
Procurement of Goods
Framework Agreement (FA)
National Open Competitive Procurement
(For Multi-user, Multi-supplier, Closed Panel FA set-up
through One Envelope Primary Procurement Bidding
Process)

Procuring Agency: Hon. Balasaheb Thackeray Agribusiness & Rural Transformation (SMART)
Project, Department of Agriculture, Government of Maharashtra, Sheti
Mahamandal Bhavan, 270, Bhamburda, Senapati Bapat Road, Pune – 411 016

Country: India

Name of Project: Hon. Balasaheb Thackeray Agribusiness & Rural Transformation (SMART)
Project,

Framework Agreement Title: Selection of agencies for Framework Agreement for supply
installation, testing & commissioning of Cleaning, Grading &
Sorting machinery at Farmer Producer Companies / Community
Based organization in various districts of in Maharashtra state
Under SMART Project

RFB Reference No.: *IN-PCMU-SMART-522022-GO-RFB*

E Tender ID : *2025_DOAWB_1236425_1*

Loan No. : P168310

16th Nov 2025

GOVERNMENT OF MAHARASHTRA
Hon. Balasaheb Thackeray Agribusiness & Rural Transformation (SMART) Project
REQUEST FOR BIDS (RFB)
NATIONAL COMPETITIVE PROCUREMENT
(For Multi-user, Multi-supplier, Closed Panel FA set-up through One Envelope Primary Procurement Bidding Process)

TIME SCHEDULE FOR THE BIDS

BID REFERENCE	DETAILS
AVAILABILITY OF TENDER DOCUMENTS	THE TENDER DOCUMENT IS AVAILABLE ON HTTPS://MAHATENDERS.GOV.IN FROM - 16.11.2025 TO 22.12.2025 UPTO 15.00HRS.
QUERIES ON BID	BIDDER SHALL HAVE TO EMAIL THEIR QUERIES TO ON PCMU.SMART@GMAIL.COM OR BEFORE 24/11/2025 UPTO 11.00 AM THE QUERIES WILL BE RESPONDED AND UPLOADED ON E-PROCUREMENT SITE WITHIN 07 WORKING DAYS. IN CASE OF NO REPLY THE DATES , TECHNICAL SPECIFICATION AND OTHER CONDITION OF RFB IS TO BE CONSIDERED AS SAME AS PUBLISHED.
BID SUBMISSION START DATE	16.11.2025
PRE BID MEETING DATE	24.11.2025 ON 11.00 HRS.
LAST DATE FOR DOWN LOADING OF BID DOCUMENT FROM THE E- PROCUREMENT PLATFORM: HTTPS://MAHATENDERS.GOV.IN	22.12.2025 UPTO 15.00HRS.
LAST DATE AND TIME FOR BID SUBMISSION /UPLOADING OF BID IN E-PROCUREMENT PLATFORM	22.12.2025 UPTO 15.00HRS.
TENDER FEE	NA
SUBMISSION OF ORIGINAL BID SECURITY	YES
TIME AND DATE OF OPENING OF TECHNICAL BIDS	THE BID WILL BE OPENED ONLINE BY THE AUTHORIZED OFFICERS ON 24.12.2025 ON 16.00 HRS.
PLACE FOR OPENING OF BIDS	SMART PROJECT, PUNE
PLACE FOR SUBMISSION OF ORIGINAL DOCUMENTS AND ADDRESS FOR COMMUNICATION	SHETI MAHAMANDAL BHAVAN, 270, BHAMBURDA, SENAPATI BAPAT ROAD, PUNE – 411 016

Summary of contents

Specific Procurement Notice

Specific Procurement Notice - Request for Bids (RFB)

The Specific Procurement Notice template, included in this bidding document, is the notice to be used for a Request for Bids (for Multi-user, Multi-supplier, Closed Panel FA set-up through One Envelope Primary Procurement Bidding Process).

Request for Bids – Goods (One-Envelope Bidding Process)

PART 1 BIDDING PROCEDURES

Section I Instructions to Bidders (ITB)

This Section provides information to help Bidders prepare their Bids. It is based on a one-envelope Bidding process. It contains details on the submission, opening, and evaluation of Bids received during the Primary Procurement process. It also provides an overview of the Secondary Procurement process for the award of a Call-off Contract(s) once the Framework Agreement(s) is established. This is more fully described in the Framework Agreement. **Section I is to be used without modification.**

Section II Bid Data Sheet (BDS)

This Section includes provisions that are specific to each Primary Procurement process and that supplement Section I, Instructions to Bidders.

