

Memo. No.: **SD/1-6/PP Bags/2021-22/T-1**

Dated at Ldh , the 29 .12 . 2021

Notice Inviting e-Tender

Online Tenders are invited on behalf of President of India on Central Public Procurement Portal at web link <http://eprocure.gov.in/eprocure/app> for **conclusion of Rate Contract for supply of Polypropylene bags of three different sizes as per standards mentioned in BIS standards IS 17399:2020** for a period of one year. The method of submission of e-tender and Security Deposit and General Terms and Conditions applicable to the contract has been mentioned in **Annexure-I**. The work is to be performed strictly as per parameters/technical specifications given in **Part I of Annexure II**. The terms and conditions specific to the contract have been mentioned in **Part-II, Annexure-II**. Pre Contract Integrity Pact in **Part III, Annexure II** Instructions to Tenderers for Responding on e-Procurement Module in **Part IV, Annexure II** & the Documents to be Uploaded in CPP Portal have been mentioned in **Part V, Annexure II**, Bid Security Declaration in **Part VI, Annexure II** & Self certification for MII in **Part VII, Annexure II**. The Performa for submission of tender has been given in **Annexure-III** (for Technical Bid) & **Annexure-IV** (for Commercial Bid) and Copy of Bureau of Indian Standards, IS 17399:2020 in **Annexure-V** for information.

2. The schedule of e Tender & Critical Dates will be as under.

e-Tender No. **SD/1-6/PP Bags/2021-22/T-1** dated 29.12 .2021.

Publish date	:	29.12.2021	at 1830 Hrs
Bid Opening Date	:	17.01.2022	at 0900 Hrs
Document Download / Sale Start Date	:	30.12.2021	at 0900 Hrs
Document Download / Sale End Date	:	15.01.2022	at 1700 Hrs
Bid Submission Start Date	:	08.01.2022	at 1000 Hrs
Bid Submission End date	:	15.01.2022	at 1800 Hrs

Venue: Office of the Superintendent, Postal Stores Depot, B.R.S. Nagar (Behind village-Sunet), Ludhiana-141012.

Estimated Amount of Drawal: Rupees One Crore.

3. Cost of Tender Document: Not applicable {as per Rule 161(iv) of GFR 2017.}
- 3.1 Amount of EMD: Not Applicable to MSME and required a declaration from other than MSME tenderer as per Rule 170 (iii) of GFR 2017 as per Part VI Annexure II.
4. The Department of Posts reserves the right to cancel e-tender at any time/stage or relax/amend/withdraw any of the terms and conditions contained in e-tender Documents without assigning any reason thereof. Any enquiry, after uploading of the Bid shall not be entertained.
5. Annexure-I, II, III & V to this Notice Inviting e-tender are enclosed in PDF format & Annexure-IV in BOQ Format.

Superintendent
Postal Stores Depot
Ludhiana-141012

ANNEXURE-I

GENERAL TERMS AND CONDITIONS

Sub:- Supply of Polypropylene Bags of three different sizes as per BIS standards IS 17399:2020.

1. **Parties:** The parties to the contract are the contractor (the tenderer to whom the work has been awarded) and the Government of India through the Department of Posts for and on behalf of the President of India.
2. **Address:** For all purposes of the contract including arbitration there under, the address of the contractor mentioned in clause 1 shall be final unless the contractor notifies change of address by e-mail at psdludhiana.pb@indiapost.gov.in or sent it by Registered/Speed Post to the Department of Posts, Superintendent Postal Stores Depot, BRS Nagar, sunet, Ludhiana-141012. The contractor shall be solely responsible for the consequences of any omission or error to notify change of address in the aforesaid manner.
3. **Preparation and Submission of Bids:**
 - 3.1 **Preparation of Bids:**
 - 3.1.1 Tenderer should take into account any corrigendum published on the e-Tender documents before uploading their bids.
 - 3.1.2 Please go through the tender advertisement and the tender document carefully to understand the documents required to be uploaded as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents – including the names and contents of each of the document that need to be uploaded. Any deviations from these may lead to rejection of bid.
 - 3.1.3 Tenderer should get ready the bid documents in advance to be uploaded in PDF/BOQ as indicated in the e-tender document. Bid documents should be scanned with 100 DPI with black and white option.
 - 3.1.4 To avoid the time and effort required in uploading the same set of standard documents which are to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. Registration certificates, PAN card copy, Annual Reports, Auditors certificate etc.) has been provided to the bidders **on CPP Portal**. Bidders can use “My Space” area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.
4. **Submission of Bids:**
 - 4.1 The tenderer should log into the site well in advance for bid submission so that he/she upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
 - 4.2 The tenderer has to **digitally sign** and upload the required bid owning responsibility for their correctness/authenticating documents one by one as indicated in the e-tender document.
 - 4.3 Tenderer has to select the payment option as ‘offline’ to pay the Tender Fee & Earnest Money deposit if applicable and must enter details of the instruments (UCR deposits).
 - 4.4 The tenderer shall authenticate the bid with his **Digital Signature Certificate** (DSC) for submitting the bid electronically on e-procurement platform and the bids not **validated**/authenticated by DSC will not be accepted.
 - 4.5 e-Tender document to be filled by all the Tenderers should be in standard PDF format. Tenderers are requested to note that they should necessarily submit their financial bids in the BOQ format and **no other format is acceptable**.

- 4.6 Tenderers are required to download the PDF file, open it and fill in name of the concern and other information as required in Technical bid and submit their respective documents alongwith bid. Once the details have been completed the tenderer should scan & submit it online. **If the PDF file is found to be modified by the tenderer, the bid will be rejected.**
- 4.7 The server time (which is displayed on the tenderer's dash board) will be considered as the standard time for referencing the dead line for submission of the bids by the Tenderers, opening of the bids etc. The tenderer should follow this time during the bid submission.
- 4.8 All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bid is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done.
- 4.9 Upon the successful and timely submission of bids, CPP Portal will generate a successful bid submission message and a bid summary will be displayed with the bid number and the date and time of the submission of the bid with all other relevant details.
- 4.10 The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meeting (Technical or Commercial).
- 5. Signing of e-Tender:** Signature should be done electronically using Digital Signature Certificate as per eProcurement System. Individual signing the e-tender or other documents connected with contract must specify in column 3.2 of Annexure-III whether he signs as:
- 5.1 a 'Sole Proprietor' of the concern or constituted attorney of such Sole Proprietor;
- 5.2 a 'Partner' of the firm, if it be a partnership firm, in which case he must have authority to execute contracts on behalf of the firm and to refer to arbitration disputes concerning the business of the partnership either by virtue of partnership agreement or by a power of attorney duly executed by the partners of the firm.
- 5.3 Director or a Principal Officer duly authorized by the Board or Directors of the Company, if it is a company.

NB

- (1) In case of partnership firms, a copy of the Partnership Agreement or General Power of Attorney duly attested by a Notary Public, should be furnished on stamped paper duly sworn or affirmed by all the partners admitting execution of the Partnership Agreement or the General Power of Attorney. The scanned copy of the certificate of registration of firm should also be uploaded in CPP Portal along with the e-tender.
- (2) A person signing the e-tender digitally or any documents forming part of e-tender on behalf of another person should have an authority to bind such other person and if, on enquiry it appears that the persons so signing had no authority to do so, the Chief Postmaster General, Punjab Circle, Chandigarh may, without prejudice, cancel the contract and hold the signatory liable for all costs, consequences and damages under the civil and criminal remedies available.
- (3) **The tenderer must sign e-Tender electronically** as the acceptance of the offer made by the tenderer will be deemed as contract and no separate formal contract will be drawn. Failure to sign the e-Tender with valid DSC will result in rejection of the tender.

6. Technical Bid:

- 6.1 The documents relating to Technical Bid (detailed in Annexure-II Part-V) must be uploaded electronically along with signed copy of Annexure-III.
- 6.2 The Tenderer shall furnish a declaration “on-line” along with Annexure-III stating that the scanned copies uploaded by him are genuine (at bottom of Annexure-III). Any incorrectness deviation noticed will be viewed seriously. It may result in cancellation of Bid/Work Order in addition to blacklisting of the firm.
- 6.3 The Tenderer has to keep track of any changes by viewing addendum/corrigendum issued by the Tender Inviting Authority on time to time basis on e-procurement platform. The Department will not be responsible for any claims/problem arising out of this.
- 6.4 The Technical bid should be submitted in form given in Annexure-III along with full detail of technical facilities for executing the work i.e. Plant & Machinery, Equipments, Associated Security Features etc. (on a separate page) and any other information sought for in the last section of the Annexure-II.
- 7. Commercial Bid:**
- 7.1 The Commercial Bid must be submitted in prescribed Annexure-IV (BOQ format) only.
- 7.2 The name of the tendering concern is to be filled (named as Bidder name) for it. Tendered rates are to be filled in figures and in words in particular column. The tenderer must be very careful while entering rate/price in the bid.
- 7.3 Item wise consolidated price (inclusive of cost of material supplied, all kinds of incidental charges, taxes, packing, freight, loading and unloading etc.) is to be quoted in Annexure-IV. The price quoted shall be firm and final.
- 7.4 ‘Terms of Payment’ fixed in e-tender Document (clause 23 of Annexure-I) shall be final.
- 7.5 At the time of payment, TDS on GST/income tax if any will be deducted at source as per Government Rules and Guidelines prevailing at the time of payment.
- 7.6 The conditional bids will not be entertained.
- 8. Validity of the Bids:** The bids shall be valid for a period of 180 days from the date of opening of e-tender.
- 9. Opening of the e-tender:**
- 9.1 On the date and time indicated in the ‘Schedule of e-tender’ Technical Bids will be opened online and read out in the presence of tenderers’ representatives.
- 9.2. Only one authorized person from one concern having print out of Bid Summary (acknowledgement of submission of bid in CPP Portal) will be allowed to attend Opening of Technical and Commercial Bid (if eligible).
- 10. Criterion for Evaluation of Tenders:** The Commercial Bids of the tenderers short-listed after evaluation of technical bids will be opened on a specified date and time to be intimated to the qualified tenderers. A duly constituted Tender Evaluation Committees (TEC) will evaluate the Technical Bid and Commercial Bid. It must be kept in view that no decision will be given by the Tender Evaluation Committee or any inferences drawn during the meeting of this committee by the Tenderers or their representatives will be their own view and the Department will not be responsible and abide by the same.
- 10.1 The parameters for ‘**Evaluation of Technical Bid**’ will be as under:
- 10.1.1 The evaluation of the tenders will be done on the basis of technical information furnished in Annexure-III.
- 10.1.2 Submission of supporting documents to verify the information filled in Technical Bid Performa (Annexure-III) and these are also detailed in Annexure-II Part-V.
- 10.2 The parameters for ‘**Evaluation of Commercial Bid**’ will be as under:

