

**THE FERTILISERS AND CHEMICALS TRAVANCORE LIMITED**

CORPORATE MATERIALS,  
PETROCHEMICAL DIVISION ADMN. BUILDING  
UDYOGAMANDAL, KOCHI, KERALA, INDIA-683 501  
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**Global Pre-qualification of vendors for supply of of Multilayer paper bags**

The Fertilisers and Chemicals Travancore Limited (FACT) invites applications from Manufacturers/Suppliers of Multilayer paper bags for packing Caprolactam flakes, for Pre-qualification as vendors for supplies to FACT. Interested vendors will be given opportunity for discussion at FACT, Kochi. Please visit our website **[www.fact.co.in](http://www.fact.co.in)** for details.

Dy. General Manager (Materials) RM1

CORPORATE MATERIALS  
PETROCHEMICAL DIVISION ADMINISTRATIVE BLDG.  
(RAW MATERIALS PURCHASE)  
UDYOGAMANDAL, KOCHI - 683 501  
PH: 91 484 2568623/ 2568233

**Pre-qualification of vendors for supply of Multilayer paper bags**

**ENQUIRY NOTICE**

The Fertilisers And Chemicals Travancore Limited (FACT) a Government of India enterprise, engaged in the production of Caprolactam, requires about 20,00,000 nos Multilayer paper bags per annum for packing Caprolactam flakes. Procurements will be done by online bidding system (e-tenders) through Central Public Procurement Portal of GOI (eprocure.gov.in).

Applications are invited for pre-qualification of vendors for supply of Multilayer paper bags as above. Pre-qualification Criteria is enclosed as Annexure A. Manufacturers/Suppliers who can supply Multilayer paper bags meeting the specifications as per Annexure V and who meet the pre-qualification criteria as per Annexure A, may submit application for prequalification in the prescribed format as per Annexure I (Questionnaire for Pre-qualification of vendors Pre-qualification of vendors for multilayer paper bags). Application shall contain all details and documents called for in Annexure I.

Applications for pre-qualification as above, duly completed in all respects and attaching all the required supporting documents, shall be submitted to Deputy General Manager (RM), Corporate Materials, FACT Ltd, FACT Petrochemical Division Administration Building, Udyogamandal - 683 501, Kochi, Kerala, India”.

Applications received by email shall be considered as special case. Applications shall be mailed to following email id: [kennedy@factltd.com/manju@factltd.com](mailto:kennedy@factltd.com/manju@factltd.com).

Note: Prospective vendors who apply or intend to apply for pre-qualification against this enquiry will be given opportunity for discussion on the subject to be held at FACT, Udyogamandal, Kochi, India.

Yours faithfully,

For THE FERTILISERS AND CHEMICALS TRAVANCORE LIMITED

Dy. General Manager (Materials) RM1

**APPLICATION FORM FOR PREQUALIFICATION OF VENDORS  
FOR MULTILAYER PAPER BAGS**

**I. INSTRUCTIONS:**

1. Please ensure that all the required data are furnished in the format given herein without any omission/ambiguity. Clarifications on data furnished may not be taken up with the applicants. Applications that are incomplete or ambiguous are liable to be rejected.
2. The details furnished shall be authentic. We reserve the right to verify correctness of the details given, by inspecting your premises and records. If any information furnished is found to be incorrect, the application is liable to be rejected, either during prequalification or after, without prior intimation.
3. We reserve the right to obtain and verify any additional information than those contained in the application form during or after pre-qualification.