Section III Evaluation and Qualification Criteria

This Section specifies the award criteria and methodology to determine which Bidder(s) will be awarded a Framework Agreement(s). The Procuring Agency shall **specify in the BDS** that the Framework Agreement will be a Multi-Supplier, and Single/Multi-User Framework Agreement.

Section IV Bidding Forms

This Section includes the forms for the Bid submission, Letter of Bid, Price Schedules, Bid Security, if applicable, and the Manufacturer's Authorization to be completed and submitted by the Bidder as part of its Bid to be awarded a Framework Agreement.

Section V Eligible Countries

This Section contains information regarding eligible countries.

Section VI Fraud and Corruption

This section includes the fraud and corruption provisions which apply to this Bidding process.

PART 2 SUPPLY REQUIREMENTS

Section VII Schedule of Requirements

This Section includes the List of Goods and Related Services, an estimate of the volume/quantity, Delivery and Completion Schedules, and the Technical Specifications and Drawings that describe the Goods and Related Services to be procured.

PART 3 PROCURING AGENCY'S FORMS

Section VIII Procuring Agency's Forms

This Section includes forms that the Procuring Agency may use in relation to this procurement process, in particular the form for Notification of Award/Letter of Acceptance.

PART 4 FRAMEWORK AGREEMENT FOR GOODS

This Part sets out the provisions of the Framework Agreement that will apply to successful Bids. It includes:

Section A: Framework Agreement Specific Provisions

Section B: Framework Agreement Standard Provisions

Section C: Framework Agreement Definitions

Schedule 1: Schedule of Requirements

Schedule 2: Price Schedules

Schedule 3: Secondary Procurement

Schedule 4: Call-off Contract: General Conditions of Contract (GCC)

Schedule 5: Forms for Call-off Contract

Schedule 6: List of Participating Users [*use for Multi-User FAs only*]

GOVERNMENT OF MAHARASHTRA

Hon. Balasaheb Thackeray Agribusiness & Rural Transformation (SMART) Project

Request for Bids
to establish Framework Agreement(s) for Supply,
Installation, Commissioning & testing of Cleaning
Grading & Sorting Machinery
(Primary Procurement, One-Envelope Bidding Process)

Framework Agreement Title: Selection of agencies for Framework Agreement for supply installation, testing & commissioning of Cleaning, Grading & Sorting machinery at Farmer Producer Companies / Community Based organization in various districts of in Maharashtra state Under SMART Project

Loan No./Credit No.: P168310

RFB Reference No.: *IN-PCMU-SMART-522022-GO-RFB*

1. The Department of Agriculture, Government of Maharashtra has received financing from the World Bank toward the cost of the “Hon. Balasaheb Thackeray Agribusiness & Rural Transformation (SMART) Project”, and intends to apply part of the proceeds toward payments under Call-off Contracts that may be awarded under the Framework agreements for supply installation, testing & commissioning of Cleaning, Grading & Sorting machinery at Farmer Producer Companies / Community Based organization in various districts of Maharashtra state Under SMART Project ¹ concluded through this RFB Primary Procurement process.
2. The *Project Coordination & Management Unit (PCMU) SMART Project* now invites online Bids from eligible Bidders for supply installation, testing & commissioning of Cleaning, Grading & Sorting machinery at Farmer Producer Companies / Community Based organization in various districts of Maharashtra state Under SMART Project. The list of Farmer Producer Companies is enclosed herewith.
3. This is a Multi-User and Multi-Supplier Framework Agreement. For Multi-User Framework Agreements, list of the Participating Users entitled to purchase under this Framework Agreement is provided in the Bid Data Sheet.
4. On being awarded a Framework Agreement the successful Bidder (FA Holder) is eligible to be awarded a Call-off Contract. The selection of a FA Holder to receive a Call-off Contract will be done through a Secondary Procurement process as defined in Framework Agreement. However, the award of a Framework Agreement shall not

¹ *The Primary Procurement to conclude a Framework Agreement(s) and the Secondary Procurement to award a Call-off Contract(s) will be governed by the World Bank’s Procurement Regulations.”*

impose any obligation on the Procuring Agency, including Participating Users, to purchase Goods under a Call-off Contract. An award of Framework Agreement does not guarantee that a FA Holder will be awarded a Call-off Contract.