- 10.2.1 Evaluation/Ranking of commercial bids will be based on item wise Lowest rate offered by the tenderer.
- 10.2.2 The tender will be awarded to tenderer who has quoted lowest competitive rate (L-1) item wise.
11. **Right of Acceptance:**
- 11.1 The Department of Posts reserves all rights to reject any tender including of those Tenderers who fail to comply with the instructions without assigning any reason whatsoever. The decision of Chief Postmaster General Punjab Circle Chandigarh in this regard is final and binding.
- 11.2 Any failure on the part of the contractor to observe the prescribed procedure and any attempt to canvass for the work will prejudice the contractor's quotation.
12. **Communication of Acceptance:** Successful Tenderer will be informed of the acceptance of his e-tender through tender award on CPP Portal. Necessary instructions regarding the amount and time provided for submission of security deposit and advance samples (if applicable) will be communicated in it.
13. **Time Schedule for Completing of Work:** The work must be completed within the work completion period fixed in Annexure-II Part-II. The contractor cannot supply the material after lapse of delivery period unless the Delivery Period is re-fixed or extended with or without Imposition of Penalty (Liquidated Damages) by Superintendent PSD Ludhiana while following the guidelines contained in para 8.15, 8.16 & 8.17 of the 'MANUAL ON POLICIES AND PROCEDURES FOR PURCHASE OF GOODS' available on the web link http://finmin.nic.in/the_ministry/dept_expenditure/acts_codes/MPProc4ProGod.pdf
14. **Performance Security Deposit:** The successful tenderer will have to deposit in cash in any post office under UCR a sum equal to 5% of the total value of the contract in favour of Department of Post towards Security Deposit within 30 days from the date of acceptance of the tender and produce the receipt in original to the Department of Posts. Alternatively, the Performance security deposit can be deposited only in the form of a Fixed Deposit in Nationalized Bank or Post Office duly pledged to the Supdt. PSD Ludhiana on behalf of President of India for the amount for the period extending at least six months beyond the date of completion of Contract. The Security Deposit will not be adjusted against any payment due to the firm from the Department or the Central Government.
- 14.1 The security deposit can be forfeited by the order of the Department of Posts in event of any breach or negligence or non-observance of any condition of contract or for unsatisfactory performance or for non-acceptance of the work order. On expiry of the contract, such portion of the said security deposit as may be considered by the Department of Posts sufficient to cover any incorrect or excess payments made on the bills to the firm, shall be retained until the final audit report on the account of firm's bill has been received and examined.
- 14.2 **No Exemption of any kind is allowed whether firm registered with NSIC or MSME.**
15. **Penalty:** In the event of contractor failing to:
- 15.1 Observe or perform any of the conditions of the work as set out herein; or
- 15.2 Execute the work in good and workmen-like manner and to the satisfaction of and by the time fixed by the Department of Posts;
- 15.2.1 It shall be lawful for the Department of Posts in its discretion in the former event to remove or withhold any part of the work until such times as he may be satisfied that contractor is able to do and will duly observe the said conditions and in the later event to reject or remove as the case may require any work executed otherwise than in a good and workman-like manner to the satisfaction of and by the time fixed by the Department of Posts and in both or either of events aforesaid to make such

arrangements as he may think fit for the reproduction of the work so removed or work in lieu of that so rejected or removed as aforesaid on account and at the risk of the contractor.

15.2.2 Provided further that if in either event any excess cost be incurred by reason of the difference between the prices paid and the accepted rates Department of Posts may charge the amount of such excess cost from the contractor and the same may at any time thereafter be deducted from any amount that may become due to the contractor under this or any other contract or from the security deposit or may be demanded of him to be paid within seven days to the credit of the Department of Posts.

15.2.3 In the event of detection of any error or defect due to the fault of contractor at any time after the delivery of the goods ordered, the contractor shall be bound, if called upon to do so, to rectify such error or defect at his own cost to the satisfaction of and within the time fixed by the Department of Posts. In the event of the delivery of any defective work, which owing to urgency or for any other reason cannot be wholly rejected, the Department of Posts shall have the power to deduct from any payment due to the contractor such sum as he may deem expedient.

15.2.4 In the event of the work being wholly rejected, the Department of Posts may at its discretion either:

15.2.4.1 Permit the contractor to re-do the same with in such time as he may specify at contractor's own cost which shall include the costs of all sorts i.e. materials, labour, overheads, transportations etc. **or**

15.2.4.2 Arrange to get the additional work done elsewhere and by any other person or from any other source than the contractor in which case the amount of extra cost, if any, shall be recovered from the contractor in the manner provided in sub clause 15.2.2 of this clause.

15.2.5 The power of the Department of Posts under this condition shall in no way affect or prejudice the powers in certain events to terminate the contract vested in him as herein provided or forfeiture of security deposit mentioned under clause 14 above.

15.2.6 **Since the work being awarded to the contractor is of important nature, the time schedule fixed in the concerned order for supply of bags must be adhered to** failing which penalty @ 0.5 % per week or part thereof up to maximum of 10% will be imposed which will be recovered in the manner stated in sub clause 15.2.2 only if the 'Extension in Delivery Period' has been allowed by the Department of Posts with or without imposition of Penalty. Hence, the contractor will have no right to supply the material after lapse of delivery period and the time schedule fixed for completion of work will be treated as essence of contract (see clause 13 above).

15.3 In case of breach of any terms & condition of NIT, the firm will be blacklisted.

16 **Natural Calamity, Strike etc:** In case of strike, combination of workman or natural calamity of any kind, fire accidents or circumstances beyond the control of the firm causing stoppage of his work, whereby the delivery or completion of work may be suspended resulting in undue delay without penalty. Department of Posts shall have the power during such stoppage to get the work done elsewhere without charging the contractor. No obligation will rest on Department of Posts to pay for any portion of the work undertaken before such stoppage. The contractor shall provide every facility for removal and use of materials as may be necessary for timely completion of the work.

17. **Insolvency etc:** In the event of the firm being adjudged insolvent or having a receiver appointed for it by a court or any other order under the Insolvency Act made against them or in the case of a company the passing any resolution or making of any order for winding up, whether voluntary or otherwise, or in the event of the firm's failing to comply with any of the conditions herein specified the Chief Post Master General Punjab Circle Chandigarh shall have the power to terminate the contract without previous notice.
18. **Breach of Terms and Conditions:** In case of breach of any of terms and conditions mentioned above, the Chief Post Master General Punjab Circle Chandigarh will have right to cancel the work order without assigning any reason thereof and nothing will be payable by the Department of Posts in that event and the security deposit shall also stand forfeited.
19. **Subletting of Work:** The firm shall not assign or sublet the work or any part of it to any other person or party without having first obtained the permission in writing of the Department of Posts who will be at liberty to refuse if he thinks fit.
20. **Right to Call upon Information Regarding Status of Work:** The Department of Posts will have the right to call upon information regarding status of work at any point of time.
21. **Precautionary Measures:**
- 21.1 While observing economy in costs in his own interest the contractor must be careful that quality and cleanliness of the work is maintained as well as time schedule prescribed etc. should not be disturbed.
- 21.2 The contractor must take every care to see that no consignment or any portion thereof falls into unauthorized hands. Care should be taken to execute the work under proper security conditions and no consignment or part thereof spare item of material should be retained/sold or is stolen or leakage allowed to continue by the contractor or any of his staff member or anybody else whether at the behest of contractor or his staff or otherwise to any person(s) other than the person(s) authorized by the Department of Posts.
- 21.3 Tenderer or any of their servants or agents participating in the tender process shall represent, warrant and covenant that they have given no commitments, payment, gifts, kickbacks, lavish or expensive entertainment or other things of value to any official in connection with this contract and shall acknowledge that the giving of any such payments, gifts, entertainment or other things of value is strictly in violation of accepted norms of ethics and may result in disqualification of their bids and/or cancellation of the contract.
- 21.4 No unsolicited correspondence/queries will be entertained while the award of tender is under review / consideration. No individual queries will be responded.
- 21.5 Every tenderer shall unconditionally accept the Terms and Conditions contained in this tender. Signing digitally the bid documents shall be conclusive evidence of acceptance of the terms & conditions stipulated therein. The bid of any tenderer who does not accept any of the terms & conditions shall not be considered.
22. **SAMPLE:**
- 22.1 **There is no need to submit samples in advance by every tenderer**, however it would be required from the **successful tenderer to submit advance sample & start bulk production only after receipt of approval of the advance sample**. PSD Ludhiana will randomly get the bags certified through the authorized agency/NABL accredited

Lab./Committee appointed by the PSD Ludhiana to ensure the 'genuineness of the quality and specification of the product as per BIS Standards IS :17399:2020, at supplier's cost.

22.2 The contractor will be given a period of 15 (Fifteen) days for submission of sample which will be reckoned from the date of receipt of approval of rates. In the event of failure to do so, the contract will be cancelled and security deposit will be forfeited.

22.3 The contractor must confirm that the store/material offered will conform to the specification in all respects. The mere fact that the competent authority has approved the samples (just by seeing it in a non expertise way) will not absolve the contractor from supplying the store/material of the different specifications.

23. The tender is not transferable. Only one tender shall be submitted by one tenderer.

24. **Terms of Payment:**

24.1 No payment shall be made in advance nor shall the any loan from any bank or financial institution be recommended on the basis of the order of award of work

24.2 The **contractor shall submit the bill after completion of the supply order** for sanction of the amount of bill for payment.

24.3. All payments shall be made by cheque only.

24.4. The Department of Posts shall be at liberty to withhold any of the payments in full or in part subject to recovery of penalties mentioned in preceding Para.

24.5. The term 'payment' mentioned in this Para includes all types of payment due to the contractor arising on account of this contract excluding Security Deposit governed by the separate clauses of the contract.

25. **PURCHASE PREFERENCE TO MICRO AND SMALL ENTERPRISES (MSEs):**

25.1 The participating (MSEs) in e-tender quoting price within the band of L-1+15% will also be allowed to supply a portion of the requirement by bringing down their price to the L-1 price, in a situation where L-1 price is from someone other than an MSE. Such MSEs may be allowed to supply up to 25% of the total tendered value. In case of more than one such eligible MSEs, the supply will be shared equally.

25.2 Out of 25% target of annual procurement from MSEs, a sub-target of 5% (i.e. 20% out of 25%) will be earmarked for procurement from MSEs owned by SC/ST entrepreneurs. However, in the event of failure of such MSEs to participate in the e-tender process or meet the e-tender requirements and the L-1 price, the 4% sub-target for procurement earmarked for MSEs owned by SC/ST entrepreneurs will be met from other MSEs.

