



Bharat Heavy Electricals Limited

Tender No: - 650330001/TE/D/49

Date 08.10.2013

TENDER NOTICE

Sealed Tenders are invited in **two part bid system**, for the Procurement of Various types of Packing material as per specifications for Fabrication Plant.

General-

Date/ time of Collection of Tender document:-

From the Administrative Building, FP from **08/10/2013 to 31/10/2013 up to 1400 Hrs**

- **Submission of Tender:** Till 14.30 hrs **31/10/2013**
- **Opening of Techno – Commercial bid** **31/10/2013 at 15.00 Hrs.**
- Bid's to be deposited in the Tender Box, kept in the Administrative Building, (FP)
Bharat Heavy Electricals Ltd
Industrial Area Jagdishpur
Dist. Sultanpur-PIN-227817, UP.

1. Techno-Commercial Bid to be in envelope No.1.-Super scribe this envelope as-**Tender Enquiry no. 650330001/TE/D/49 Techno-Commercial Bid** with due date of opening.
2. Price bid to be kept in other envelope as **TE no: 650330001/TE/D/49 "Price bid"** with due date of opening.
3. Envelope no.1 & no.2 are to be kept in a bigger envelope no.3 **Super scribe this envelope as- Tender Enquiry no. 650330001/TE/D/49** with due date of opening.
4. Offers with deviations from terms and conditions of the tender may not be considered.
5. BHEL takes no responsibility for any delay / loss of documents or correspondence sent by courier or post.
6. BHEL reserves the right to accept or reject any of the bid/all bids with or without deviation, or cancel / withdraw the invitation for bid without assigning any reason whatsoever and in such case no bidder shall have any claim arising out of such action by BHEL.
7. Duly completed offers should reach following address on or before due date and time to AGM-MM, CSU & FP, BHEL, Industrial Area Jagdishpur, Dist. Sultanpur, and UP.PIN-227817. Email-amit@bhelesufp.in. **Offer shall not be accepted through mail.**
8. Tender received after the specified time of their "SUBMISSION" will be treated as late tender and shall not be considered under any circumstances.
9. **Supplier shall quote for all the items in the enclosed price bid format only.**
10. BHEL reserves the right to decide whether evaluation will be on overall basis or item wise basis, the final decision for the same shall be taken only after Techno commercial evaluation of the offers submitted by Vendor. In case any vendor do not agree to BHEL decision then the offer of vendor will not be considered for further processing.

The tender document consists of four parts-

Section – 1: Techno-Commercial bid consists

- *Technical specification
- * Commercial requirement
- * Check List (Vendor must fill)
- * Un-price bid format (Copy of Price Bid without price part only **fill for freight, insurance, taxes & duties**)

Centralized Stamping Unit & Fabrication Plant, Jagdishpur Industrial Area, Distt. Sultanpur (UP) 227 817, INDIA

Tel.: ++91 5361 27 1376; FAX: 27 0057; web site: www.bhel.com

Registered & Corporate Office: "BHEL House", Siri Fort, New Delhi 110 049

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Bharat Heavy Electricals Limited

Section – 2: Price bid format

Tender No: - 650330001/TE/D/49

Section-1

Specifications of Packnig Materials

Sl. No.	ITEM DESCRIPTION	UNIT	QTY
1	BUBBLE PACKING ROLL(SIZE OF ROLL-1000MM X 100 MTR)	ROLL	30
2	PACKING TAPE BROWN COLOUR(SIZE OF ROLL-2 INCH X 45 M)	ROLL	200
3	VCI PACKING PAPER (SIZE OF ROLL-1000 MM X 100 MTR) (Corporate Spec.AA51406)	ROLL	25
4	TARAPULIN SHEET 140-150 MICRON,WIDTH 10 FEET	KG	2000
5	PACKING POLYTHENE (WIDTH-10 FT,THK 14-150 MM) (Corporate Spec.AA51408)	KG	2000
6	M.S.WIRE DIA 0.5 MM FOR PACKING	KG	15
7	FEVICOL	KG	200

NOTE: SAMPLE REQUIREMENT: Vendor to provide the sample of each items along with the Techno commercial offer. The offer without sample shall be liable to be rejected. BHEL's decision on the rejection of vendor shall be binding on the vendors.

Commercial conditions

Scope of Supply: Supply of above items on FOR, BHEL (FP), Stores, Jagdishpur basis.