5. Bidding will be conducted through National Competitive Procurement using a Request for Bids (RFB) as specified in the World Bank's "Regulations for IPF Borrowers" Revised in September 2025. ("Procurement Regulations") which can be found at the following website: www.worldbank.org.
6. Under this Primary Procurement process, Bidders may submit Bids for one or more items/ lots. However, evaluation and award of Framework Agreements will be done individually for each item/lot.
7. The Framework Agreement shall be established for a Term of one year from the Commencement Date, and may be extended subject to satisfactory performance, for a maximum of up to two (2) additional years on yearly basis.
8. The Primary Procurement shall establish a Closed Framework Agreement(s).
9. Interested eligible Bidders may obtain further information from *Project Coordination & Management Unit (PCMU) SMART Project* Mr Uday Deshmukh, Additional Project Director, -Email-pcmu.smart@gmail.com and inspect the Bidding document during office hours *i.e. 09.45 to 18.00 hours* at the address as provided *at the end of this IFB*.
10. The Bidding document in English may be downloaded from website <https://mahatenders.gov.in> by interested eligible Bidders as per the schedule mentioned in this bid document.
11. All Bids must be accompanied by a bid security as specified in the bid document.
12. A pre-bid meeting will be held on 24/11/2025 at 11.00 hours at the office of SMART PROJECT, Sheti Mahamandal Bhavan, 270, Bhamburda, Senapati Bapat Road, Pune to clarify the issues and to answer questions on any matter that may be raised at that stage as stated in Clause 7.2 of the Instructions to Bidders.
14. The address(es) referred to above is (are):

M.J.Pradip Chandren IAS

Project Director,

Hon. Balasaheb Thackeray Agribusiness Rural Transformation Project,

MSFC Building, 270, Bhamburda, Senapati Bapat Road, Pune 411016

Telephone: 91-20-25656577

Email id: pcmu.smart@gmail.com

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PART 1 – Bidding Procedures

Section I - Instructions to Bidders (ITB)

Section I. Instructions to Bidders

A. General

1. Scope of Bid

- 1.1 In connection with the Specific Procurement Notice, Request for Bids (RFB), specified **in the Bid Data Sheet (BDS)**, the Procuring Agency, as specified **in the BDS**, issues this Request for Bids (RFB) document as part of the Primary Procurement process to establish Framework Agreement(s) for the supply of Goods, and, if applicable, any Related Services, to be awarded under a Secondary Procurement process for Call-off Contract, as specified in Part 4 of this RFB. The name and identification of this RFB are specified **in the BDS**.
- 1.2 Throughout this Bidding document:
 - (a) **“in writing”** means communicated in written form (e.g. by mail, e-mail, fax, including if specified **in the BDS**, distributed or received through the electronic-procurement system used by the Procuring Agency) with proof of receipt;
 - (b) if the context so requires, **“singular”** means **“plural”** and vice versa;
 - (c) **“Day”** means calendar day, unless otherwise specified as **“Business Day”**. A Business Day is any day that is an official working day of the Borrower. It excludes the Borrower’s official public holidays;
 - (d) **“Addenda”** means a modification, amendment or variation to the Bidding documents made by the Procuring Agency;
 - (e) **“Call-off Contract”** A contract awarded under a Framework Agreement through a Secondary Procurement process, and entered into between the Procuring Agency/Purchaser and a FA Holder/Supplier, for the supply of Goods, which may include Related Services;
 - (f) **“Closed Panel”** Panel means the group of FA Holders/Suppliers that have been awarded Framework Agreements. A Closed Panel means that no new supplier(s) (i.e. a supplier that did not

participate in the Primary Procurement process that established the Framework Agreement) may be added to the Panel during the Term of the Framework Agreement;