25.3 The Micro or Small Enterprises will be considered for mandatory purchase preference (as fixed above under clause 25.1) only if the tenderer has uploaded in CPP Portal the copy of certificate of registration. The certificate issued by the authorities notified by Ministry of MSME with current validity on the date of opening of e-tender will only be considered for the purchase preference.

25.4 In case if a tenderer (i.e. MSE) is owned by SC/ST entrepreneur then the owner of MSE should enclose his proof of caste from competent authority for claiming purchase preference applicable to SC/ST entrepreneur (as fixed above under clause 25.2).

26 **PURCHASE PREFERENCE TO MAKE IN INDIA (MII):**

Government Public Procurement Order No. P-45021/2/2017-(BE-II) dtd. 15.06.2017 & 16.09.2020, or as amended from time to time and as applicable on the date of submission of tender, Only Class- I Local

Supplier (Class- I local supplier means a supplier whose goods or works offered for procurement, meets minimum local contents as prescribed for class I local supplier under Govt. of India Order) is eligible for the Tender. As Per Clause 9(a) of Govt. of India order No. . P-45021/2/2017-(BE-II) dtd. 16.09.2020, a self certification for verification of Local Contents under preference to Make in India Policy is to be given by the vender and a self certification Performa is given in Part VII, Annexure II.

27. **Arbitration:** If a dispute arises out of or in connection with this contract, or in respect of any defined legal relationship associated therewith or derived there from, the parties agreed to submit that dispute to arbitration under the ICADR Arbitration rules, 1996. The authority to appoint the arbitrator(s) shall be the International Centre for Alternative Dispute Resolution. The International Centre for Alternative Dispute Resolution will provide administrative services in accordance with the ICADR Arbitration Rules, 1996. The number of arbitrator shall be ONE. The language of the arbitration proceedings shall be in English. The place of arbitration proceedings shall be New Delhi.

ANNEXURE-II

Part-I

Supply of Polypropylene Bags of three different sizes as per BIS standards IS 17399:2020.

**PARAMETERS AND TECHNICAL SPECIFICATION FOR EXECUTING
THE WORK SHOULD STRICTLY AS PER BIS STANDARDS
IS 17399:2020 (As per Annexure V to this tender)**

Brief Specifications are as under:-

Bag Type	Dimensions of bags	Mass/weight of Laminated bag	Colour	Tentative Nos of Bags required
Type I	(H) 750mm X (L) 350mm X (W) 350mm (Small) with minimum 35 Kg loading Capacity	135 gms	Khaki	150000
Type II	(H)1050mm X (L)350mm X (W)350mm (Middle) with minimum 35 Kg loading Capacity	180 gms	Khaki	70000
Type II	(H)1050mm X (L)350mm X (W)350mm (Middle) with minimum 35 Kg loading Capacity	180 gms	Yellow	50000
Type III	(H)1220mm X(L)455mm X (W)455mm (Large) with minimum 35 Kg loading capacity	266 gms	Yellow	30000

- 2) Raw material: Raw material shall conform to the requirements specified in BIS Standard IS 17399:2020, Denier Count: The PP shall have Denier Count of about 800.
- 3) One grommet shall be fitted at the centre of the top fold of each side for the purpose of hanging bags on bag stand. Accordingly the number of Grommet shall be 4. The Grommet shall preferably be made of plastic and shall have inner diameter hole of 12.5 mm.
- 4) Bags should have rectangular bottom.
- 5) Load bearing double stitched hemlock stitch should be used on the inner side to be stitched at distance of 25 mm from the end. The stitching shall be uniform and without any missing stitch, loose thread or a knot.
- 6) India Post Corporate Logo of size 200mmx400mm should be stenciled in the middle on both surface sides of the Bag.

- 7) Color of the Bag Size 1- Khaki, Size 2 – Khaki & yellow (as per requirement) and Size 3 – Yellow with name of circle **Punjab Circle** on it. The name of the circle should be stenciled on both sides below the India Post Logo with Red color with 400 mm size.
- 8) Packaging : The bags shall be packed to form a bale using a wrapping layer of PP/HDPE woven fabric and suitably secured. The bale cover shall be marked or labeled with following information:
- a) Name of manufacturer:
 - b) Month and year of Manufacture:
 - c) Type of Bags:
 - d) Number of bags in a bale:
 - e) Gross weight:
 - f) Net Weight:
- 9) Each product shall be marked with Swachh Bharat logo, clearly visible at bottom of the bag in black colour and marked with recycled logo in accordance with IS 14534.
- 10) Load bearing capacity for all types of bags shall be minimum 35 kg.
- 11) Sampling and criteria for conformity shall be according to Clause 9 of Annexure V .
- 12) Accounting Unit: The accounting unit shall be one (1). The tenderer should quote rates per bag in BOQ format in Annexure-IV- inclusive of cost of materials, all kind of incidental charges (printing, stitching, packing, freight etc.) and all taxes etc. The orders shall be placed on pro rata basis.
- 13) **Cost of testing of the sample bags will be borne by the vendor.**

ANNEXURE-II**PART-II**

Subject:- Supply of Polypropylene Bags of three different sizes as per BIS standards IS 17399:2020.

Terms and Conditions Specific to the Contract.

1. **VALIDITY PERIOD OF THE CONTRACT:** The contract shall be in force for a period of one year from the date of approval of rates conveyed by the Department of Posts which can be extended for a further period of 6 months on the mutual consent of Tenderer and the Department of Posts. The successful tenderer shall supply the material /execute the work at the rates approved by Department of Posts and communicated to him on accepting his e-tender till validity of contract. The transportation cost, unloading charges at PSD and any Hidden charges/costs shall be borne by the supplier.
2. **PLACE FOR DELIVERY:** The stores are to be supplied at PSD, backside village-Sunet, BRS Nagar Ludhiana at the arrangement of contractor free of costs & placed in racks of stores.
3. **VARIATION CLAUSE:** The annual requirements shown above are subject to **varied to the extent of 25%**, for which order can be placed at any time during the validity period of the contract in part or full as per demand of the depot at that time.
4. **QUANTUM OF EACH ORDER:** At a time the order will be placed for supply of quarterly requirement or actual requirement of the item.
5. **WORK COMPLETION PERIOD:** The norms for fixing of delivery period will be as under.

Sr	Bag Size	Norm for Fixing of Delivery Period
1	(H) 750mm X (L) 350mm X (W) 350mm (Small)	30 days for supply of Bags
2.	(H)1050mm X (L)350mm X (W)350mm (Middle)	30 days for supply of Bags
3.	(H)1220mm X(L)455mm X (W)455mm (Large)	30 days for supply of Bags

6. **MINIMUM DRAWAL:** No minimum drawal is guaranteed in the rate contract (There is no assurance of a minimum quantity of procurement during the validity period of the contract).
7. **GUARANTEE/WARRANTY CLAUSE:** The period of Guarantee/Warranty shall be 12 months from the date of receipts of stores by consignee or 15 months from the date of dispatch whichever is earlier.
8. **RIGHT TO WITHDRAW THE RATE CONTRACT:** The Department of Posts reserves the right to withdraw the rate contract without assigning any reason whatsoever by serving suitable notice. The prescribed notice period shall be 30 days.
9. **RIGHT TO CONCLUDE RATE CONTRACTS:** The Department of Posts reserves the right to conclude more than one rate contracts for the same time.
10. **FALL CLAUSE:** If the rate contract holder reduces its price or sells or even offers to sell the rate contracted goods following conditions of sale similar to those of the rate contract, at a price lower than the rate contract price, to any person or organization during the currency of the rate contract, the rate contract price will be automatically

reduced with effect from that date for all the subsequent supplies under the rate contract and the rate contract would be amended accordingly.

- 10.1 If there is any reduction in the cost of materials/services due to the policy of Government resulting in reduction of rates, the tenderer shall pass on the benefit forthwith to the Department of Posts. Any intermediately claim for increase of rate will not be entertained.

11. PERMISSIBLE TOLERANCE LIMIT: It will be +15mm, -8mm with regard to size and $\pm 5\%$ with regard to weight/mass of the materials supplied.

12. INSPECTION OF STORES:

The deficiency found in size or weight of item shall be subject to:

- a) The deduction on cost of the material supplied on pro rata basis to the extent of deviation exceeding above tolerance limits up to +20mm, -10 mm in size and $\pm 6\%$ in weight/mass.
- (b) The rejection of materials supplied in case the extent of deviation exceeds the limit of +20mm, -10 mm in size and $\pm 6\%$ in weight/mass and the remedial measures prescribed under “15.2.4.1” and “15.2.4.2” of clause 15.2.4 of Annexure I to the NIT will be invoked.
- (c) The inspection of the stores will be conducted at PSD Ludhiana after supply of store at the cost of supplier. The contractor shall certify that the materials supplied are strictly as per specifications fixed in NIT & as per BIS Standards IS 17399:2020 and send a LAB test Report from NABL Accredited LAB. with each supply. Sampling will be done strictly as per clause 9 of Annexure V i.e strictly as per BIS Standard IS 17399:2020.

13. ELIGIBILITY:

- 13.1 **Annual Turnover:** Annual turnover of the bidder must be **300 Lakh** (equal to 3 times of the estimated drawal Rs. 100,00,000/-) or greater than that of during three financial years: **2018-19, 2019-20 & 2020-21 (Financial Year)**. The bidders with lesser turnover will be rejected in Technical Bid Evaluation. The authenticated documents showing Annual Turnover of the three financial years must be attached with technical bid failing which the tender will be rejected.

- 13.2 **Experience in Related Field:** The bidder must have supplied Poly Propylene/HDPE Bags to Central Government Departments /State Government Departments/Public Sector Undertakings/Central Public enterprises/Corporate Customers i.e Companies which are Registered under Companies Act 1956 during two (2) years, between **2019-20 to 2021-22** failing which the tender will be rejected.

- 13.3 **Registration:** Tenderer must be registered with NSIC/MSME/ DGS&D/Central Purchase organization /Any Ministry under Govt. of India / Any Central Govt. Departments for supply/manufacturing of PP /HDPE Bags or Sacks. Copy of tenderer valid registration certificate is to be uploaded in Technical Bid. The tenderer not registered with any of the authority for manufacturing of PP bags shall be summarily rejected.