- 1. Type of Enquiry:** Two Bid systems (Techno-Commercial Bid & price bid)
- 2. Evaluation:** On the basis of delivered cost at BHEL (FP), Stores, i.e Total cost to BHEL inclusive of all loadings, if any.

BHEL reserves the right to decide whether evaluation will be on overall basis or item wise basis, the final decision for the same shall be taken only after Techno commercial evaluation

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of the offers submitted by Vendor. In case any vendor do not agree to BHEL decision then the offer of vendor will not be considered for further processing

3. **Sample Requirement: Applicable** Vendor to provide the sample of each items along with the Techno commercial offer. The offer without sample shall be liable to be rejected. BHEL's decision on the rejection of vendor shall be binding on the vendors
4. **Terms and conditions:**
 - 3.1 Basic price indicated is exclusive of ED and other taxes
 - 3.2 The prices TO BE firm and inclusive of all taxes & duties, freight & insurance etc . Supplier will Submit billing breakup along with the offer.
 - 3.3 Excise duty, VAT/CST (against from C) will be payable.
 - 3.4 Service tax, Octroi, Entry & road tax: Extra as applicable and shall be paid on submission of documentary proof.
 - 3.5 TIN No will be submitted by Supplier.
 - 3.6 The consignment shall be supplied F.O.R, BHEL, FP, Jagdishpur, Dist-Sultanpur, U.P, PIN-227817
 - 3.7 Date of receipt at BHEL, Jagdishpur works shall be treated as date of delivery.
 - 3.8 **Delivery-** within **03 (Three)** from Issue of P.O/LOI. However early delivery is acceptable.
4. **Delivery terms-FOR, BHEL (FP) Stores, Jagdishpur basis**
5. **Terms of Payment-**
 - i) 100% payment shall be made within 30 days from receipt and acceptance of the material.
 - ii) All bank charges shall on vendors account
 - iii) Supplier should submit the original tax invoice.
 - iv) Supplier should mention their TIN no. on the bill.
 - v) Original excise duty gate pass shall be submitted by the vendor to enable purchaser to claim Cenvat credit.
 - vi) Excise duty and CST shall be paid as applicable on the date of supply.
 - vii) Any other tax applicable, if any shall be payable on submission of documentary proof.
6. **Penalty for Delay:** LD is applicable for all suppliers which is 0.5% of the value of un-dispatched portion of the items for each week of delay from delivery schedule limited to maximum of 10%.
7. **Other term:**

Vendor should ensure that:

 - a) Invoice must indicate Purchase order no, Customer name i.e. M/s BHEL FP, Jagdishpur and must be sent directly to the officials who has issued the Purchase Order(**purchase officer**) through courier along with **other non negotiable dispatch documents** along with ink signed TC & Guarantee/warranty certificate(if applicable)immediately after shipment of material
 - b) Another set of **non negotiable documents** like challan, lorry receipt, packing list, test certificate, guarantee certificate ink signed(as applicable) as per PO must be sent with material along with copy of PO.

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c). Reverse Auction (RA):

BHEL reserves the right to go for Reverse Auction (RA) instead of opening the sealed envelope price bid, submitted by the bidder. This will be decided after techno-commercial evaluation. All bidders to give their acceptance 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.

In case BHEL decides to go for Reverse Auction, only those bidders who have given their acceptance to participate in RA will be allowed to participate in the Reverse Auction. Those bidders who have given their acceptance to participate in Reverse Auction will have to necessarily submit „online sealed bid“ in the Reverse Auction. Non-submission of „online sealed bid“ by the bidder will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines in vogue.

- Information and General terms and conditions governing RA are given below.
- (i) For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate.
 - (ii) BHEL will engage the services of a Service Provider who will provide all necessary training and assistance/ demonstration before commencement of on line bidding on internet.
 - (iii) BHEL will inform the Vendors in writing the details of Service Provider to enable them to contact for training/ demonstration.
 - (iv) Business rules like event date, time, start price, bid decrement, extensions etc. also will be communicated through Service Provider for compliance.
 - (v) Vendors have to fax the Compliance form in the prescribed format (provided by Service provider) before start of Reverse Auction. Without this, the vendor will not be eligible to participate in the event.
 - (vi) BHEL will provide the calculation sheet which will help the Vendors to arrive at "Total Cost to BHEL" by including items like Packing & Forwarding charges, Taxes and Duties, Freight charges, Service Tax for Services and loading factors (for non-compliance to BHEL Commercial terms & conditions, if any) for each of the Vendors to enable them to fill-in the price and keep it ready for keying in during the Auction.
 - (vii) Reverse auction will be conducted on a scheduled date & time.
 - (viii) At the end of Reverse Auction event, the lowest bid value will be known on the network.
 - (ix) The lowest bidder has to fax the duly signed filled-in prescribed format as provided to BHEL through Service Provider within 24 hours of Auction without fail.
 - (x) Any variation between the on-line bid value and the signed document will be considered as sabotaging the tender process and will invite disqualification of vendor to conduct business with BHEL as per prevailing procedure.
 - (xi) In case BHEL decides not to go for Reverse Auction procedure for this tender enquiry, the Price bids already submitted and available with BHEL shall be opened as per BHEL's standard practice.