- (g) “**Country**” means the Procuring Agency’s and Purchaser’s country;
- (h) “**Framework Agreement (FA)**” is the document set out in Part 4 of this RFB, and means the arrangement signed between the Procuring Agency (in its capacity as a potential Purchaser) and a successful Bidder (a FA Holder in its capacity as a potential Supplier);
- (i) “**FA Holder**” means a successful Bidder that has been awarded a Framework Agreement through the Primary Procurement process;
- (j) “**Goods**” means all goods, materials or items that the Supplier is required to supply to a Purchaser under a Call-off Contract placed under a Framework Agreement. Details of such Goods are set out in Part 2, Supply Requirements, and the Framework Agreement and particularly described in a Call-off Contract. Where appropriate, for the purpose of interpretation, the definition for Goods includes Related Services.
- (k) “**Multi-User Framework Agreement**” means a Framework Agreement where there is more than one Purchaser permitted to purchase through a Call-off Contract;
- (l) “**Multi-Supplier Framework Agreement**” means a Framework Agreement where there is more than one Supplier that has been appointed to the Framework Agreement Panel.
- (m) “**Participating Users**” covers the situation where there is more than one Purchaser. In which case all Participating Users are listed **in the BDS** and Framework Agreement;
- (n) “**Primary Procurement**” means the procurement process followed by the Procuring Agency to establish the Framework Agreement(s) and appoint FA Holders;
- (o) “**Procuring Agency**” means the agency that manages the Primary Procurement process and establishes the

FAs. The Procuring Agency may also be a party to the Framework Agreement (in its capacity as the Purchaser).

- (p) “**Purchaser/User**”, as **specified in the BDS**, means an agency that is permitted to purchase Goods from a FA Holder/Supplier by awarding a Call-off Contract under the Framework Agreement. The term ‘Purchaser/User’ includes all Participating Users (and Procuring Agency, if it is also a User), as listed in Schedule 6 to this Framework Agreement;
- (q) “**Related Services**” means the services incidental to the supply of the Goods, such as insurance, installation, training and initial maintenance and other such obligations of the Supplier set out in Part 2, Supply Requirements, and the Framework Agreement and particularly described in a Call-off Contract.
- (r) “**Secondary Procurement**” means the process followed by a Purchaser to select a FA Holder/Supplier, and award a Call-off Contract for the supply of Goods;
- (s) “**Single-User**” means a Framework Agreement where there is only one Purchaser;
- (t) “**Supplier**” means a FA Holder that has been awarded a Call-off Contract through the Secondary Procurement process;
- (u) “**Term**” mean the duration of a Framework Agreement starting on the Commencement Date. Where applicable, it includes any extension(s) to the initial Term, if permitted in the Framework Agreement and granted by the Procuring Agency.

2. Source of Funds

- 2.1 The Borrower or Recipient (hereinafter called “Borrower”) specified **in the BDS** has applied for, or received financing (hereinafter called “funds”) from the International Bank for Reconstruction and Development or the International Development Association (hereinafter called “the Bank”) in an amount specified **in the BDS**, toward the project named **in the BDS**. The Borrower intends to apply a portion of the funds to eligible payments under Call-off Contracts to be awarded under the Framework Agreement(s) for which this Bidding document is issued.
- 2.2 Payment by the Bank will be made only at the request of the Borrower and upon approval by the Bank in accordance

with the terms and conditions of the Loan (or other financing) Agreement. The Loan (or other financing) Agreement prohibits a withdrawal from the Loan account for the purpose of any payment to persons or entities, or for any import of Goods, if such payment or import is prohibited by decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations. No party other than the Borrower shall derive any rights from the Loan (or other financing) Agreement or have any claim to the proceeds of the Loan (or other financing).

3. Fraud and Corruption

- 3.1 The Bank requires compliance with the Bank's Anti-Corruption Guidelines and its prevailing sanctions policies and procedures as set forth in the WBG's Sanctions Framework, as set forth in Section VI.
- 3.2 In further pursuance of this policy, Bidders shall permit and shall cause their agents (whether declared or not), subcontractors, sub-consultants, service providers, suppliers, and their personnel, to permit the Bank to inspect all accounts, records and other documents relating to any initial selection process, prequalification process, Bid submission, Proposal submission, Primary Procurement process, award of Framework Agreement, Secondary Procurement process, and/or Call-off Contract performance (in the case of award of a Call-off Contract), and to have them audited by auditors appointed by the Bank.