- 13.4 In the line of Government Public Procurement Order No. P-45021/2/2017-(BE-II) dtd. 15.06.2017 & 16.09.2020, or as amended from time to time and as applicable on the date of submission of tender, Only Class- I Local Supplier (Class- I local supplier means a supplier whose goods or works offered for procurement, meets minimum local contents as prescribed for class I local supplier under Govt. of India Order) is eligible for the Tender., A self certification for verification of Local Contents under preference to Make in India Policy is to be given by the vender and a self certification Performa is given in Annexure II, Part VII.

e-tender No. **SD/1-6/PP Bags/2021-22/T-1**
Department of Posts India
ANNEXURE-II PART-III
PRE CONTRACT INTEGRITY PACT

Subject: Supply of Polypropylene Bags of three different sizes as per BIS standards IS 17399:2020.

General

This pre-bid pre-contract Agreement (hereinafter called the integrity Pact) is made on day of the month of **2022**, between, on one hand, the President of India acting through Superintendent Postal Stores Depot Ludhiana (hereinafter called the “BUYER”, which expression shall mean and include, unless the context otherwise requires, his successors in office and assigns of the First Part and M/S represented by Shri, Chief Executive Officer (hereinafter called the “TENDERER/Seller” which expression shall mean and include, unless the context otherwise requires, his successors and permitted assign) of the Second Part.

WHEREAS the BUYER proposes to procure **Supply of Polypropylene Bags of three different sizes.** and the TENDERER/Seller is willing to offer/has offered the stores and WHEREAS the TENDERER is a private company / public company / government undertaking / partnership / registered export agency, constituted in accordance with the relevant law in the matter and the BUYER is a Ministry of Communication & IT / Department of the Government of India viz Superintendent Postal Stores Depot Ludhiana performing its functions on behalf of the President of India.

NOW, THEREFORE,

To avoid all forms of corruption by following a system that is fair, transparent and free from any influence / prejudiced dealings prior to, during and subsequent to the currency of the contract to be entered into with a view to:-

Enabling the BUYER to obtain the desired said stores / equipment at a competitive price in conformity with the defined specifications by avoiding the high cost and the distortionary impact of corruption on public procurement, and Enabling TENDERERS to abstain from bribing or indulging in any corrupt practice in order to secure the contract by providing assurance to them that their competitors will also abstain from bribing and other corrupt practices and the BUYER will commit to prevent corruption, in any form, by its officials by following transparent procedures. The parties hereto hereby agree to enter into this Integrity Pact and agree as follows:

1. **Commitments of the BUYER**

- 1.1 The BUYER undertakes that no official of the BUYER, connected directly or indirectly with the contract, will demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the TENDERER, either for themselves or for any person, organization or third party related to the contract in exchange for an advantage in the bidding process, bid evaluation, contracting or Implementation process related to the contract.

- 1.2.1 The BUYER will, during the pre-contract stage, treat all TENDERERS alike, and will provide to all TENDERERS the same information and will not provide any such information to any particular TENDERER which could afford an advantage to that particular TENDERER in comparison to other TENDERERS.
- 1.2.2 All the officials of the BUYER will report to the appropriate Government office any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.
2. In case any such preceding misconduct on the part of such official(s) is reported by the TENDERER to the BUYER with full and verifiable facts and the same is prima facie found to be correct by the BUYER, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings may be initiated by the BUYER and such a person shall be debarred from further dealings related to the contract process. In such a case while an enquiry is being conducted by the BUYER the proceedings under the contract would not be stalled.
3. **Commitments of Tenderers:** The Tenderer commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre-contract or post-contract stage in order to secure the contract or in furtherance to secure it and in particular commit itself to the following:-
- 3.1 The Tenderer will not offer directly or through intermediaries any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BUYER, connected directly or indirectly with the bidding process or to any person, organization or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the contract.
- 3.2 The Tenderer further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the Buyer or otherwise in procuring the Contract or forbearing to do or having done any act in relation to the obtaining or execution of the contract or any other contract with the Government for showing or forbearing to show favour or disfavor to any person in relation to the contract or any other contract with the Government.
- 3.3 The Tenderer, either while presenting the bid or during pre-contract negotiations or before signing the contract, shall disclose any payments he has made, is committed to or intends to make to officials of the Buyer or their family members, agents, brokers or any other intermediaries in connection with the contract and the details of services agreed upon for such payments.
- 3.4 The Tenderer will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract.
- 3.5 The Tenderer will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.
- 3.6 The Tenderer shall not use improperly, for purposes of competition or personal gain or pass on to others, any information provided by the Buyer as part of the business relationship, regarding plans, technical proposals and business details, including information contained in any electronic data carrier. The Tenderer also undertakes to exercise due and adequate care lest any such information is divulged.

- 3.7 The Tenderer commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.
- 3.8 The Tenderer shall not instigate or cause to instigate any third person to commit any of the actions mentioned above.
- 3.9 If the Tenderer or any employee of the Tenderer or any person acting on behalf of the Tenderer either directly or indirectly is a relative of any of the officers of the Buyer or alternatively, if any relative of an officer of the Buyer has financial interest/stake in the Tenderer's firm, the same shall be disclosed by the Tenderer at the time of filing of e-tender. The term 'relative' for this purpose would be as defined in Section 6 of the Companies Act 1956.
- 3.10 The Tenderer shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee of the Buyer.
4. **Previous Transgression**
- 4.1 The Tenderer declares that no previous transgression occurred in the last three years immediately before signing of this Integrity Pact, with any other company in any country in respect of any corrupt practices envisaged hereunder or with any Public Sector Enterprises in India or any Government Department in India that could justify Tenderer's exclusion from the e-tender process.
- 4.2 The Tenderer agrees that if it makes incorrect statement on this subject, Tenderer can be disqualified from the e-tender process or the contract, if already awarded can be terminated or such reason.
5. **(Security Deposit):** In case of the successful Tenderer a clause would also be incorporated in the Article pertaining to Performance **Bond** in the Purchase Contract that the provisions of Sanctions for violation shall be applicable for forfeiture of Performance **Bond** in case of a decision by the Buyer to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.
6. **Sanctions for violations:**
- 6.1 Any breach of the aforesaid provisions by the Tenderer or any one employed by it or acting on its behalf (Whether with or without the knowledge of the Tenderer) shall entitle the Buyer to take all or any one of the following actions, wherever required:-
- (i) To immediately call off the pre contract negotiations without assigning any reason or giving any compensation to the Tenderer. However, the proceedings with the other Tenderer (s) would continue.
 - (ii) The Security Deposit / Performance Bond (after the contract is signed) shall stand forfeited either fully or partially as decided by the Buyer and the Buyer shall not be required to assign any reason therefore.
 - (iii) To immediately cancel the contract, if already signed, without giving any compensation to the Tenderer.
 - (iv) To recover all sums already paid by the Buyer and in case of an Indian Tenderer with interest thereon at 2% higher than the prevailing Prime Lending Rate of State Bank of India. If any outstanding payment is due to the Tenderer from the Buyer in connection with any other contract for any other stores, such outstanding payment could also be utilized to recover the aforesaid sum and interest.
 - (v) To encash the advance bank guarantee and performance bond/warranty bond, if furnished by the Tenderer, In order to recover the payments, already made by the Buyer along with interest.

- (vi) To cancel all or any other contracts with the Tenderer. The Tenderer shall be liable to pay compensation for any loss or damage to the Buyer resulting from such cancellation/rescission and the Buyer shall be entitled to deduct the amount so payable from the payment(s) due to the Tenderer.
- (vii) To debar the Tenderer from participating in future bidding processes of the Government of India for a minimum period of five years which may be further extended at the discretion of the Buyer.
- (viii) To recover all sums paid in violations of this Pact by Tenderer (s) to any middlemen or agent or broker with a view to securing the contract.
- (ix) Forfeiture of Performance Bond in case of a decision by the Buyer to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.

6.2 The Buyer will be entitled to take all or any of the actions mentioned at Para 6.1 (i) to (ix) of this Pact also on the Commission by the Tenderer or any one employed by it or acting on its behalf (whether with or without the knowledge of the Tenderer), of an offence as defined in Chapter IX of the Indian Penal Code, 1860 or Prevention of Corruption Act, 1988 or any other statute enacted for prevention of corruption.

7. **Fall Clause**

7.1 The Tenderer undertakes that it has not supplied/is not supplying similar product/systems or subsystems at a price lower than that offered in the present bid in respect of any other Ministry/Department of the Government of India or PSU and if it is found at any stage that similar product/systems or sub systems was supplied by the Tenderer to any other Ministry/Department of the Government of India or a PSU at a lower price than that vary price with due allowance for elapsed time, will be applicable to the present case and the difference in the cost would be refunded by the Tenderer to the Buyer, if the contract has already been concluded.

8. **Independent Monitors** The Department of Posts has appointed Independent Monitor (hereinafter referred to as Monitors) whose Name and Address is given below.

Mr. Rakesh Kakkar, Ex-Secretary to Govt. Of India
Lodhi Road, New Delhi-110 003.

8.2 The task of the Monitors shall be to review independently and objectively, whether and to what extent the parties comply with the obligations under this Pact.

8.3 The Monitors shall not be subject to instructions by the representatives of the parties and perform their functions neutrally and independently.

8.4 Both the parties accept that the Monitors have the right to access all the documents relating to the project/ procurement, including minutes of meetings.

8.5 As soon as the Monitor notices, or has reason to believe, a violation of this Pact, he will so inform the Authority designated by the BIDDER.

8.6 The BIDDER(S) accepts that the Monitor has the right to access without restriction to all Project documentation of the BUYER including that provided by the BIDDER. The BIDDER will also grant the Monitor upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to subcontractors. The Monitor shall be under contractual obligation to treat the information and documents of the BIDDER / Subcontractor(s) with confidentiality.

8.7 The BUYER will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the parties. The parties will offer to the Monitor the option to participate in such meetings.

8.8 The Monitor will submit a written report to the designated Authority of BUYER/Secretary in the Department/within 8 to 10 weeks from the date of reference or intimation to him by the

BUYER/BIDDER and, should the occasion arise, submit proposals for correcting problematic situations.

9. **Facilitation of Investigation:** In case of any allegation of violation of any provisions of this Pact or payment of commission, the Buyer or its agencies shall be entitled to examine all the documents including the Books of Accounts of the Tenderer and the Tenderer shall provide necessary information and documents in English and shall extend all possible help for the purpose of such examination.

10. **Other Legal Actions:** The actions stipulated in this integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the extant law in force relating to any civil or criminal proceedings.

11. **Validity:**

11.1 The validity of this integrity Pact shall be from date of its signing and extend up to one year from the date of Tender Award or the complete execution of the contract to the satisfaction of both, the Buyer and the Tenderer/Seller, including warranty period, whichever is later. In case Tenderer is unsuccessful, this Integrity Pact shall expire after six months from the date of the signing of the contract.