8.Rejections: The supplier shall arrange replacement/repair within one month from the date of rejection intimation upon failure on supplier's part to comply. BHEL will take whatever

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appropriate action they may think fit in addition to repair/return of rejected material at the cost and risk of the supplier.

9. Risk purchase: In case of delays in supply of materials/defective materials not fulfillment of any other terms and conditions given in the purchase order, the purchase may cancel the full or part thereof, and may also make purchase of such material from elsewhere/alternate source at the risk and cost of supplier.

10. Arbitration: Any dispute arising out of this contract shall be referred to the sole arbitration of GM- CSU&FP, BHEL, Jagdishpur. Its award shall be final and binding on the parties. The venue of arbitration in all cases shall be at Administrative building, BHEL, CSU & FP, Jagdishpur.

11. Jurisdiction - In case of any suit or other legal proceedings arising under or relating to the contract, the Jurisdiction of Sultanpur (UP) district court shall apply.

12. Note: MSE SUPPLIERS CAN AVAIL THE INTENDED BENEFITS ONLY IF THEY SUBMIT ALONG WITH OFFER, ATTESTED COPIES OF EITHER EM-II CERTIFICATE HAVING DEEMED VALIDITY (TWO YEARS FROM DATE OF ISSUE OF ACKNOWLEDGEMENT IN EM-II) OR VALID NSIC CERTIFICATE OR EM-II CERTIFICATE ALONG WITH CA CERTIFICATE (FORMAT ENCLOSED AS PER ANNEXURE) APPLICABLE FOR THE YEAR , CERTIFYING QUANTUM OF INVESTMENT IN PLANT & MACHINERY WITHIN PERMISSIBLE LIMIT AS PER THE ACT OF RELEVANT STATUS (MICRO & SMALL) WHERE DEEMED VALIDITY OF EM-II IS OVER. DATE OF RECKONED FOR DETERMINING TE DEEMED VALIDITY WILL BE THE LAST DATE OF TECHNICAL BID SUBMISSION. NON SUBMISSION OF SUCH DOCUMENTS WILL LEAD TO CONSIDERATION OF THEIR BIDS AT PAR WITH OTHER BIDDER & MSE STATUS OF SUCH SUPPLIERS SHALL BE SHIFTED TO NON MSE SUPPLIER TILL THE SUPPLIER SUBMITS THE DOCUMENTS.

13. Consignee address:

The Stores Officer (FP)
Bharat Heavy Electricals Ltd,
Fabrication Plant,
Industrial Area Jagdishpur,
Dist. Sultanpur (UP) – 227817

14. Billing address shall be as follows

The Purchase Officer (FP)
Fabrication Plant
Bharat Heavy Electricals Limited
Industrial Area, Jagdishpur
Distt. Sultanpur, 227817, UP

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Note:

1. This tender enquiry is 2 parts tender. Techno-commercial bid (part-1) & price bids (part-2) should be submitted in separate envelopes. These envelopes should be submitted in a common envelope. Techno-Commercial bid shall contain detailed Technical specification, drawing technical documents, catalogs, taxes & duties Payment terms, delivery term, delivery period, validity offer ,Replica of price bid(copy of price bid wit out price part) etc. the confirmation to the special terms & condition must be submitted along with Techno-commercial bid.