4. Eligible Bidders

- 4.1 A Bidder may be a firm that is a private entity, a state-owned enterprise or institution subject to ITB 4.6. Joint ventures are not permitted to bid.
- 4.2 A Bidder shall not have a conflict of interest. Any Bidder found to have a conflict of interest shall be disqualified. A Bidder may be considered to have a conflict of interest for the purpose of this Bidding process, if the Bidder:
 - (a) directly or indirectly controls, is controlled by or is under common control with another Bidder; or
 - (b) receives or has received any direct or indirect subsidy from another Bidder; or
 - (c) has the same legal representative as another Bidder; or
 - (d) has a relationship with another Bidder, directly or through common third parties, that puts it in a position

- to influence the Bid of another Bidder, or influence the decisions of the Procuring Agency regarding this Primary Procurement process; or
- (e) any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the Goods, or Related Services, that are the subject of the Bid; or
 - (f) any of its affiliates has been hired (or is proposed to be hired) by the Procuring Agency or Purchaser or Borrower in implementing the Framework Agreement or a Call-off Contract; or
 - (g) would be providing Goods, works, or non-consulting services resulting from, or directly related to consulting services for the preparation or implementation of the project specified in the BDS ITB 2.1 that it provided or were provided by any affiliate that directly or indirectly controls, is controlled by, or is under common control with that firm; or
 - (h) has a close business or family relationship with a professional staff of the Borrower (or of the project implementing agency, or of a recipient of a part of the loan) who: (i) are directly or indirectly involved in the preparation of the Bidding document or specifications of the Framework Agreement or Call-off Contract, and/or the Bid evaluation process of such Framework Agreement or Call-off Contract; or (ii) would be involved in the implementation or supervision of such Framework Agreement or Call-off Contract unless the conflict stemming from such relationship has been resolved in a manner acceptable to the Bank throughout the Bidding process and execution of the Framework Agreement and/or Call-off Contract.
- 4.3 A firm that is a Bidder shall not participate in more than one Bid. This includes participation as a subcontractor. Such participation shall result in the disqualification of all Bids in which the firm is involved. A firm that is not a Bidder, may participate as a subcontractor in more than one Bid.
- 4.4 A Bidder may have the nationality of any country, subject to the restrictions pursuant to ITB 4.7. A Bidder shall be deemed to have the nationality of a country if the Bidder is constituted, incorporated or registered in, and operates in

conformity with, the provisions of the laws of that country, as evidenced by its articles of incorporation (or equivalent documents of constitution or association) and its registration documents, as the case may be. This criterion also shall apply to the determination of the nationality of proposed subcontractors or sub-consultants for any part of a Call-off Contract including Related Services.

- 4.5 A Bidder that has been sanctioned by the Bank, pursuant to the Bank’s Anti-Corruption Guidelines, in accordance with its prevailing sanctions policies and procedures as set forth in the WBG’s Sanctions Framework as described in Section VI paragraph 2.2 d., shall be ineligible to be prequalified for, initially selected for, Bid for, propose for, or be awarded a Bank-financed Framework Agreement or Call-off Contract or benefit from a Bank-financed Framework Agreement or Call-off Contract, financially or otherwise, during such period of time as the Bank shall have determined. The list of debarred firms and individuals is available at the electronic address specified **in the BDS**.
- 4.6 Bidders that are state-owned enterprises or institutions in the Procuring Agency’s Country may be eligible to compete and be awarded a Framework Agreement or Call-off Contract(s) only if they can establish, in a manner acceptable to the Bank, that they:
- (a) are legally and financially autonomous,
 - (b) operate under commercial law, and
 - (c) are not under supervision of the Procuring Agency or a Participating User.
- 4.7 Firms and individuals may be ineligible if so indicated in Section V and:
- (a) as a matter of law or official regulations, the Borrower’s country prohibits commercial relations with that country, provided that the Bank is satisfied that such exclusion does not preclude effective competition for the supply of Goods or the contracting of works or services required; or
 - (b) by an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, the Borrower’s country prohibits any import of Goods or contracting of works or services from that country, or any payments to any

country, person, or entity in that country.

- 4.8 A Bidder shall provide such documentary evidence of eligibility satisfactory to the Procuring Agency, as the Procuring Agency shall reasonably request.
- 5. Eligible Goods and Related Services**
- 5.1 All the Goods and Related Services to be supplied under a Call-off Contract awarded under a Framework Agreement and financed by the Bank, may have their origin in any country in accordance with Section V, Eligible Countries.
- 5.2 For purposes of this ITB, the term “Goods” includes commodities, raw materials, machinery, equipment, and industrial plants; and “Related Services” includes services such as insurance, installation, training, and initial maintenance.
- 5.3 The term “origin” means the country where the Goods have been mined, grown, cultivated, produced, manufactured or processed; or, through manufacture, processing, or assembly, another commercially recognized article results that differs substantially in its basic characteristics from its components.