11.2 Should one or several provisions of this Pact turn out to be invalid: the remainder of the Pact shall remain valid. In this case, the parties will strive to come to an agreement to their original intentions.

12. The parties hereby sign this integrity Pact at _____ on _____

BUYER

Name of the Officer

Designation

Deptt./Ministry/PSU

Witness

1.

2.

TENDERER

Chief Executive Officer

Witness

1.

2.

Annexure-II Part-IV

General Instructions to the Tenderers for Responding on e-Procurement Module of CPPP

Subject: Supply of Polypropylene Bags of three different sizes as per BIS standards IS 17399:2020.

A Basic Requirement for eProcurement:

1. The foremost requirement of participation in e-tender is to have DSC (Digital Signature Certificate: class II or class III with signing key usage) issued by any certifying authority recognized by CCA India (i.e. SIFY/ TCS/n-Code/ e-Mudra etc.).
2. The tenderers are required to submit soft copies of their bids electronically on the CPP Portal along with supporting documents, authenticating by signing with their DSCs.

B Registration/Enrollment on the CPP Portal: It is free of charge on CPP Portal. The instructions given below are meant to assist the tenderers in registering on CPP Portal, to prepare their Bids in accordance with the requirements of CPP Portal and submitting their bids online on the CPP Portal.

1. Tenderers are required to go to web link <http://eprocure.gov.in/eprocure/app>
2. To enroll click on '**Online Bidder Enrollment**' on the right side of the web page.
3. As part of the enrolment process, the tenderers will be required to choose a unique user name and assign a password for their accounts.
4. Tenderers are advised to register their valid e-mail address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
5. Upon enrolment, the tenderers will be required to register their valid Digital Signature Certificate (DSC) with their profile.
6. Only one valid DSC should be registered by a tenderer. Please note that the tenderers are responsible to ensure that they do not lend their DSCs to others which may lead to misuse.
7. Tenderers then log into the website <http://eprocure.gov.in> through the secured login by entering their user ID/ password and the password of the DSCs/e-token.

C. Searching for e-tender Documents on CPP Portal:

1. There are various search options built in <http://eprocure.gov.in> under 'Search the Tender' at left side of the website to facilitate tenderers to search active tenders by several parameters. These parameters include Tender Search, Latest Active Tenders, Active Tenders State/UT, Cancelled Tenders, Tender ID, Tender Calendar, Tender Closing Today & Corrigendum.
2. The tenders can be searched **by name of organization** e.g. by selecting '**Department of Posts**' in 'TENDER SEARCH FORM' all tenders of Department of Posts will appear at one place.
3. Similarly the tenders may be searched on base on given parameters 'Latest Active Tenders' (further filters Closing Today, Closing within 7 Days, Closing within 14 days or By Closing Date) or by selecting Organization Name, Product Category, Location/City and Keywords in menu 'TENDER SEARCH FORM' which will flash on clicking on 'Tender Search'. There is also an option of advance search for tenders, wherein the tenderers may combine a number of such parameters mentioned above to search for a tender published.

D. After selection of Tenders: Once the tenderers have selected the tenders they are interested in they may download the required documents / e-tender schedules. These e-tenders can be moved to the respective "My Tender" folder. This would enable the CPP Portal to intimate the tenderers through SMS/e-mail in case there is any corrigendum issued to the e-tender document.

1. The tenderer should make a note of the unique tender ID assigned to each tender, in case they want to obtain any clarification/help.

E. Web-learning Sessions: Month-wise Training schedules are available at hyperlink: [Web-learning sessions on CPP Portal](#) for 'Bidder Training Registration', 'DSC Enrollment' and 'Submission of online bids'. The bidder may attend such programs for acquaintance with eProcurement process. The details of Pre-requisites to Attend the Training Session' and 'How to Join the Training Session' are also available there.

DOCUMENTS TO BE UP-LOADED IN CPP PORTAL ALONG WITH TECHNICAL BID

Subject: Supply of Polypropylene Bags of three different sizes as per BIS standards IS 17399:2020.

The scanned copies of following document are to be up-loaded in CPP Portal.

The scanned copies of following document are to be up-loaded in CPP Portal, failing to which the tender will be summarily rejected.

1. Scanned copy of e-tender, it's Annexures, Integrity Pact and Declaration be signed & stamped in addition to digital signing.
2. Scanned copy of attested and Valid **Registration Certificate** issued by NSIC/MSME/ DGS&D/Central Purchase organization /Any Ministry under Govt. of India / Any Central or State Govt. Departments for supply/manufacturing of PP /HDPE Bags or Sacks, showing 'status' of concern.
3. Scanned copy of **PAN Card**.
4. Scanned copy of **GST Registration Certificate**.
5. Scanned copies of authenticated documents showing **annual turn-over of three years** as required vide clause 13.1 of Annexure-II Part-II.
6. Scanned copies of **Supply Orders showing Two years' experience** in supplied Poly Propylene/HDPE Bags to Central Government Departments /State Government Departments/Public Sector Undertakings/Central Public enterprises/Corporate Customers i.e Companies which are Registered under Companies Act 1956 during two (2) years, between **2019-20 to 2021-22** (as required in clause 13.2 of Annexure-II Part-II).
7. Scanned **copy of Partnership Deed** (Registered with competent Authority) / General Power of Attorney / Incorporation Certificate / Articles of Association (**if applicable**-see Clause 5 of Annexure I).
8. Scanned copy of the certificate issued by competent authority for claiming of purchase preference applicable to reserve categories (see clause 25.4 of Annexure-I) if the Tenderer belongs to SC/ST category (**if applicable**).
9. Scanned **copy of Income Tax Returns filled for financial years of 2018-19, 2019-20 and 2020-2021**.
10. **Detail of technical facilities** for executing the work i.e Plant and Machinery , Equipments, Associated Security Features etc. (attach relevant details)
11. **Self certification proforma** (as per Annexure II, Part VII) under Public procure Order 2017 (see clause 26 of Annexure -I)
12. **Bid Security Declaration** as per Part VI, Annexure II.

NB: Non submission of above documents will result in rejection of **Technical Bid**.

Annexure-II Part-VI

Department of Posts India

Subject: Supply of Polypropylene Bags of three different sizes as per BIS standards IS 17399:2020 .

BID Securing Declaration as per Rule 170 (iii) of GFR 2017

I/We.....
hereby undertake that by signing this bid security declaration, I/We hereby accept all terms/Conditions of this Tender, I also hereby undertake that if we withdraw or modify our bids during the period of validity , or if we awarded the contract and we fail to sign the contract, or failed to submit a performance security before the deadline defined in the bid documents, our concern will liable to be suspended for the period of three years from being eligible to submit bids for contracts with all the entity that invited the bids and I/we will be debarred from participation of all types of bids for three years at all the levels.

(Seal and Signature of Authorized Signatory)

Annexure-II Part-VII

Department of Posts, India

Subject:- Supply of Polypropylene Bags of three different sizes as per BIS standards IS 17399:2020 .

Self Certification under Preference to“MAKE IN INDIA” Policy

(Refer Clause No.26 of Annexure -I of Tender)

CERTIFICATE

In line with Government of India, Public Procurement Order No. P-45021/2/2017-BE-II dtd. 15.06.2017 & 16.09.2020, *as amended from time to time and as applicable on the date of submission of tender*, I/we _____ (Supplier Name) hereby certify that I/we are local supplier meeting the requirement of minimum Local content (50%) as defined in above orders for the material against Tender No. **SD/1-6/PP Bags/2021-22/T-1**

Details of location at which local value addition will be made are as follows:

I/We, also understand, false declarations will be in breach of the Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rule for which for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.

(Seal and Signature of Authorized Signatory)

e-tender No. SD/1-6/PP Bags/2021-22/T-1

Department of Posts India

ANNEXURE-III

e-tender FORM-1 TECHNICAL INFORMATION

(See Clause 6 of Annexure I of this e-tender Document)

(Tenderer may use separate sheet wherever required)

Subject: Supply of Polypropylene Bags of three different sizes as per BIS standards IS 17399:2020 .

Sr No	Information Required for Technical Bid (Supporting documents concerning columns 1 to 11 are to be uploaded on CPP Portal- Compulsory)	To be filled by tenderer
1	Name of the Concern Tel./Mo. No: e-mail IDs: Postal Address:	
2	Nature of Concern: Sole Proprietorship or Partnership Firm or Company.	
3	3.1 Name of the person who will sign the tender electronically. 3.2 Capacity in which he will sign (see clause 5 of Annexure I)	
4	Whether each page of tender, its Annexure & Integrity Pact have been signed, stamped as well as digitally signed.	
5	Whether the concern is registered with NSIC/MSME/ DGS&D/Central Purchase organization /Any Ministry under Govt. of India / Any Central or State Govt. Departments for supply of tendered item. Enclose copy of valid registration	
6	Size & Type of Printing machines installed, submit detail. (Attach relevant documents)	
7	GST Registration Number. Enclose copy	
8	PAN Number (For TDS): (Enclosed photo copy of PAN Card) (Enclose copies of IT Returns for Financial years 2018-19, 2019-20 and 2020-21.	2018-19..... 2019-20..... 2020-21.....
9	Annual Turnover during three years (in Lakhs): Minimum eligibility 300 Lakh. Enclose Copy of Authenticated Document.	2018-19..... 2019-20..... 2020-21.....
10	Have you supplied the Circular Woven Polypropylene bags to any Central Government Departments /State Government Departments/Public Sector Undertakings/Central Public enterprises/Corporate Customers i.e Companies which are Registered under Companies Act 1956 in Two Financial Years (2) years? (Enclose copy of supply orders), between 2019-20 to 2021-22	
11	Whether the MSE is owned by SC/ST Entrepreneur? (Yes/No) (Attach Copy of SC/ ST Certificate)	
12	Self Certification under Preference to "MAKE IN INDIA" Policy	
13	Any other information considered important.	

UNDERTAKING

- I undertake that I have carefully studied all the terms and conditions and understood the parameter of the proposed work of the Department of Posts and shall abide by them.
- I also undertake that I have read the BIS standards IS 17399:2020, annexed to this tender as Annexure V and also understood "Parameters and Technical Specifications for conducting the Work" as mentioned in Part I, Annexure-II of e-tender No- SD/1-6/PP Bags/2021-22/T-1 and shall conduct the work strictly as per BIS Standards IS 17399:2020 and as per "Parameters and Technical Specification for conducting the Work".**
- I further undertake that the information given in this e-tender is true and correct in all respect and **scanned copies uploaded by me are genuine and I hold the responsibility for the same.**
- I hereby declare that while applying for the e-tender under reference, my firm is **neither banned nor blacklisted** by any unit of Department of Posts India or any black-listing is current on the e-tender opening date.