Bharat Heavy Electricals Limited

UN PRICE BID

Unprice bid: The Unprice bid is to be submitted in the following format: -

Tender No: **650330001/TE/D/49**

Sl. No.	Material Description	Unit	Qty Required	Unit Rate (INR)	Amount (INR)
1	BUBBLE PACKING ROLL(SIZE OF ROLL-1000MM X 100 MTR)	ROLL	30		
2	PACKING TAPE BROWN COLOUR(SIZE OF ROLL-2 INCH X 45 M)	ROLL	200		
3	VCI PACKING PAPER (SIZE OF ROLL-1000 MM X 100 MTR) (Corporate Spec.AA51406)	ROLL	25		
4	TARAPULIN SHEET 140-150 MICRON,WIDTH 10 FEET	KG	2000		
5	PACKING POLYTHENE (WIDTH-10 FT,THK 14-150 MM) (Corporate Spec.AA51408)	KG	2000		
6	M.S.WIRE DIA 0.5 MM FOR PACKING	KG	15		
7	FEVICOL	KG	200		
8	Total				
9	Excise duty (Cenvatable) in %				
10	VAT/CST(@---- against from C)				
11	Freight+ Insurance				
12	Other Expenses(if any)				
13	Grand Total				

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Total Cost to BHEL = in figures

in words

Note-

- i. No condition / any statement should be given in the price bid. Any condition / statement may invalidate the price bid. Any clarification / information may be sought before submitting the tender.
- ii. Price bid will be opened only for those bidders who qualify the technical bid.
- iii. Offers shall be evaluated item wise and accordingly separate Purchase orders shall be placed to item wise lowest bidder.
- iv. Validity for Offer: **90 days** from date of techno commercial bid opening
- v. **SAMPLE REQUIREMENT:** Vendor to provide the sample of each items along with the Techno commercial offer. The offer without sample shall be liable to be rejected. BHEL's Decision on the rejection of vendor shall be binding on the vendors.

Seal and Sign of Bidder

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Section - 2

PRICE BID

Price bid: The price bid is to be submitted in the following format: -

Tender No: **650330001/TE/D/49**

Sl. No.	Material Description	Unit	Qty Required	Unit Rate (INR)	Amount (INR)
1	BUBBLE PACKING ROLL(SIZE OF ROLL-1000MM X 100 MTR)	ROLL	30		
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6	M.S.WIRE DIA 0.5 MM FOR PACKING	KG	15		
7	FEVICOL	KG	200		
8	Total				
9	Excise duty (Cenvatable) in %				
10	VAT/CST(@---- against from C)				
11	Freight+ Insurance				
12	Other Expenses(if any)				
13	Grand Total				

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Bharat Heavy Electricals Limited

Total Cost to BHEL = _____ in figures

_____ in words

Note-

- i. No condition / any statement should be given in the price bid. Any condition / statement may invalidate the price bid. Any clarification / information may be sought before submitting the tender.
 - ii. Price bid will be opened only for those bidders who qualify the technical bid.
 - iii. Offers shall be evaluated item wise and accordingly separate Purchase orders shall be placed to item wise lowest bidder.
 - iv. Validity for Offer: **90 days** from date of techno commercial bid opening
- v. **SAMPLE REQUIREMENT:** Vendor to provide the sample of each items along with the Techno commercial offer. The offer without sample shall be liable to be rejected. BHEL's Decision on the rejection of vendor shall be binding on the vendors.

Seal and Sign of Bidder



CORPORATE PURCHASING
SPECIFICATION

AA 51406

Rev. No. 02

PREFACE SHEET

VOLATILE CORROSION INHIBITOR (VCI)

TREATED PAPER

FOR INTERNAL USE ONLY

REMOVE THIS PREFACE BEFORE ISSUE TO SUPPLIERS

Comparable Standards:

1. INDIAN : IS : 6263-1972--(Reaffirmed 2004)
Class I

Suggested / Probable Suppliers and Grades :

1. M/S Himanshu Enterprises Bhopal

User Plant References:

1. HYDERABAD : ---
2. CFFP, HARDWAR : ---

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Revisions:

Cl: 8.5 of 8th MOM of WG -T&PM

APPROVED :

**INTERPLANT STANDARDISATION
COMMITTEE -WG - T&PM**

Rev. No. 02

Amd.No.

Reaffirme

Prepared

Issued

Dt. of 1st Issue

Dt:24.10.2007

Dt :

Year :

BHOPAL

Corp. R&D

NOV. 1986

**CORPORATE PURCHASING SPECIFICATION**

AA 51406

Rev. No. 02

PAGE 1 OF 2

VOLATILE CORROSION INHIBITOR (VCI) TREATED PAPER**1.0 GENERAL:**

This specification governs the quality of Volatile Corrosion Inhibitor (VCI) Treated Paper Which is coated or impregnated with corrosion inhibitor which emits its vapour to the metal surface when kept in enclosed space.

