr/CML	Harpreet Rai Sr DGM/CML	Rakesh Kumar Sr DGM/MM	S R Kenny AGM/QM &HSE
Prepared by		Reviewed by		Approved by



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>	<u>Botanical Name</u>	<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	Picea 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

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 mm Tolerance : +3 mm

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 mm 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

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PAGE 3 of 6

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 waness 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.

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 crack 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

PAGE 5 of 6

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 :

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 |

	CORPORATE PURCHASING SPECIFICATION		AA 514 20																			
			Rev. No. 02																			
			PAGE 1 OF 4																			
<u>MULTILAYERED CROSS LAMINATED POLYETHYLENE FILM</u>																						
1.0 <u>GENERAL:</u> 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 <u>APPLICATION:</u> Used for packing and allied purposes.																						
3.0 <u>COMPLIANCE WITH NATIONAL STANDARDS:</u> There is no Indian Standard covering this type of material.																						
4.0 <u>AVERAGE WEIGHT, DIMENSIONS AND TOLERANCES:</u>																						
4.1 <u>Average weight & Sizes:</u> Average weight (G.S.M), Width and Length shall be as stated on the order.																						
4.2 <u>Average Weight & Tolerance:</u> 45, 60, 70, 90, 105, 120, 150, 200, & 250 GSM with a tolerance of $\pm 10 \%$.																						
4.3 <u>Width and tolerance:</u>																						
4.3.1 <u>Preferred widths:</u> 900, 1000, 1500, 2000, 2500, 3000 and 3660 mm.																						
4.3.2 <u>Tolerance on width:</u>																						
<table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <th colspan="2" style="padding: 5px;">Width, mm</th> <th rowspan="2" style="padding: 5px;">Tolerance($\pm$) mm</th> </tr> <tr> <th style="padding: 5px;">Above</th> <th style="padding: 5px;">Upto & Includ.</th> </tr> <tr> <td style="text-align: center; padding: 5px;">900</td> <td style="text-align: center; padding: 5px;">1250</td> <td style="text-align: center; padding: 5px;">8</td> </tr> <tr> <td style="text-align: center; padding: 5px;">1250</td> <td style="text-align: center; padding: 5px;">2500</td> <td style="text-align: center; padding: 5px;">20</td> </tr> <tr> <td style="text-align: center; padding: 5px;">2500</td> <td style="text-align: center; padding: 5px;">3000</td> <td style="text-align: center; padding: 5px;">40</td> </tr> <tr> <td style="text-align: center; padding: 5px;">3000</td> <td style="text-align: center; padding: 5px;">3660</td> <td style="text-align: center; padding: 5px;">50</td> </tr> </table>						Width, mm		Tolerance($\pm$) mm	Above	Upto & Includ.	900	1250	8	1250	2500	20	2500	3000	40	3000	3660	50
Width, mm		Tolerance($\pm$) mm																				
Above	Upto & Includ.																					
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 BHOPAL	Issued Corp. R&D	Dt. of 1st Issue 1st October 1995																	
Dt.: 01.11.2008	Dt:	Year:																				

AA 514 20	CORPORATE PURCHASING SPECIFICATION	
Rev. No. 02		
PAGE 2 OF 4		

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: $\pm 10\%$.

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 **INSPECTION AT SUPPLIERS' WORKS:**

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.