(Dated Signature of the tenderer with stamp of the firm)

ANNEXURE-IV

Department of Posts, India

Subject: Supply of Polypropylene Bags of three different sizes as per BIS standards IS 17399:2020 .

Commercial BID (in BOQ Format)

(See Clause 7 of Annexure I of this e-tender Document)

(Tenderer may use separate sheet wherever required)

Commercial bid for Polypropylene Woven Bags

I/We _____ (Name of Firm), hereby quote our rates inclusive of all taxes (GST) and FOR Postal Stores Depot (Bag store) Ludhiana for the items as under:-

RATE PER BAG

Bag Type	Dimensions of bags	Mass/weight of laminated bag	Colour	Rate per bag (inclusive all)
Type I	(H) 750mm X (L) 350mm X (W) 350mm (Small) with minimum 35 Kg loading Capacity	135 gms	Khaki	
Type II	(H)1050mmX(L)350mmX(W) 350mm (Middle) with minimum 35 Kg loading Capacity	180 gms	Khaki	
Type II	H)1050mmX(L)350mmX(W) 350mm (Middle) with minimum 35 Kg loading Capacity	180 gms	Yellow	
Type III	(H)1220mm X(L)455mm X (W)455mm (Large) with minimum 35 Kg loading capacity	266 gms	Yellow	

ANNEXURE-IV

Department of Posts, India

Subject: Supply of Polypropylene Bags of three different sizes as per BIS standards IS 17399:2020 .

BIS Standards IS 17399:2020

वस्त्रादि — मेल छंटाई, भंडारण, परिवहन और
वितरण के लिए पोलिप्रोपाइलीन (पीपी)/
उच्च घनत्व पोलिइथाइलीन (एच. डी. पी. ई)
के परत युक्त बुने हुए बोरे — विशिष्टि

Textiles — Polypropylene (PP)/
High Density Polyethylene (HDPE)
Laminated Woven Sacks for Mail
Sorting, Storage, Transport and
Distribution — Specification

ICS 55.080

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भारतीय मानक ब्यूरो
BUREAU OF INDIAN STANDARDS
मानक भवन, 9 बहादुरशाह ज़फर मार्ग, नई दिल्ली – 110002
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI-110002
www.bis.gov.in www.standardsbis.in

November 2020

Price Group 6

FOREWORD

This Indian Standard was adopted by the Bureau of Indian Standards, after the draft finalized by the Textile Materials Made from Polyolefins (Excluding Cordage) Sectional Committee had been approved by the Textiles Division Council.

Polypropylene and high density polyethylene laminated woven fabric sacks are being used for sorting, storage, transport and distribution of mail parcels. This standard has been prepared taking into consideration the increased consumption of laminated woven sacks for postal services. The advantages of laminated woven sacks are high tensile strength, outstanding durability, good dimensional stability, easy handling, partial waterproofing property, improved barrier to moisture, light weight, good aesthetics and good printability for multicolour graphic images.

The composition of the Committee responsible for the formulation of this standard is given at Annex F.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Indian Standard

TEXTILES — POLYPROPYLENE (PP)/HIGH DENSITY POLYETHYLENE (HDPE) LAMINATED WOVEN SACKS FOR MAIL SORTING, STORAGE, TRANSPORT AND DISTRIBUTION — SPECIFICATION

1 SCOPE

This standard prescribes requirements of polypropylene (PP) and high-density polyethylene (HDPE) laminated woven sacks for mail sorting, storage, transport and distribution.

This standard defines commonly used terminology, fabric construction details and specification, sack description, sack dimensions, testing and analysis of sacks and, sack performance criteria.

2 REFERENCES

The standards listed in Annex A contain provisions which through reference in this text, constitute provision of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated in Annex A.

3 TERMINOLOGY

For the purpose of this standard, the following definitions shall apply.

3.1 Flat Fabric — Woven fabric in the form of a flat sheet. The flat fabric may be produced by longitudinally cutting the circular woven tubular fabric and subsequent winding of the cut open fabric in flat form on winding roll. Alternately, flat fabrics may also be produced on flat weaving looms.

3.2 Grommet — A ring or edge strip inserted into a hole through fabric. Grommets are generally flared or collared on each side to keep them in place and are often made of metal or plastic.

3.3 Laminated Woven Sack — A flexible container made essentially from woven fabric and coated with a thin film of polymer and closure at bottom end with an open top.

3.4 Lamination — Extrusion coating of thin film of polymer on woven fabric surface to improve barrier to moisture vapour and for better aesthetics.

3.5 Open Mouth Sack — Fabricated sack with closure at bottom end and with an open top end.

3.6 Tubular Fabric — Woven fabric in the form of a cylindrical tube. The tubular fabric may be circular seamless woven fabric produced on a circular weaving loom.

3.7 Unlaminated Woven Sack — A flexible container made essentially from woven fabric, with closure at bottom end and with an open top end.

3.8 UV Stabilization — UV stabilizing is additive treatment of polymer during tape extrusion process to enhance tape performance against degradation of useful properties caused by sunlight during outdoor weathering.

4 TYPES

The sacks shall be categorized under 3 types as Type I, Type II and Type III, based on sack dimensions as given in 5.4.2, however, the weight carrying capacity for all types of sacks shall be minimum 35 kg. The different sizes of sacks are required for storage and packing of different bulk density parcels.

5 MANUFACTURE**5.1 Raw Materials**

Raw materials PP and HDPE used for manufacture of tape shall conform to the requirements specified in IS 10910 or IS 10146, respectively, excluding overall migration.

NOTES

1 As agreed to between the buyer and the seller, the tapes may be UV stabilized to enhance outdoor weatherability resistance.

2 Woven sack manufacturers may use maximum up to 10 percent of reworked inhouse process waste (excluding laminated fabric waste), without compromising the final performance criteria of sack.

3 All materials used for manufacturing of laminated woven sack shall be chosen in such a way that reprocessing is promoted.

5.2 Fabric

The flat fabric used in the manufacture of laminated woven fabric sacks shall be woven from tapes having 2.5 ± 0.2 mm tape width, conforming to IS 11197 for PP tapes and IS 6192 for HDPE tapes. The tapes may be of white colour or any other colour as agreed

between buyer and seller. The linear density of tapes shall be 800 denier and, fabric shall be of 10×10 mesh. The denier of tape used in the manufacture of woven fabric shall be subjected to the following tolerances:

- a) ± 10 percent on individual value, and
- b) ± 5 percent on average.

The construction of fabric shall be as given in Table 1. The unlaminated fabric mass, when tested as per the method given in Annex B, shall be minimum 70 g/m^2 .

5.3 Lamination

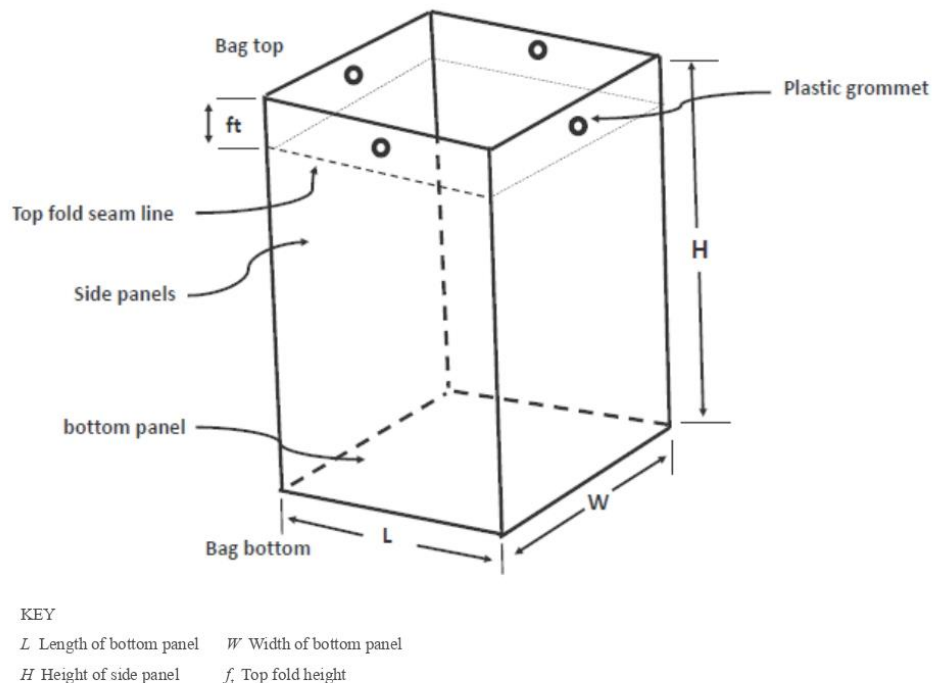
PP/HDPE flat fabric, before converted into sacks shall be laminated on one side with a thin film of polypropylene for PP sacks or linear low-density polyethylene (LLDPE) for HDPE sacks. For improved adhesion and good lamination processability, addition of low-density polyethylene (LDPE) and small quantity of special elastomers in coating formulation may be used.

The coating mass for lamination applied to base fabric shall be minimum 25 g/m^2 . The total mass of laminated woven fabric, when tested as per the method given in Annex B, shall be minimum 95 g/m^2 .

5.4 Sack Fabrication

The flat laminated fabric shall be cut into desired shape and size to make side panels and bag bottom. The bottom panel shall be of square shape whereas, the four side panels shall be of rectangular shape. The side panels, if required, may be printed before sack fabrication process.

Sacks shall have a shape like hollow cuboid with closed bottom and an open top as shown in Fig. 1. The sack shall be fabricated by assembly of intermediate parts cut from the woven laminated fabric. The side panels are first stitched for top fold (f_t). The top fold height shall be of minimum 30 mm and hemmed to sew down the top edge of side panel. The four side panels shall then stitch together at the longitudinal edges from inner side. The stitch row shall be 20 mm from the edge of the fabric to ensure the durable seam and prevent unravelling of stitches and tampering. Then, the bottom panel shall be securely attached to the bottom edges of the side panel assembly by stitching. Finally, one grommet shall be fitted on top fold at the centre of each side panels. The grommet preferably shall be made of plastic and shall have the inner diameter hole of minimum 12.5 mm for holding the bag by inserting the hook or for channeling of tying cord. Figure 1 shows typical dimensional designations for sack.



Dotted line on side panels at top indicate top fold closure seam.