2.0 APPLICATION:

Used as packaging papers which when wrapped around ferrous metal components provide temporary protection to them against corrosion for short period.

3.0 COMPLIANCE WITH NATIONAL STANDARD:

The material shall comply with requirements of following National standard and also meet requirements of this specification

IS 6263-1972 Re affirmed 2004: Volatile Corrosion Inhibitor (VCI) treated Paper Heavy duty, Class I

4.0 FREEDOM FROM DEFECTS:

4.1 Sheets shall not stick together to such an extent that causes tearing or injury to the sheets when unrolled or separated.

4.2 Paper shall not show any appreciable loss of coating or impregnate in normal handling operations.

4.3 The paper shall not produce obnoxious vapors in such concentration so as to cause annoyance or health hazard to the persons handling them.

5.0 DIMENSIONS AND TOLERANCES

5.1 **WIDTH:** 1000mm unless otherwise specified. Tolerance ± 3 mm

5.2 **Length/Roll:** 100meter

6.0 TEST SAMPLES:

One square meter of treated paper shall be supplied for testing/approval purposes.

7.0 PROPERTIES:

When tested with test method shown against each the test sample show following Properties

7.1 **Burst Factor (IS:1060 Part 1):** 30 Minimum

7.2 **Tear Factor (IS:1060 Part 1):** 120 Minimum

Revisions :

Cl: 8.5 of 8th MOM of WG-T&PM

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AA 51406	CORPORATE PURCHASING SPECIFICATION	
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7.3 pH of Water Extract(IS1060 Part 1): 7±1

7.4 Vapour Inhibiting Ability (IS 6263)

To be passed the test if no corrosion observed on surface

7.5 Contact Corrosivity (IS 6263)

To be passed the test if contact area within scribe marks on the test panel is not corroded.

8.0 INSPECTION AT SUPPLIER'S WORKS:

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

The supplier 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 supplier 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 supplier shall make Necessary arrangements for carrying out the prescribed tests elsewhere. The supplier 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 work and the final acceptance of the material shall be based on these test results.

9.0 TEST CERTIFICATES:

Unless and otherwise stated, three copies of certificates shall be supplied along with each consignment giving the following information.

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

AA 51604 (Rev. No. 02) : Volatile Corrosion Inhibitor(VCI) Treated Paper

BHEL order no.

Manufacturer's / supplier's name.

Trade mark, if any.

Batch / lot no and consignment / identification No.

Test results of clauses 4,5 & 7

10.0 PACKING AND MARKING:

Each roll and package shall be packed suitably to avoid ingress of moisture during transit

and storage. Each package shall be marked with following.

AA 51604 : Volatile Corrosion Inhibitor (VCI) Treated Paper

BHEL Order No.

Manufacturer's / supplier's name.

Batch / lot No.

Trade mark, if any.

Sizes and quantity supplied

Caution: Use adequate ventilation. Wash hands with soap and water after use. Store paper in cool and dry place.

11.0 REFERRED STANDARDS (Latest Publications Including Amendments):

1. IS: 6263

2. IS: 1060

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CORPORATE PURCHASING SPECIFICATION

AA 51408

Rev. No. 02

PREFACE SHEET

POLYTHYLENE FILM – LOW DENSITY

**FOR INTERNAL USE ONLY
REMOVE THIS PREFACE BEFORE ISSUE TO SUPPLIERS**

Equivalent/Comparable Standards:

**1.Indian : IS:2508-1984(Reaffirmed 2003)
Gr:001**

Suggested/Probable suppliers and grades:

- 1. Jagdamba Tools Bhopal
- 2. ITW India, Hyderabad
- 3. Shri Balajee Entreprises, Bhopal
- 4. The Supreme Industries ltd

User Plant References:

- 1. HEEP, HARDWAR : 0507-601
- 2. BHOPAL : BP22980
- 3. HYDERABAD : HY 78476
- 4. TRICHY : IS 2508

Revisions :
CL 8.5 OF 8th MOM WG -T&PM

APPROVED :
INTERPLANT STANDARDISATION
COMMITTEE –WG - T&PM

Rev. No. 02	Amd.No.	Reaffirmed	Prepared BHOPAL	Issued Corp. R&D	Dt. of 1 st Issue DEC.1985
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CORPORATE PURCHASING SPECIFICATION