B. Contents of Request for Bids Document

- 6. Sections of Bidding Document**
- 6.1 The Bidding document consists of Parts 1, 2, 3, and 4, which include all sections, schedules, annexes, and should be read in conjunction with any Addenda issued in accordance with ITB 8.

PART 1 - Bidding Procedures

Section I - Instructions to Bidders (ITB)

Section II - Bidding Data Sheet (BDS)

Section III - Evaluation and Qualification Criteria

Section IV - Bidding Forms

Section V - Eligible Countries

Section VI - Fraud and Corruption

PART 2 - Supply Requirements

Section VII - Schedule of Requirements

PART 3 - Procuring Agency’s Forms

PART 4 - Framework Agreement (FA)

Section A: Framework Agreement Specific Provisions

Section B: Framework Agreement Standard Provisions

Section C: Framework Agreement Definitions

Schedule 1: Schedule of Requirements

Schedule 2: Price Schedules

Schedule 3: Secondary Procurement

Schedule 4: Call-off Contract: General Conditions of Contract (GCC)

Schedule 5: Forms for Call-off Contract

Schedule 6: List of Participating Users [*for Multi-User FAs only*]

- 6.2 The Specific Procurement Notice, Request for Bids (RFB), issued by the Procuring Agency is not part of this Bidding document.
- 6.3 Unless obtained directly from the Procuring Agency, the Procuring Agency is not responsible for the completeness of the document, responses to requests for clarification, the Minutes of the pre-Bid meeting (if any), or Addenda to the Bidding document in accordance with ITB 8. In case of any contradiction, documents obtained directly from the Procuring Agency shall prevail.
- 6.4 The Bidder is expected to examine all instructions, forms, terms, and specifications in the Bidding document and to furnish with its Bid all information or documentation as is required by the Bidding document.

7. Clarification of Bidding Document

- 7.1 A Bidder requiring any clarification of the Bidding document shall contact the Procuring Agency in writing at the Procuring Agency's address specified **in the BDS**. The Procuring Agency will respond in writing to any request for clarification, provided that such request is received prior to the deadline for submission of Bids within a period specified **in the BDS**. The Procuring Agency shall forward copies of its response to all Bidders who have acquired the Bidding document in accordance with ITB 6.3, including a description of the inquiry but without identifying its source. If so specified **in the BDS**, the Procuring Agency shall also promptly publish its response at the web page identified **in the BDS**. Should the clarification result in changes to the essential elements of the Bidding document, the Procuring Agency shall amend the Bidding document

following the procedure under ITB 8 and ITB 22.2.

- 7.2 If so **specified in the BDS**, the Bidder’s designated representative is invited to attend a pre-bid meeting. The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.

8. Amendment of Bidding Document

- 8.1 At any time prior to the deadline for submission of Bids, the Procuring Agency may amend the Bidding document by issuing an Addenda.
- 8.2 Any Addendum issued shall be part of the Bidding document and shall be communicated in writing to all who have obtained the Bidding document from the Procuring Agency in accordance with ITB 6.3. The Procuring Agency shall also promptly publish the Addendum on the Procuring Agency’s web page in accordance with ITB 7.1.
- 8.3 To give prospective Bidders reasonable time in which to take an Addendum into account in preparing their Bids, the Procuring Agency may, at its discretion, extend the deadline for the submission of Bids, pursuant to ITB 22.2.

C. Preparation of Bids

9. Cost of Bidding

- 9.1 The Bidder shall bear all costs associated with the preparation and submission of its Bid, in relation to this Primary Procurement process, (and if successful any Secondary Procurement process where mini-competition is used) and the Procuring Agency shall not be responsible or liable for those costs, regardless of the conduct or outcome of the Bidding process.

10. Language of Bid

- 10.1 The Bid, as well as all correspondence and documents relating to the Bid exchanged by the Bidder and the Procuring Agency, shall be written in English. Supporting documents and printed literature that are part of the Bid may be in another language provided they are accompanied by an accurate translation of the relevant passages into English, in which case, for purposes of interpretation of the Bid, such translation shall govern.