**II. PRE-QUALIFICATION CRITERIA**

The criteria to be met by the bidders for the Pre-Qualification are as follows:

- a. Vendors must have experience in supply of at least 3.00 lakh multilayer paper bags in one year during any one of the last three years as on the tender date. Please enclose Purchase Order copies and the corresponding invoices/certificate from buyers on satisfactory performance as proof of the above. However, those vendors who have supplied such multilayer paper bags to FACT Ltd. earlier shall be exempted from meeting this criteria.
- b. Vendor should have all the required facilities for the manufacturing of minimum 3000 nos. multilayer paper bags per day. Kindly furnish a declaration confirming the same and the statement showing the details of available machinery and other facilities. FACT reserves the right to verify the details through inspection at the manufacturer's works.
- c. Vendor should have all the facilities and equipment for conducting tests of the multilayer paper bags as per the approved standards. Kindly furnish a declaration confirming the same and a statement showing the details of available facilities and equipment. FACT reserves the right to verify the details through inspection at the manufacturer's works.
- d. Vendor should enclose Solvency Certificate for at least ₹10 Lakhs from any Nationalised/Scheduled bank (Date of issue of the Certificate shall be after the enquiry date)

**BIDDERS NOT FULFILLING THE ABOVE CRITERIA WILL NOT BE CONSIDERED.**

Deputy General Manager (Materials) RM  
(BAG/CAP/PQV)

**Annexure - I**

**QUESTIONNAIRE FOR PRE-QUALIFICATION OF VENDORS FOR MULTILAYER PAPER BAGS**

	Description	To be filled in by vendor	
<b>1.0</b>	<b>Name of the vendor</b>		
1.1.0	Full address with PIN code of Registered office and Works.	<b>Registered Office</b>	<b>Works</b>
1.2.0	Telephone Numbers		
1.3.0	e-mail id		
1.4.0	Fax Numbers		
1.5.0	Contact Person		
1.6.0	Full address with PIN code, telephone no. and email id (To which correspondences are to be sent)		
<b>2.0.0 Company Particulars</b>			
<b>2.1.0</b>	<b>Constitution</b> Proprietary/ partnership/ private Ltd/ Public Ltd/ Public Sector (If Proprietary / Partnership, name's of proprietor/ Partners)	(Please furnish documentary proof)	
	Good and Service Tax Registration (GST)	(Yes/No)	Please Enclose copies.
	Permanent Account Number" (PAN) Card.	(Yes/No)	Please Enclose copies.
	Whether SSI Unit	(Yes/No)	Please Enclose copies of NSIC Registration.
	Whether ISO Certified/ approved by the Bureau of Indian standard or any III party inspection agency	(Yes/No)	Please Enclose
	Whether manufacturing is done directly or subcontracted	(Yes/No)	Give details
<b>2.2.0</b>	<b>Number of Employees</b>		
	Technical Executives (Graduate in Engineering/ textile / Polymer Technology).	Please specify separately	

	Non-Technical Executives					
	Skilled workers					
	Un-Skilled workers					
	Name, address, telephone & fax nos. of Chief executive					
2.3.0	Name and address of Your Bankers. (Please enclose copies of certificate of credit worthiness and credit limit certificates from your bankers)					
2.4.0	Please enclose audited Balance Sheet for the latest 3 financial years					
2.5.0	Details of Major orders for Multilayer paper bags executed since last three years as on the date of enquiry notice					
	Year	Description of the bags	Name of the buyer	Qty.	Date of Order	Value (Rs.)
2.5.1	A proof of execution of the above, please enclose purchase order copies and certificate from buyers on satisfactory performance.					
2.6.0	Sales turn over for the last three financial years					
	Period	QTY. in numbers			Value in Rs.	
		Total for all products	For Multilayer paper bags alone	Total for all products	For Multilayer paper bags alone	
<b>3.0.0</b>	Do you have any associate firm manufacturing various types of bags. If yes give the following details (use additional sheets if there are more than one)					
3.1.0	Name and address					
3.2.0	Constitution					
3.3.0	Names of common partners / Directors					
3.4.0	Whether SSI, if YES give details of NSIC registration.					
3.5.0	Turn over for the last three financial years					
3.5.1						
3.5.2						