FIG. 1 SCHEMATIC DIAGRAM AND DIMENSIONAL DESIGNATIONS OF SACK

5.4.1 Seam

The stitching for assembly of side panels at longitudinal edges and stitching of bottom panel to bottom edges of side panels, both shall be done with lock stitch or chain stitch type (see IS 10789) or as agreed to between the buyer and the seller. For attaching the bottom panel, the stitching shall be done with single fold over seam, so that the stitches pass through a minimum of four layers of the fabric. For double row stitch, two rows of stitches shall be separated from each other by minimum 5 mm and the outer stitch shall be minimum 8 mm from the folded fabric edge. The number of stitches/dm shall be 12 ± 2 . The stitching shall be uniform and without any missing stitch, loose thread or a knot.

The material used for stitching shall be polypropylene multifilament yarn or spun yarn twisted thread suitable for the purpose, having breaking load not less than 90 N (see Note). For UV stabilized sacks, the material for stitching shall be UV stabilized.

NOTE — For breaking load testing of stitching thread, the nominal gauge length or the initial distance between the clamps before start of test, shall be 200 mm. The test shall be carried out at the rate of traverse of 300 ± 15 mm/min.

5.4.2 Sack Dimensions

The dimensions of PP/HDPE woven fabric sacks of different types used for sorting, storage, transport and distribution of mail parcels shall be as given below:

Dimensions	Sack Type		
	Type I	Type II	Type III
L and W	350×350	350×350	455×455
H	750	1050	1220
NOTE – Refer Fig. 1 for dimensional designation.			

5.5 Capacity

The sack shall have the nominal holding capacity of 35 kg for all sack types.

6 REQUIREMENTS

6.1 Mass of Bale

The mass of a bale of sacks, excluding packing materials, shall be within ± 3 percent of the mass calculated by multiplying the number of sacks with the mass of a sack as specified in Table 1.

6.2 Breaking Strength of Laminated Fabric

The breaking strength and elongation at break of laminated fabric shall be measured in accordance with IS 1969 (Part 1). The average breaking strength of laminated fabric at lengthwise and widthwise shall be determined separately.

For stitch seam strength determination, specimen shall be prepared according to IS 9030. It shall be ensured that the stitch seam portion shall be in the midpoint of the test sample length.

The samples selected for fabric breaking strength and stitch seam strength tests shall be free from defects in visual inspection, dimensions, mesh and mass requirements. The tests shall be carried out on the fabric sample taken from center portion of the sack.

6.3 Ash Content

The laminated sack fabric shall be tested for ash content in accordance with the test procedure given in Annex C and shall meet the requirements as specified in Table 1.

6.4 UV Resistance Test

As agreed to between the buyer and the seller, sacks may be manufactured from UV stabilized raffia fabrics. The UV stabilized woven laminated fabric shall have minimum 50 percent retention of the initial breaking strength when tested after the same has been exposed to UV radiation and accelerated weathering in accordance with the test method given in Annex D.

6.5 The sacks shall also conform to the requirements as specified in Table 1.

7 PRINTING, PACKAGING AND MARKING

7.1 Printing

The side panels may be printed by stencil stamping in mono colour. If desired by buyer, the side panels may also be multicolour printed using offset lithography, flexography, gravure or digital printing process. The sacks shall also be printed with identification mark of the sack manufacturer along with the information as required by the buyer using suitable printing ink.

7.2 Packaging

The sacks shall be packed to form a bale using a wrapping layer of PP/HDPE woven fabric and suitably secured. The bale shall contain 500 sacks or as agreed to between the buyer and the seller.

7.3 Marking on Sacks

7.3.1 The sacks shall be marked with the following information:

- Name and identification mark of sack manufacturer;
- Recycling logo;
- Swachh bharat logo; and
- Any other information as required by the law in force.

Table 1 Requirements of Laminated Woven Fabric Sacks
(Clauses 5.2, 6.1, 6.3 and 6.5)

Sl No.	Characteristic	Requirement			Tolerance	Method of Test, Ref to
		Type I	Type II	Type III		
(1)	(2)	(3)	(4)	(5)	(6)	(7)
i)	Inside dimensions					
	a) Bottom panel ($L \times W$), mm	350 × 350	350 × 350	455 × 455	$^{+20}_{-10}$ mm	Annex B
	b) Open top ($L \times W$), mm	350 × 350	350 × 350	455 × 455	$^{+20}_{-10}$ mm	Annex B
	c) Height (H), mm	750	1050	1220	$^{+20}_{-10}$ mm	Annex B
ii)	Ends per dm	40	40	40	± 2	Annex B
iii)	Picks per dm	40	40	40	± 2	Annex B
iv)	Mass of laminated sack, g (see Notes 1 and 2)	135	180	266	± 6 percent	IS 1964
v)	Breaking strength of laminated fabric (Cut strip method ¹⁾ , Mtn , N ²⁾ (kgf):					
	a) Lengthwise	785 (80.1)	785 (80.1)	785 (80.1)	—	IS 1969 (Part 1)
	b) Widthwise	785 (80.1)	785 (80.1)	785 (80.1)	—	
vi)	Seam strength of bottom and side panel seam (Cut strip method), Mtn , N ²⁾ (kgf)	343 (35)	343 (35)	343 (35)	—	IS 9030
vii)	Elongation at break of fabric, percent:					
	a) Lengthwise	15 to 25	15 to 25	15 to 25	—	IS 1969 (Part 1)
	b) Widthwise	15 to 25	15 to 25	15 to 25	—	
viii)	Ash content, Max , percent					
	a) For UV stabilized sacks	2.2	2.2	2.2	—	Annex C
	b) For non-UV stabilized sacks	6.0	6.0	6.0	—	

NOTES

1 The buyer and the seller may agree to the mass of unlaminated and laminated fabric per square meter other than those specified in 5.2 and 5.3 respectively. However, the mass per square meter of unlaminated and laminated woven fabric shall comply with the minimum specified mass requirements as stated in 5.2 and 5.3.

2 The buyer and the seller may agree to the sack mass higher than those specified in Table 1, however, tolerances of ± 6 percent as specified in Table 1 shall apply. The mass of such sack shall be calculated as per the method given in Annex E.

¹⁾ Sample width = 50 mm, Gauge length = 200 mm.

²⁾ 1 N = 0.102 kgf (approximately).

7.3 2 The bale cover shall be marked or labelled with the following information:

- Name of the manufacturer;
- Month and year of manufacture;
- Type of sacks;
- Number of sacks in a bale;
- Gross weight;
- Net weight; and
- Any other information as required by the law in force;

NOTES

1 Each sack shall be marked with a recycling logo as shown below. While marking the symbol, the respective basic raw material name corresponding to polymer identification number shall be indicated below the symbol in accordance with IS 14534.

2 Each product shall also be marked with swachh bharat logo, clearly visible at bottom of the sack, either compatible with the art work of the buyer or in black colour for printing the sack.



7.4 BIS Certification Marking

The sacks conforming to the requirements of this standard may be certified as per the conformity assessment schemes under the provisions of the *Bureau of Indian Standards Act, 2016* and the Rules and Regulations framed thereunder, and the sacks may be marked with the Standard Mark.

7.5 Storage

Finished sacks or bales of sacks shall be stored in a ventilated, cool and dry place, covered warehouse at temperature below 50 °C and protected from direct sunlight, smoke, fumes, open flame and radiation.

8 ATMOSPHERIC CONDITIONS FOR SAMPLE CONDITIONING AND TESTING

Prior to test, the specimens shall be conditioned to moisture equilibrium from dry side in the standard atmosphere of 65 ± 2 percent relative humidity and 27 ± 2 °C temperature as laid down in IS 6359.

9 SAMPLING AND CRITERIA FOR CONFORMITY

9.1 Lot

All the PP/HDPE laminated woven sacks packed in bales of the same construction produced under similar conditions of production and delivered to a buyer shall be grouped together to constitute a lot.

9.2 The conformity of lot to the requirements of standard shall be determined on the basis of tests carried out on the samples selected from it.

9.3 The number of samples to be selected depends on the size of lot and the number of bales to be sampled shall be in accordance with col 2 and col 3 of Table 2. The number of sacks to be selected from the bales sampled shall be in accordance with col 4 of Table 2 for visual inspection, ends and picks per decimeter, laminated fabric mass, sack mass and sack dimensions requirements and col 5 of Table 2 for breaking strength of laminated fabric before exposing to UV-radiation, seam strength and elongation at break requirements. The

samples shall be selected in accordance with col 6 of Table 2 for determination of ash content. If applicable, the samples shall also be selected in accordance with col 6 of Table 2 for determination of breaking strength of laminated fabric after UV radiation and weathering test.

9.4 Criteria for Conformity

The lot shall be considered as conforming to the requirements of the standard, if the following conditions are satisfied:

- The number of defective sacks in case of visual inspections, ends and picks per decimeter, laminated fabric mass and sack dimensions is up to 10 percent of the sample size subject to rounding off the fraction to next higher integer.
- None of the sack and bale of 500 sacks weighs less than the respective lower specified limit after allowing tolerance of ± 6 percent on an individual sack and ± 3 percent on a bale of 500 sacks, higher weight may be accepted.
- The average breaking strength of fabric in both lengthwise and widthwise is not less than the value specified and none of the individual sack value is more than 10 percent below the specified value. The test samples selected for breaking strength shall be free from defects in visual inspection, dimensions, ends, picks and mass requirements. The tests shall be carried out on the fabric sample taken from centre portion of the sack.
- The average seam strength of bottom and side panel seam is not less than the value specified and none of the individual sack value is more than 10 percent below the specified value. The test samples selected for seam strength shall be free from defects in visual inspection, dimensions, ends, picks and mass requirements and test carried on the centre portion.
- If applicable, none of the sack sample after exposing to UV radiation and weathering shall have breaking strength less than 50 percent of the original value of unexposed samples.
- None of the sample sack shall have percentage elongation and ash content outside the specified range.

Table 2 Sample Size and Criteria for Conformity

(Clause 9.3)

Sl No.	No. of Sacks in a Lot	No. of Bales to be Sampled	Sample Size for Visual Inspection, Ends and Picks per Decimeter, Laminated Fabric Mass, Sack Mass and Sack Dimension Requirements	Sample Size for Breaking Strength of Laminated Fabric, Seam Strength and Elongation at Break Requirements	Sample Size for Ash Content and Breaking Strength of Laminated Fabric after Exposure to UV Radiation and Weathering Test Requirements
(1)	(2)	(3)	(4)	(5)	(6)
i)	Up to 25 000	3	12	8	1
ii)	25 001 to 50 000	5	20	10	2
iii)	50 001 to 100 000	8	32	13	3
iv)	100 001 to 250 000	12	48	18	4

NOTE — If the number of the bales in a consignment exceeds 500, the same shall be split into number of lots each comprising maximum of 500 bales (1 Bale = 500 sacks).