AA 514 20	CORPORATE PURCHASING SPECIFICATION	
Rev. No. 02		
PAGE 4 OF 4		

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

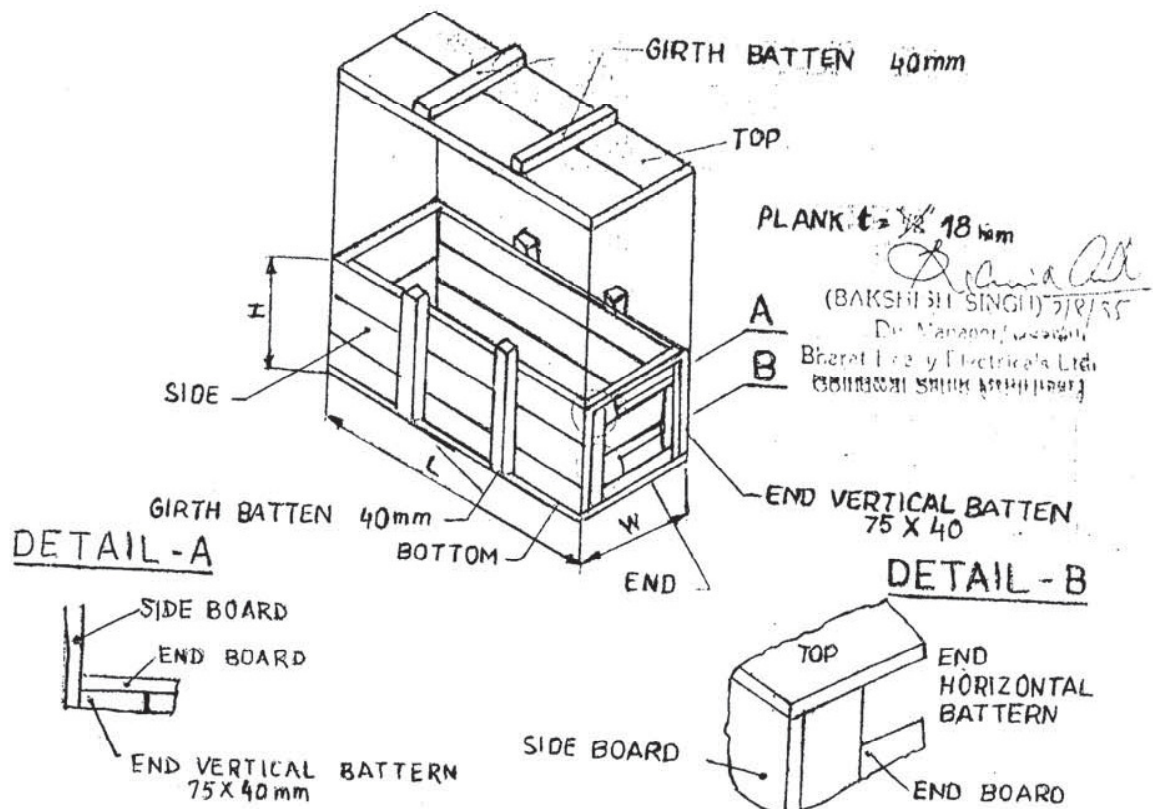
16.0 REJECTION AND REPLACEMENT:

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 REFERRED STANDARDS (Latest Publications Including Amendments) :

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



NOTES:-

1. ALL DIMENSIONS ARE IN mm.
2. L, W, H ARE INNER DIMENSIONS OF THE BOX.

TYPE NO				
	L	W	H	
1A	320	250	260	
1	320	250	430	
2	430	370	430	
2A	500	450	550	

	BHEL –IVP-Goindwal Quality Department Technical Delivery Conditions	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	Botanical Name
Fir	Abies pindrow
Deodar	Cedrus deodara
Chir	Pinus roxburghil
Kali	Pinus wallichians
Khasi Pine	Pinus khasya
Spruce	Picea smithiana boiss

Non Coniferous Wood:

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

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






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 be used.
- 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 $\geq$ 20 mm)

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

	BHEL –IVP-Goindwal Quality Department Technical Delivery Conditions	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.

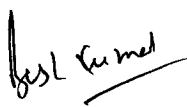
9. Identification and Marking:

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.:



BHEL –IVP-Goindwal
Quality Department
Technical Delivery Conditions

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:

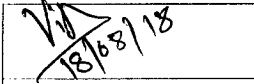
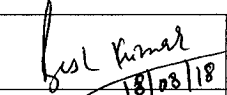
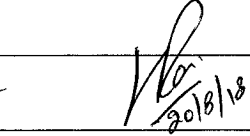
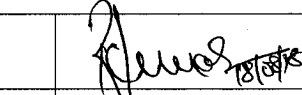
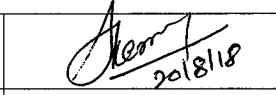
Inspection Format for wooden boxes and planks:									
Date of inspection:					Box inspection format no: Wooden box insp:001				
Supplier name									
Supplied batch details									
Observed dimensions									
Box type	L	W	H	C	D	Dimension	LENGTH	width	Thickness
						Plank			
						Resting Beam			
						others			
SN	Type of check		Remarks						
1	Polythene film								
2	Corner and sling plates								
3	Planks overlapping								
4	Moisture content								
5	Size of nails used								
6	Defect details (If found above permissible limit as per clause No. 7)								
7	Identification and Marking								
8	Other remarks(If any)								

	BHEL –IVP-Goindwal Quality Department Technical Delivery Conditions	DOC NO TDC:WOODENBOX: Rev:06 Rev date: 18.08.2018
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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
Prepared by		Reviewed by		Approved by



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:

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IS: 6662 – 1993
Groups III & IV : Timber Species Suitable For Wooden Packaging

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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>	<u>Botanical Name</u>	<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	Picea 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

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 mm Tolerance : +3 mm

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 mm 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

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PAGE 3 of 6

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 waness 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.