3.5.3				
3.6.0	Product details			
3.7.0	Please give Chartered Accountant's certificate, certifying that the firms mentioned at above are your associate firms.			
<b>4.0.0</b>	<b>Source of Raw Materials</b>			
4.1.0	HDPE			
4.2.0	LDPE			
4.3.0	LLDPE			
4.4.0	KRAFT PAPER			
4.5.0	PRINTING INK			
4.6.0	STEREO FOR PRINTING			
4.7.0	STITCHING THREAD			
<b>5.0.0</b>	<b>Manufacturing facilities:</b>			
5.1.0	Whether you have the following facilities and if so, please furnish the following details.			
5.1.1	Machinery	No. of machines available in working condition	Capacity of the m/cs per day	Capacity of the m/c per day in terms of the number of multiplayer bags
5.1.2	Tubing machine		... Kg/day	
5.1.3	HDPE Extruders: (a)T-dye (b)Round dye		... Kg/day	
5.1.4	Winding Machine			
5.1.5	Circular looms for making HDPE woven bags		.....mts./day	
5.1.6	Extrusion coating (lamination)Plants		.....mts./day	
5.1.7	LDPE liner extruders		.....kgs./day	
5.1.8	Paper bag manufacturing unit		.....bags/day	
5.1.9	Automatic cutting		.....bags/day	

	machine			
5.1.10	Automatic sewing machines		.....bags/day	
5.1.11	Printing Machine		.....bags/day	
5.1.12	Diesel Generators/ Captive Power Plants		.....KVA	
5.1.13	Eqpt. connected to diesel Generators/ CPP			
5.1.14	Any other equipment available			
5.2.0	Your manufacturing capacity per day in terms of the number of Multilayer paper bags		.....Nos.	
<b>6.0.0</b>	<b>Quality Control Facilities</b>			
6.1.0	Quality control facilities and machinery available. Please list out the facilities and machinery available to ensure 100% Defect free bags as per our specification. Copies of documents used for internal Quality control for stage-wise quality control (Please use additional sheets if required)			
<b>7.0.0</b>	<b>General</b>			
7.1.0	What is the distance of your works Manufacturing Multilayer paper bags from Kochi and transit time required for a truckload to reach Kochi from your works?		...Kms/.....days.	
7.2.0	Have you ever been blacklisted by any Govt. Dept, Public Sector, Quasi Govt. Undertaking, etc... If so, please furnish the details.			
<b>8.0.0</b>	<b>CHECKLIST FOR ENCLOSURES (Please check and confirm attachment of the following documents):</b>			
8.1.0	Documents in proof of your Organisation's Constitution :		Yes/No	
8.2.0	Copies of GST Regn. Certificate :		Yes/No	
8.3.0	Copy of Income Tax Return for previous three years		Yes/No	

8.4.0	Proof of valid registration certificates under SSI / NSIC	Yes/No
8.5.0	Proof of ISO Certification / BIS approval and / or approval by reputed III Party Inspection Agency.	Yes/No
8.6.0	Certificate of Credit worthiness and credit limit certificate from your bankers.	Yes/No
8.7.0	Chartered Accountant's Certificate on associate firms	Yes/No
8.8.0	Latest 3 years balance sheets Profit & Loss Account for previous 3 years	Yes/No
8.9.0	Major Purchase Order copies and corresponding invoices or Certificates on satisfactory performance as proof for completion from buyers, pertaining to the last three years	Yes/No





DOCUMENT:  SPECIFICATION	REF: PRG/S/124A
	DATE: 16/10/2006
TITLE: MULTILAYER BAG WITHOUT MIDDLE KRAFT PAPER FOR PACKING CAPROLACTAM	ISSUE: 01
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**1.0 GENERAL DESCRIPTION OF THE PACKING**

The packing consists of:

- (a) Outer Bag : A brown kraft paper bag laminated with HDPE woven fabric.
- (b) Inner Bag : A transparent LDPE bag heat sealed at the bottom.  
Longitudinal seam/glued sealing not permitted.

The above two bags (a), & (b) are to be stitched together at the bottom at a distance of 15mm from the bottom edge (no minus tolerance permitted). The distance of the bottom stitching from the sealing of the inner LDPE bag shall be minimum 10mm (no minus tolerance permitted). After filling, the LDPE inner bag is to be heat sealed and folded inside the outer bag. The open mouth of (a) will be stitched with Crepe paper tape.