ANNEX A

(Clause 2)

LIST OF REFERRED INDIAN STANDARDS

<i>IS No.</i>	<i>Title</i>	<i>IS No.</i>	<i>Title</i>
1964 : 2001	Textiles — Methods for determination of mass per unit length and mass per area of fabrics (<i>second revision</i>)	10146 : 1982	Specification of polyethylene for its safe use in contact to foodstuffs, pharmaceuticals and drinking water
1969 (Part 1) : 2018	Textiles — Tensile properties of fabrics: Part 1 Determination of maximum force and elongation at maximum force using the strip method (<i>fourth revision</i>)	10789 : 2000	Textiles — Stitch types — Classification and terminology (<i>first revision</i>)
6192 : 1994	Textiles — Monoaxially oriented high density polyethylene tapes — Specification (<i>second revision</i>)	10910 : 1984	Polypropylene and its copolymer for its safe use in contact with foodstuffs, pharmaceuticals and drinking water
6359 : 1971	Method for conditioning of textiles	11197 : 1985	Specification for monoaxially oriented polypropylene tapes
9030 : 1979	Method for determination of seam strength of jute fabrics including their laminates	14534 : 2016	Plastics — Guidelines for the recovery and recycling of plastics waste (<i>first revision</i>)

ANNEX B

[Clauses 5.2, 5.3 and Table 1, Sl No. (i) to (iii)]

**METHOD OF TEST FOR SACK DIMENSIONS, ENDS AND PICKS
PER DECIMETRE AND FABRIC GSM****B-1 METHOD OF TEST FOR SACK
DIMENSIONS**

Lay each sack as selected in Table 2, flat on a table. Render it free from fold, creases and wrinkles and measures the inside dimensions for length of bottom panel (L), width of bottom panel (W), height of side panel (H) and top fold height (f) about the middle to the nearest 1 mm.

**B-2 METHOD OF TEST FOR ENDS AND
PICKS PER DECIMETER**

Count the ends and picks at two places of each sack as selected in Table 2, with a suitable gauge measuring 100 mm. Care shall be taken to avoid counting same set of warp or weft threads more than once. Determine the average ends/dm and picks/dm of each sack under test.

B-3 FABRIC MASS PER UNIT AREA (GSM)

The mass of unlaminated or laminated fabric per unit area is commonly referred to as GSM, the mass in gram per square meter. To determine the mass of fabric per unit area, lay each fabric sample flat on a table top and render it free from folds, creases and wrinkles. Mark the fabric for 100×100 mm square area and precisely cut the test specimen. Specimens may also be cut from fabric using a template with sharp cutter of dimensions 100×100 mm. Weigh the cut test specimen in grams by digital balance with an accuracy of 0.1 g. Compute the GSM of the cut test specimen by multiplying the digital balance reading by 100. The mean of 10 readings shall be taken over a length of not less than 2 m and reported as mean fabric mass in grams per square meter.

ANNEX C

[Clause 6.3 and Table 1, Sl No. (viii)]

DETERMINATION OF ASH CONTENT**C-1 PRINCIPLE**

The procedure is used to find out the inorganic residue in raffia tape/fabric sample by ashing it in a muffle furnace. A weighed amount of tape/fabric sample is heated to $590 \pm 10^\circ\text{C}$. The polymer sample (organic portion) is burnt at $590 \pm 10^\circ\text{C}$ until constant mass of inorganic matter is obtained. The residue (inorganic matter) is reported in terms of percentage ash content in a given sample.

C-2 APPARATUS

C-2.1 Weighing Balance, accurate to 0.001 g.

C-2.2 Silica Crucibles, sufficient volume to accommodate 3 g of sample in such a way that level of the sample after filling the crucible does not cross half the height of crucible.

C-2.3 Bunsen Burner

C-2.4 Silica Triangle and Tripod

C-2.5 Muffle Furnace, capable of being controlled thermostatically at $590 \pm 10^\circ\text{C}$.

C-2.6 Desiccator, containing an effective drying agent (for example silica gel) that does not react chemically with ash components.

C-2.7 Gloves and Crucible Holder

C-3 SAFETY

C-3.1 Burn the sample in an effectively ventilated hood.

C-3.2 Keep the hood closed and do not inhale the fumes of combustion.

C-3.3 Wear gloves and use sample (crucible) holder, to introduce crucible in the furnace.

C-3.4 Sample should be folded properly to accommodate it in silica crucible

C-4 PROCEDURE

C-4.1 Heat the clean crucible at $590 \pm 10^\circ\text{C}$ for 10 to 15 min and cool it in a desiccator.

C-4.2 Weigh the empty crucible to nearest 0.001 g.

C-4.3 Weigh about 3 g of raffia tape/fabric sample in the crucible (nearest to 0.001 g).

C-4.4 Heat the crucible directly on bunsen burner so that the sample burns slowly and loss of ash is avoided. Continue burning until no more smoke is evolved.

C-4.5 Transfer the crucible in the muffle furnace, which is already maintained at approximately 590 °C and keep the crucible inside for about 2 h.

C-4.6 Remove the crucible from the furnace and cool

it to the room temperature in a desicator. Weigh it and record the weight to accuracy of 0.001 g.

C-4.7 Keep the crucible in the muffle furnace for another half an hour, cool in a desicator and weigh again. Repeat the procedure until constant mass is obtained.

C-5 CALCULATIONS

$$\text{Percent ash content} = \frac{\text{Weight of ash}}{\text{Weight of raffia or tape sample}} \times 100$$

ANNEX D

(Clause 6.4)

UV RESISTANCE TEST

D-1 To determine the effect of UV radiation and weathering on the breaking strength, the HDPE/PP laminated woven fabric shall be exposed as given in **D-2** and **D-3**.

D-2 TEST CONDITION

The test shall be carried out with fluorescent UV-lamp Type B (313 nm or its equivalent).

The duration of the test shall be 192 h (that is, eight days) in continuous mode.

The test cycle shall be: 8 h at 60 ± 3 °C with UV-radiation alternating with 4 h at 50 ± 3 °C with condensation. Irradiance level throughout the test shall be maintained at 0.63 (+0.04/-0) W/m².

D-3 TEST PROCEDURE

D-3.1 Determine the original average breaking strength of fabric as per the test method specified in IS 1969 (Part 1).

D-3.2 Expose the specimens alternately to ultraviolet light and condensation in respective test cycle in continuous mode for total 192 h.

The type of fluorescent UV-lamp, the timing of the UV and condensation exposure and the temperature of

the UV exposure and condensation shall be as specified in **D-2**.

D-3.3 Determine the average breaking strength of the fabric separately after UV exposure as mentioned above.

D-3.4 Determine the percent retention of original strength as follows:

Retention of original breaking strength, percent =

$$\frac{b}{a} \times 100$$

where

a = average breaking strength before UV exposure as obtained in **D-3.1**, and

b = average breaking strength after UV exposure as obtained in **D-3.3**.

NOTES

1 The UV source is an array of fluorescent lamps (with lamp emission concentrated in the UV range).

2 Condensation is produced by exposing the test surface to a heated, saturated mixture of air and water vapors, while the reverse side of the test specimen is exposed to the cooling influence of ambient room air.

ANNEX E

(Table 1, Note 2)

METHOD FOR CALCULATION OF MASS OF SACK

E-1 Total mass of flat sacks with bottom stitch comprises of,

- Mass of fabric for sack ($M_{sp} + M_{bp}$)
- Mass of stitching thread (M_t)

E-2 Calculate the mass of sack with the help of the following formula as the case may be:

- Total mass of fabric for sack = ($M_{sp} + M_{bp}$)
 - Mass of four side panels (with margin for single fold stitching and top fold):

$$M_{sp} = [(2 \times (L + 20 + 20) \times (H + 30 + 20)) + [(2 \times (W + 20 + 20) \times (H + 30 + 20))] \times m \times 10^{-6}$$
 - Mass of bottom panel (with margin for single fold stitching):

$$M_{bp} = [(L + 20 + 20) \times (W + 20 + 20) \times m \times 10^{-6}$$

- Mass of stitching tape or thread:

$$M_t = (L_t \times T) \times 10^{-6}$$

where

M = total mass of sack, in g;

M_{sp} = mass of side panels, in g;

M_{bp} = mass of bottom panel, in g;

m = mass of fabric, in grams per square meter (g/m^2);

L = length of bottom panel, in mm;

W = width of bottom panel, in mm;

H = height of side panel, in mm;

f_t = top fold height, in mm;

M_t = mass of stitching thread, in g;

L_t = length of stitching thread in mm (for top fold stitch, bottom stitch and longitudinal stitch as applicable); and

T = linear density of stitching thread, in tex.

NOTES

1 Mass of sack shall be determined considering the sack is made of four separate side panels, bottom panel and an open top.

2 For side panels, stitching margin of 20 mm shall be considered along two longitudinal sides, whereas, stitching margin of 20 mm for bottom stitching and 30 mm margin for top fold with stitching.

3 For bottom panel, stitching margin of 20 mm shall be considered for all 4 sides for single fold stitching.

ANNEX F

(Foreword)

COMMITTEE COMPOSITION

Textile Materials Made from Polyolefins (Excluding Cordage) Sectional Committee, TXD 23

<i>Organization</i>	<i>Representative(s)</i>
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Cement Manufacturers Association, New Delhi	DR. S. K. SAXENA SHRI SAURABH PALSANIA (<i>Alternate I</i>) SHRI SHUBHO CHAKRAVARTY (<i>Alternate II</i>)
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Directorate of Sugar, New Delhi	SHRI G. S. SAHU SHRI SURESH CHANDRA (<i>Alternate</i>)
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Food Corporation of India, New Delhi	SHRI A. S. ARUNACHALAM SHRI A. K. U. B. SINGH (<i>Alternate</i>)
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GEM, New Delhi	REPRESENTATIVE
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Gujarat State Fertilizers & Chemicals Limited, Gujarat	SHRI DILIP KUMAR BHIKHABHAI SHAH SHRI PUJAN B. VAISHNAV (<i>Alternate</i>)
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IFFCO Limited, New Delhi	SHRI HARISH KUMAR SHRI OM PRAKASH KUMAR (<i>Alternate</i>)
Indian Institute of Packaging, Mumbai	DR TANWEER ALAM DR MADHAB CHAKRABORTY (<i>Alternate</i>)
Indian Oil Corporation Limited, New Delhi	SHRI DHANAJAY SAHOO SHRI RAJA PODDAR (<i>Alternate</i>)
Indian Sugar Mills Association, New Delhi	SHRI G. K. THAKUR SHRI PANKAJ RASTOGI (<i>Alternate</i>)

<i>Organization</i>	<i>Representative(s)</i>
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