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 crack 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

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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 :

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 |



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 tomentosa
Murtenga	Bursera serrata
Nangal	Mesua ferrea
Pillamarudu	Terminalia paniculata
Sal	shorea robusta

Revisions:

Clause 6.2.3 of MOM of WG (T&PM)

APPROVED:

INTERPLANT MATERIAL RATIONALISATION
COMMITTEE – MRC(T&PM)

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Dt:

Year:2018



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: $+3$ mm
 -1 mm

6.2.3 Length

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

Tolerance : $\pm 2\%$ 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:

- 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.
- The width shall be measured at the narrowest place in millimetres and shall be rounded off to the nearest lower one millimetre.
- The thickness shall be measured at the narrowest place in millimetres and shall be rounded off to the nearest lower one millimetre.
- 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

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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 waness 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.

**10 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 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 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 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:

Width, mm		Tolerance($\pm$) mm
Above	Upto & Includ.	
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**
BHOPAL**Issued**
Corp. R&D**Dt. of 1st Issue**
1st October 1995**Dt.: 01.11.2008****Dt:****Year:**

AA 514 20	CORPORATE PURCHASING SPECIFICATION	
Rev. No. 02		
PAGE 2 OF 4		

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

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11.0 PHYSICAL PROPERTIES:

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

Tolerance: $\pm 10\%$.

12.0 MECHANICAL PROPERTIES:

12.1 Tensile Strength at Break:

Direction N/mm^2 , 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 INSPECTION AT SUPPLIERS' WORKS:

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.

**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 REJECTION AND REPLACEMENT:

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 REFERRED STANDARDS (Latest Publications Including Amendments) :

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

Documents submitted with the offer shall be signed and stamped in each page by authorized representative of the bidder.

G1. 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.

G1.1 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 tender please handover quotation to Sh Rakesh Kumar/ SDGM/Head-MM or Sh Gurcharan Singh / AGM-Operations & MM. [Contact: 01859 224 615/631]. Bid can be send to following address:

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

G1.2 INSTRUCTION TO BIDDER (In case of E-Procurement)

Interested bidders/Suppliers shall submit their offer through e-Procurement mode at <https://bhel.abcpurchase.com>. Offers in any other mode will not be accepted.

For Enterprise Procurement System (EPS) Bidders/Suppliers are requested to follow these steps:

a. Requirements

1. Computer with good Internet Connection.
2. Operating System should be Windows Vista / Windows 7 and above.
3. Web Browsers: Internet Explorer 9.0 (32-bit Browser only) & above

b. Mandatory Requirements:

Suppliers interested for registration for BHEL Open Tenders should have a valid DSC (Digital Signature Certificate) before Proceeding forward for Registration. Herein a Valid DSC refers to a Class-II/III Digital Signature Certificate (DSC) for Signing & Encryption (Required both digital signature certificate: Signing & Encryption) of bids issued by any of the valid Certifying Authorities (approved by Controller of Certifying Authorities) in India. Valid Digital Signature Certificate (DSC) must be installed in a computer system from where you want to access the website.

For Unregistered Suppliers in EPS:

Procedure for Online Registration in EPS for Open Tender Suppliers for BHEL. Please follow the below steps for registration: -

1. Click Register Button (Top of the Screen).



General Contract Conditions (GCC) of MM Tenders

[Address: BHEL Industrial Valve Plant: 433, Industrial Complex, Goindwal Sahib, Distt Tarn Taran, Punjab-143422]

2. Please input your organization PAN No (in case of Indian supplier) or select your "country" in case you are an overseas Supplier.
3. Select Units to participate in.
4. Fill up Company details.
4. Key in your desired login id If you have registered by keying in PAN No. then your desired login id will be prefixed by "OTI", In case of overseas suppliers it will be also prefixed with "OTI".
5. Fill in the Captcha code & agree to the terms & conditions and privacy policy of this website and click SUBMIT.