**2.0 Specification of the outer bag:**

Bag size inside dimension from the stitch:

Height : (860 + 10) mm  
(860 - 2) mm

Width : (530 +/- 2) mm

GSM of outer bag : 180 (minimum)

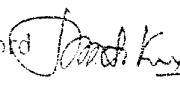
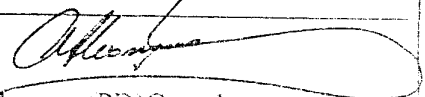
**3.0 Specification of Brown Kraft Paper**

Paper weight : 80 GSM +/- 5%

Bursting strength : 2 Kg/Cm<sup>2</sup> (minimum)

Tensile Strength : 5 Kg/15 mm strip (minimum)  
(machine direction)

Tensile strength : 3.5 Kg/15 mm strip (minimum)  
(cross direction)

ISSUED BY:  Chief Supdt. Production(PD)Coord 	APPROVED BY:   Deputy General Manager(PD)Coord
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Finish : Glazed side of the paper to be on the outside of the bag.

**4.0 Specification of HDPE Woven Fabric**

10 x 10 mesh (minimum 9 x 9 mesh) with 1000 deniers HDPE tape (5% minus tolerance on deniers permitted).

4.1 HDPE Granules : GF 7745 of M/s Polyolefine Industries or equivalent

4.2 Material for Bonding : Virgin LDPE  
Kraft paper to HDPE  
Woven fabric

Bonding film thickness : 37.5 microns (minimum)

4.3 Breaking Load of the laminated HDPE fabric (50 x 200 mm test samples)

Warpway : 850 newtons (minimum)

Weftway : 680 newtons (minimum)

4.4 Side joint of the Outer Bag

Hot sealing with an overlap of 40mm for the outer bag. Bonded portion of the side joint overlap shall not be less than 30 mm.

Side bond breaking load : 390 newtons (minimum).

**5.0 Inner LDPE Bag**

5.1 Inside dimensions (exclusive of seal)

Height : (990 + 10) mm  
(990 - 0 ) mm

Width : (530 + 20) mm  
(530 - 0 ) mm

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APPROVED BY:

Chief Supdt. Production(PD) Coord

Deputy General Manager(PD) Coord

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5.2 Thickness of the Film : 125 microns (Tolerance +10%, no minus tolerance permitted).

5.3 Width of bottom Sealing : (5 + 2) mm single band  
(5 - 0) mm single band

5.4 Strength of the bottom Sealing

A test piece for tensile strength testing as per IS - 2508 is to be cut with the bottom seal at the middle. The tensile strength of the LDPE film with the seal in the longitudinal direction should be 100 kg/cm<sup>2</sup> (minimum). The test is to be conducted on 2 test specimens per bag.

5.5 Distance of Bottom Sealing from edge : 25 mm

5.6 Air vent holes of 2 mm dia to be provided 70 mm away from the edge on the longer side of the bag, five holes 140 mm apart. The first hole is to be 140 mm above the bottom sealing. In addition to the above, 3 air holes are to be provided at the top end of the LDPE bag, distributed at 130 mm apart on an imaginary line 130 mm below the top edge, parallel to the top edge. Tolerance 20 mm in any direction. Holes must be pierced and not punched.

5.7 Colour of the LDPE Bag

Virgin LDPE without any colour is to be used to produce a transparent bag with normal clarity.

Haze : 10 to 15%

5.8 Specifications of the LDPE for the Inner Bag


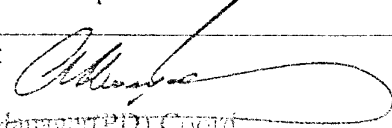
Virgin material without any antioxidant to be used. In case traces of antioxidant (Di Butyl Paracresol) is present its weight shall not exceed 0.2%.

Density (film) : 925 kg/m<sup>3</sup> max.