AA 51408
Rev. No. 02
PAGE 1 OF 4

POLYETHELENE FILM - LOW DENSITY

1.0 GENERAL:

This specification governs the quality requirement of flexible (non-rigid), low density polyethylene film suitable for use at temperatures -45°C to 90°C

2.0 APPLICATION:

Used for packing and allied purposes

Note: When the film is intended for use in fumigation purpose, film thickness above 175 microns shall be used

3.0 COMPLIANCE WITH NATIONAL STANDARDS:

The material shall comply with the requirements of following National standard and also meet the requirements of this specification

IS: 2508 - 1984 (Re affirmed 2003) Low density polyethylene film Gr.001

4.0 DIMENSIONS AND TOLERANCES:

4.1 Sizes: Thickness, width and length shall be stated on our order.

4.2 Preferred Thickness and tolerances:

100, 125, 150, 175, & 200 micron with a tolerance of ± 20%

4.3 Preferred width:

900, 1000, 1500, 2000, 2500 & 3000 mm

Width, mm		Tolerances ± mm
Above	Upto and incl	
900	1250	8
1250	2500	20
2500	3000	40

Revisions :
CL 8.5 OF 8th WG-T&PM

APPROVED :
INTERPLANT STANDARDISATION
COMMITTEE -WG - T&PM

Rev. No. 02	Amd.No.	Reaffirmed	Prepared BHOPAL	Issued Corp. R&D	Dt. of 1 st Issue DEC.1985
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AA 51408	CORPORATE PURCHASING SPECIFICATION	
Rev. No. 02		
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5.0 MANUFACTURE:

The low density polyethylene shall be manufactured from compound having polyethylene resin with additives to impart the additional qualities to the film such as slip, antioxidant, low water permeability, dust protection, transparency etc.

“BHEL” emblem of size A40 shall be embossed at an interval of 500mm along the length of film and 250 mm along it's width. The colour of emblem shall be Air Craft Blue (Shade No.108) as per IS:5.

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, foreign particles holes, and tears or blisters. The edge shall be free of nicks and cuts when seen with unaided eye.

7.0 COLOUR:

Unless otherwise specified, the film shall be supplied in natural colour (essentially colourless). Black colour or any other colour can also be ordered.

7.0 ODOUR:

The film shall be free from any objectionable odour.

8.0 TEST METHOD:

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

9.0 TEST SAMPLES:

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

10.0 PHYSICAL PROPERTIES

Density at 27°C

Natural and colour other than Black : 0.912 to 0.923 g/cc

Black colour : 0.922 to 0.937g/cc

**11.0 MECHANICAL PROPERTIES:****11.1 Tensile Strength at Break:**

<u>Direction</u>	<u>N/mm² Min.</u>
Length wise/Machine (MD)	11.77
Cross wise/Cross Machine (XD)	8.33

11.2 Elongation at Break (Min.)

Machine direction	200%
Cross-Machine Direction	400%

12.0 INSPECTION AT SUPPLIERS WORKS:

Whenever specified, tests and inspection are to be conducted in presence of BHEL's Representative.

BHEL representative shall have free access at all times while the work on contract is being Performed to all parts of manufacturer's works. The manufacturer shall offer BHEL's representative all reasonable facilities without charge to satisfy latter that the material is being furnished in accordance with this specification. The manufacturer shall prepare and provide necessary test specimen for testing to be carried out at his premises. If facility do not exist at his premises works, the manufacturer shall make necessary arrangements for carrying out the prescribed tests elsewhere. The manufacturer shall notify BHEL representative in advance about 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 material shall be based on these tests results.

13.0 TEST CERTIFICATES:

Unless otherwise specified, three copies of test certificates shall be supplied with each consignment, indicating the following information:

- AA 51408 (Rev 02): Polyethylene film low density
- BHEL Order No.
- Batch / Lot No.
- Results of dimensional inspection
- Test results of clause 10 and 11

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

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14.0 PACKING & MARKING :

To be supplied in rolls suitably packed to prevent damage during transit and storage. Each roll shall be tightly wound on centre bobbin and wrapped with thick packing paper properly tied with cotton lace.

Each roll shall be marked legibly with following information

Each drum shall bear the following information :

- * AA51408
- * BHEL order No.
- * Manufacturer's name and grade
- Batch / Lot No.
- Thickness
- Net Weight on Roll

15.0 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 undertake to replace the rejected film at his own cost and the rejected material shall be taken by supplier after fulfilling the commercial terms and conditions

16.0 REFERRED STANDARDS: (Latest Publications Including Amendments) :

- 1) IS: 5