11. Documents Comprising the Bid

- 11.1 The Bid shall comprise the following:
- (a) **Letter of Bid** prepared in accordance with ITB 12;
 - (b) **Price Schedules**: completed in accordance with ITB 12 and ITB 14;

- (c) **Bid-Security** in accordance with ITB 19.1;
 - (d) **Alternative Bid**: deleted;
 - (e) **Authorization**: written confirmation authorizing the signatory of the Bid to commit the Bidder, in accordance with ITB 20.3;
 - (f) **Qualifications**: documentary evidence in accordance with ITB 17 establishing the Bidder’s qualifications to be awarded a Framework Agreement and perform any Call-off Contract if awarded;
 - (g) **Bidder’s Eligibility**: documentary evidence in accordance with ITB 17 establishing the Bidder’s eligibility to Bid;
 - (h) **Eligibility of Goods and Related Services**: documentary evidence in accordance with ITB 16, establishing the eligibility of the Goods and Related Services to be supplied by the Bidder;
 - (i) **Conformity**: documentary evidence in accordance with ITB 16 and 30, that the Goods and Related Services conform to the Bidding document; and
 - (j) any other document required **in the BDS**.
- 11.2 The Bidder shall furnish in the Letter of Bid information on commissions and gratuities, if any, paid or to be paid to agents or any other party relating to this Bid.
- 12. Letter of Bid and Price Schedules**
- 12.1. The Letter of Bid and Price Schedules shall be prepared using the relevant forms furnished in Section IV, Bidding Forms. The forms must be completed without any alterations to the text, and no substitutes shall be accepted except as provided under ITB 20.3. All blank spaces shall be filled in with the information requested.
- 13. Alternative Bids**
- 13.1. Deleted.
- 14. Bid Prices and Discounts**
- 14.1 The prices and unconditional discounts quoted by the Bidder in the Letter of Bid and in the Price Schedules shall conform to the requirements specified below.
- 14.2 If specified in the BDS that Goods may be purchased in lots and items, all lots and items must be listed and priced separately in the Price Schedules.
- 14.3 The price to be quoted in the Letter of Bid in accordance with ITB 12.1 shall be the total price for the, lots or items

excluding any discounts offered.

- 14.4 The Bidder may quote discounts for bulk purchases (one-off bulk purchases that may be awarded in a Call-off Contract). Discounts may be quoted on a sliding scale (where the greater the bulk purchased the greater the discount). In quoting discounts, the Bidder shall indicate the methodology for their application in the Letter of Bid, in accordance with ITB 12.1.
- 14.5 Prices quoted by the Bidder shall be fixed for the duration of the Framework Agreement, and any agreed extension, and not subject to variation on any account, unless otherwise specified **in the BDS**. If in accordance with the BDS, prices quoted by the Bidder shall be fixed, a Bid submitted with an adjustable price quotation shall be treated as nonresponsive and shall be rejected, pursuant to ITB 29. However, if price adjustment is specified in the BDS, a Bid submitted with a fixed price quotation shall not be rejected, but the price adjustment shall be treated as zero.
- 14.6 If so specified in ITB 1.1, Bids are being invited for individual lots or for any combination of lots (packages). Unless otherwise specified **in the BDS**, prices quoted shall correspond to 100 % of the items specified for each lot and to 100% of the quantities specified for each item of a lot.
- 14.7 The terms EXW and other similar terms shall be governed by the rules prescribed in the current edition of Incoterms, published by the International Chamber of Commerce, as specified **in the BDS**.
- 14.8 Prices shall be quoted as specified in each Price Schedule included in Section IV, Bidding Forms. The disaggregation of price components is required solely for the purpose of facilitating the comparison of Bids by the Procuring Agency. This shall not in any way limit the Purchaser's right to award a Framework Agreement on any of the terms offered. In quoting prices, the Bidder shall be free to use transportation through carriers registered in any eligible country, in accordance with Section V, Eligible Countries. Similarly, the Bidder may obtain insurance services from any eligible country in accordance with Section V, Eligible Countries. Prices shall be entered in the following manner:
 - (a) **For Goods:**
 - (i) the price of the Goods quoted EXW (ex-works,

ex-factory, ex warehouse, ex showroom, or off-the-shelf, as applicable), including all duties (customs duty etc.) and Goods and Services Tax (GST) and other taxes already paid or payable on the components and raw material used in the manufacture or assembly of the Goods;

(ii) any GST, and other taxes which will be payable on the Goods (if a Call-off Contract is awarded to the Bidder as a FA Holder); and

(iii) the price for inland transportation, insurance, and other local services required to convey the Goods to their final destination (Project Site) (if a Call-off Contract is awarded to the Bidder as a FA Holder) specified **in the BDS**.