Once the above steps are completed, contact to M/s eProcurement Technologies Limited for ID Activation. M/s e Procurement Technologies limited, Ahmedabad will activate your ID within 2 business hours. After registering, follow the steps provided in "For Registered Supplier" to view RFQ.

NB: - 1 BHEL Administrator or user will have no role for approving Registration and Open Tenders and DSC for any supplier who has registered himself from the front END which is in case of OT.

For Registered Supplier in EPS:

1. Supplier visits EPS home page
2. Supplier Login in with their user id and password
3. Search the RFQ ID and views it.
4. Attaches themselves to the RFQ by clicking the "I/We wish to participate".
5. Supplier fills the bid template and makes necessary attachments
6. Supplier submits their bid by clicking Sign, Encryption & Save button.

In any problem is faced by supplier while login/registration in EPS (<https://bhel.abcpocure.com>) and any other assistance, please contact the support team of M/s e Procurement Technologies limited, Ahmedabad as per details mentioned in table below: -

Name	Contact Nos.	e-mail ID	Role	Location
Mukunthan	+91 6353215001	Trichy.bhel@eptl.in	Support Executive	Trichy
Swapnil Hamilton	+91 7940270549	swapnil.h@eptl.in	Support Executive	HO – Ahmedabad
Hardik Oza	+91 7940270560	Hardik.oza@eptl.in	Support Executive	HO – Ahmedabad
Ankur Bhatt	+91 7940270590	ankur.bhatt@eptl.in	Support Executive	HO – Ahmedabad
Prashant Rajyaguru	+91 7940270545	prashant@eptl.in	Asst. Manager – Implementation & Support	HO – Ahmedabad
Dharam Rathod	+91 7940270596	dharam@eptl.in	Manager – Implementation & Support	HO – Ahmedabad
Pradip Parmar	+91 7940270532	pradip@eptl.in	Sr Mgr – Implementation & Support	HO – Ahmedabad
Devang Patel	+91 7940270576	devang@eptl.in	Sr Manager – Implementation & Support	HO – Ahmedabad

G2 OTHER IMPORTANT INFORMATION RELATED TO E-PROCUREMENT TENDERS

1. 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.
2. The user should complete all the processes and steps required for bid submission. The successful bid submission can be ascertained once acknowledgement is given by the system through bid submission number after completing all the processes and steps. BHEL and M/s e Procurement Technologies limited will not be responsible for incomplete bid submission by users. Users may also note that the incomplete bids will not be saved by the system and are not available for the Purchaser for processing.
3. 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.
4. 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.
5. 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. In the event of more than one vendor becoming L1 for the item, the enquiry quantity will be shared equally among all the L1 vendors.
6. 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.
7. 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.

G3 PRICE BASIS

- a. Order of enquiry item sl. No. shall be maintained in the quotation.
- b. The rates quoted shall be firm and fixed. No price variation is proposed and allowed.
- c. Rates quoted should be F.O.R Goindwal basis. If bidder has quoted Ex Works, loading shall be done as per BHEL discretion for tender evaluation.

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

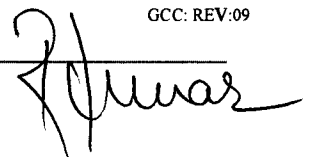
G4 VALIDITY OF OFFERS:

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 extension of tender opening date, the validity shall be suitably revised.

G5 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

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Enquiry. National & International material Standards shall have to be arranged by vendors themselves.

G6 REPLACEMENT OF REJECTION

If the material is rejected due to defective workmanship during inspection or at the time of actual use, within the guarantee period (i.e. as per clause 13), 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, qty 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.

G7 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 to reconcile the pending PO statement every month/frequently. BHEL will give pending PO statement every month. This can also be viewed at Portal (<http://vis.bheltry.co.in/mm/index.jsp>).

G8 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.

G9 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.

G10 TERMS OF PAYMENT:

- a. 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.
- b. 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.
- c. GST registration number is to be submitted by qualified vendor as per GST law.
- d. It is mandatory to mention proper material codes in the invoices and separate invoices to be raised for different POs.

e. BHEL releases payment through EFT mode ONLY. Necessary details may please be submitted by filling required format before release of payment.

f. Conditions relating to release of GST portion:

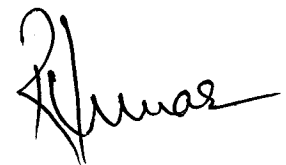
Payment of GST portion will be released to vendor only upon completion of statutory requirement and further subject to following:

The reimbursement of GST portion of invoice shall be released only upon: -

1. vendor declaring such invoice in his GSTR-1 and
 2. receipt of goods and Tax invoice by BHEL and
 3. Confirmation of payment of GST thereon by vendor on GSTN portal.
 4. 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.
- In case 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.
 - 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.