Melt Flow Index (MFI) : 0.2 to 0.5 gm/600 Secs.

Swelling ratio : 1.3 to 1.4

LDPE grade : IPCL - 22 FA 002 or equivalent

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Chief Supdt. Production(PD) Coord 	Deputy General Manager(PD) Coord 

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Up to 20% LLDPE of the following specifications can be mixed with LDPE in order to meet the strength requirements.

LLDPE Specification :

Density : 920 kg/m<sup>3</sup> (max)

MFI : 1 gm/600 sec.

MFI of the composite film should be less than 1 gm/600 sec.

#### 5.9 Strength of LDPE Film

5.9.1 Tensile Strength : 160 kg/cm<sup>2</sup> (min)

Longitudinal direction

Transverse direction : 150 kg/cm<sup>2</sup> (min)

#### 5.9.2 Elongation at break

Longitudinal direction : 350% (min)

Transverse direction : 400% (min)

Impact Strength (Dart Test) : Not less than 155 GF at 1524 mm

#### 6.0 Bag Formation

All plies including inner LDPE shall be stitched together at the bottom at a distance of 15mm from the edge, after covering with a crepe paper of 100+ 5% gsm and width of 55mm (No minus tolerance permitted). The two layers of the LDPE inner bag shall not stick together and shall be easily openable.

Stitching : With Rayon type cord in single row chain stitch  
(12 +/- 2 stitches/decimeter).

#### 7.0 Overall Strength

Bottom stitch breaking load : 310 newtons min. (IS 9030-1979)

Drop Test : The filled bag should withstand 4 drop tests (Each bag shall be dropped four times from a height of 2 metres, i.e. on the front side).

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APPROVED BY:

Chief Supdt. Production (PD) Coord

Deputy General Manager (PD) Coord



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on the rear side, on the end with vendors factory sealing and on one of the longer edges).

Capacity : 25 Kg (bulk density – 700 Kg/m<sup>3</sup>).

**8.0 Branding**

Use polyglene ink or equivalent. Branding is to be as per our sketch. Identification mark of the supplier and the lot number must also be indicated on each bag. Any change in branding details will be intimated with a notice 15 days in advance.

**9.0 Instruction for Packing**

Before packing, the protruding portion of the inner LDPE bag should be folded outside the outer bag (cuffed) to 145 mm to facilitate clamping on the weighing machine. There shall not be any tear or damage on the cuffed portion.

9.1 The bags should be made into trusses of 200 bags each. Each truss should be wrapped with water proof HDPE cloth with an outer covering of Hessian. Each truss should be stitched properly and shall have a rectangular shape for easy stacking. Gross and net weight of the truss with lot No, date, month of packing and identification mark of the manufacturer shall be marked on the trusses.

9.2 Deviation in weight: Weight of each individual bag shall not vary beyond +/-6% from the normal weight of 340 grams. Weight variation for a truss of 200 bags shall be within +/- 3%.

**10.0 Test Methods**

Test methods shall generally conform to those specified in the following Indian Standards:

- (a) Kraft Paper : As per IS : 1060  
: Part – 1 (1966)  
: Part – 2 (1960)  
: Part – 3 (1969)
- (b) HDPE fabric laminated with paper : As per IS – 1969 (1985)
- (c) LDPE for inner bag : As per IS – 2508 (1984)

ISSUED BY:

APPROVED BY:

Chief Supt Production(PD) Coord

Deputy General Manager(PD) Coord



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- (d) Side bond & bottom seam strength : As per IS – 9030 (1979)
- (e) Sampling size : As per IS – 11651 (1986)
- (f) Melt Flow Index : As per IS – 2530 (1963)

These Indian Standards apply to testing methods only. Individual properties shall be as given in the specification sheet.

<b>ISSUED BY:</b> Chief Supdt. Production(PD) Coord <i>[Signature]</i>	<b>APPROVED BY:</b> <i>[Signature]</i> Deputy General Manager(PD) Coord
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