G11 AVAILING INPUT TAX CREDIT (ITC) BY BHEL:

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.



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G12 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.

G13 INSPECTION

- All required tests as called in referred material standard/BHEL/TDC/drawing etc shall be carried out by vendor at no extra cost. **BHEL may decide to inspect itself/arrange third party at vendors' works itself as and when necessary with prior intimation to the vendor.** No additional charges shall be claimed for such inspections.
- Third party inspection charges will be borne by BHEL. Moreover, all required infrastructure (testing, tools etc) have to be arranged by supplier.
- Vendor will give inspection call sufficiently in advance considering the delivery period stipulated in the purchase order.**
- Material Test Certificates (MTC), Inspection reports and Compliance/Guarantee Certificate are to be provided along with the supplies.
- Latest applicable revisions of standards/procedures to be referred. International/National standards are to be arranged by vendor.
- 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.
- 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.
- 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.

G14 PREFERENCES FOR MSE's

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", 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 along with the offer UAM (Udyog Aadhaar Memorandum), attested copies of either EM II certificate having deemed validity (five years from the date of issue of acknowledgement in EM II) or valid NSIC certificate or EM II certificate along with attested copy of a CA certificate (Format enclosed at Annexure -1 where deemed validity of EM II certificate of five years has expired) applicable for the relevant financial year (latest audited). Date to be reckoned for determining the deemed validity will be the date of bid opening (Part 1 in case of two part bid). Non submission of such documents 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 submitted before price bid opening. If the tender is to be submitted through e-procurement portal, then the above required documents are to be uploaded on the portal. Documents should be notarized or attested by a Gazetted officer.

G15 GUARANTEE/WARRANTEE

Vendor shall give a guarantee 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.

G16 PENALTY 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% per week or part thereof subject to a maximum of 10.0 %.

If any vendor does not accept LD ½% 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).

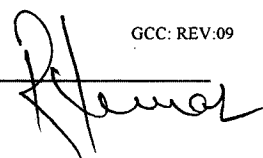
BHEL reserves the right to receive or not receive the material after the due date of PO. Applicable GST shall also be recovered from suppliers/contractors on LD amount. For this Debit note will be issued by BHEL indicating the respective supply invoice number.

G17 RISK PURCHASE

BHEL shall be entitled to terminate the contract/pending POs at any stage and to purchase elsewhere at the risk and cost of the vendor, either the whole of the goods or any part thereof which the supplier has failed to deliver or dispatch within the time stipulated as aforesaid. Vendor shall be liable for the losses, which BHEL may sustain by way of such risk purchase.

G18 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.





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G19 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.

G20 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.

G21 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.

G22 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.

G23 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.

G24 WORDS AND FIGURES

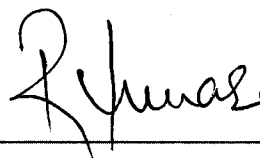
- a. If, in the price structure quoted for the required goods/ services/ works, there is discrepancy between the unit price and the total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly, unless in the opinion 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.
- b. 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
- c. 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.
- d. 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.
- e. 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.
- f. All overwriting/cutting, etc will be numbered by bid opening officials and announced during bid opening.

G25 GENERAL

- a. 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.
- b. 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.
- c. 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.
- d. If possible, please submit soft copy of price quotation [copied on a blank CD of standard make] put in the sealed offer.
- e. 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.
- f. BHEL may increase/decrease item/s based on BHEL requirement before price bid opening. Suitable price implication may be asked from suppliers.
- g. 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.
- h. 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.
- i. Any term is special tender terms and conditions will supersede the GCC.
- j. BHEL reserves the right to negotiate with L1 bidder/s.

G26 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 www.bhel.com.



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G27 DISCLAIMER CLAUSE: (Only for E procurement)

Neither the Organization (Bharat Heavy Electricals Ltd.) nor the service provider (M/s e Procurement Technologies limited) is responsible for any failure of submission of bids due to failure of internet or other connectivity problems or reasons thereof.

G28 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 <http://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.

G29 REVERSE AUCTION

BHEL reserves the right to go for Reverse Auction (RA) (Guidelines as available on www.bhel.com) instead of opening the sealed envelope price bid, submitted by the bidder. This will be decided after techno-commercial evaluation. Bidders to give their acceptance with the offer for participation in RA. Non-acceptance to participate in RA may result in non-consideration of their bids, in case BHEL decides to go for RA.

Those bidders who have given their acceptance to participate in Reverse Auction will have to necessarily submit 'Process compliance form' (to the designated service provider) as well as 'Online sealed bid' in the Reverse Auction. Non-submission of 'Process compliance form' or 'Online sealed bid' by the agreed bidder(s) will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines for suspension of business dealings with suppliers/ contractors (as available on www.bhel.com).

The bidders have to necessarily submit online sealed bid less than or equal to their envelope sealed price bid already submitted to BHEL along with the offer. The envelope sealed price bid of successful L1 bidder in RA, if conducted, shall also be opened after RA and the order will be placed on lower of the two bids (RA closing price & envelope sealed price) thus obtained. The bidder having submitted this offer specifically agrees to this condition and undertakes to execute the contract on thus awarded rates.

If it is found that L1 bidder has quoted higher in online sealed bid in comparison to envelope sealed bid for any item(s), the bidder will be issued a warning letter to this effect. However, if the same bidder again defaults on this count in any subsequent tender in the unit, it will be considered as fraud and will invite action by BHEL as per extant guidelines for suspension of business dealings with suppliers/ contractors (as available on www.bhel.com).

G30 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 www.bhel.com.

1.0 Integrity commitment, performance of the contract and punitive action thereof:

1.1. Commitment by BHEL:

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Tarn Taran, Punjab-143422]

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 commit to take all measures to prevent corruption and will not directly or indirectly influence any decision or benefit which he is not legally entitled to nor will act or omit in any manner which tantamount to an offence punishable under any provision of the Indian Penal Code, 1860 or any other law in force in India.

1.2.2. The 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.

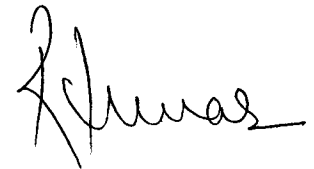
1.2.3. The bidder/ supplier/ contractor will perform/ execute the contract as per the contract terms & conditions and will not default without any reasonable cause, which causes loss of business/ money/ reputation, to BHEL.

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 [www. bhel.com](http://www.bhel.com) and/or under applicable legal provisions

G31 PREFERENCE TO MAKE IN INDIA

For this procurement, Public Procurement (Preference to Make in India), Order 2017 dated 15.06.2017, 28.05.2018 & 29.05.2019 and subsequent Orders issued by the respective Nodal Ministry shall be applicable even if issued after issue of this NIT before finalization of contract/PO/WO against this NIT.

In the event of any Nodal Ministry prescribing higher or lower percentage of purchase preference and / or local content in respect of this procurement, same shall be applicable.



Certificate by Chartered Accountant on letter head

This is to Certify that M/S ,
(hereinafter referred to as 'company') having its registered office at
is registered under MSMED Act 2006, (Entrepreneur
Memorandum No (Part-11) dtd:.....,
Category:..... (Micro/Small)). (Copy enclosed).

Further verified from the Books of Accounts that the investment of the company as per the latest audited financial year as per MSMED Act 2006 is as follows:

1. **For Manufacturing Enterprises:** Investment in plant and machinery (i.e. original cost excluding land and building and the items specified by the Ministry of Small Scale Industries vide its notification No.S.O.1722(E) dated October 5, 2006 :
Rs.....Lacs
2. **For Service Enterprises:** Investment in equipment (original cost excluding land and building and furniture, fittings and other items not directly related to the service rendered or as may be notified under the MSMED Act, 2006:
Rs.....Lacs

(Strike off whichever is not applicable)

The above investment of Rs.....Lacs is within permissible limit of Rs.....Lacs forMicro / Small (Strike off which is not applicable)
Category under MSMED Act 2006.

Or

The company has been graduated from its original category {Micro/ Small} (Strike off which is not applicable) and the date of graduation of such enterprise from its original category is (dd/mm/yyyy) which is within the period of 3 years from the date of graduation of such enterprise from its original category as notified vide S.O. No.3322(E) dated 01.11.2013 published in the gazette notification dated 04.11.2013 by Ministry of MSME.

Date:

(Signature)

Name-

Membership number-

Seal of Chartered Accountant