(b) **for Related Services**, other than inland transportation and other services required to convey the Goods to their final destination, whenever such Related Services are specified in the Schedule of Requirements, the price of each item comprising the Related Services (inclusive of any applicable taxes).

15. Currencies of Bid and Payment

15.1 The Bidder shall quote the Price in Indian Rupees only and all payments shall be made in Indian Rupees only.

16. Documents Establishing the Eligibility and Conformity of Goods

16.1 To establish the eligibility of the Goods and Related Services in accordance with ITB 5, Bidders shall complete the country of origin declarations in the Price Schedule Forms, included in Section IV, Bidding Forms.

16.2 To establish the conformity of the Goods and Related Services to the Bidding document, the Bidder shall furnish as part of its Bid the documentary evidence that the Goods conform to the technical specifications and standards specified in Section VII, Schedule of Requirements.

16.3 The documentary evidence may be in the form of literature, drawings or data, and shall consist of a detailed item by item description of the essential technical and performance characteristics of the Goods and Related Services, demonstrating substantial responsiveness of the Goods and Related Services to the technical specification, and if applicable, a statement of deviations and exceptions to the provisions of the Section VII, Schedule of Requirements.

16.4 The Bidder shall also furnish a list giving full particulars, including available sources and current prices of spare

parts, special tools, etc., necessary for the proper and continuing functioning of the Goods during the period specified **in the BDS** following acceptance of the Goods by the Purchaser (if a Call-off Contract is awarded to the Bidder as a FA Holder).

16.5 Standards for workmanship, process, material, and equipment, as well as references to brand names or catalogue numbers specified by the Procuring Agency in the Schedule of Requirements, are intended to be descriptive only and not restrictive. The Bidder may offer other standards of quality, brand names, and/or catalogue numbers, provided that it demonstrates, to the Procuring Agency's satisfaction, that the substitutions ensure substantial equivalence or are superior to those specified in the Section VII, Schedule of Requirements.

17. Documents Establishing the Eligibility and Qualifications of the Bidder

17.1 To establish Bidder's eligibility in accordance with ITB 4, Bidders shall complete the Letter of Bid, included in Section IV, Bidding Forms.

17.2 The documentary evidence of the Bidder's qualifications to be awarded a Framework Agreement, and/or to perform any Call-off Contract(s) if awarded, shall establish to the Procuring Agency's satisfaction:

- (a) that, if required **in the BDS**, a Bidder that does not manufacture or produce the Goods it offers to supply shall submit the Manufacturer's Authorization using the form included in Section IV, Bidding Forms to demonstrate that it has been duly authorized by the manufacturer or producer of the Goods to supply these Goods in the Procuring Agency's Country;
- (b) that, if required **in the BDS**, the Bidder (if awarded a Framework Agreement) will carry out the Supplier's maintenance, repair and spare parts-stocking obligations prescribed in Part 2 Supply Requirements any Call-off Contract awarded; and
- (c) that the Bidder meets each of the qualification criterion specified in Section III, Evaluation and Qualification Criteria.
- (d) supplies for any particular item in each lot of the bid should be from one manufacturer only. Bids from agents offering supplies from different manufacturers for the same item of the lot in the bid will be treated

as non-responsive.

18. Period of Validity of Bids

- 18.1. Bids shall remain valid for the Bid Validity period specified **in the BDS**. The Bid Validity period starts from the date fixed for the Bid submission deadline (as prescribed by the Procuring Agency in accordance with ITB 22.1). A Bid valid for a shorter period shall be rejected by the Procuring Agency as nonresponsive.
- 18.2. In exceptional circumstances, prior to the expiration of the Bid validity period, the Procuring Agency may request Bidders to extend the period of validity of their Bids. The request and the responses shall be made in writing. If a Bid Security is specified in the BDS, it shall also be extended for a corresponding period. A Bidder may refuse the request to extend without forfeiting its Bid Security. A Bidder granting the request shall not be required or permitted to modify its Bid, except as provided in ITB 18.3.
- 18.3. If the award of a Framework Agreement is delayed by a period exceeding fifty-six (56) days beyond the expiry of the initial Bid validity period, the base price for FA shall be determined as follows:
- (a) in the case of fixed price FAs, the base price shall be the Bid price adjusted by the factor specified **in the BDS**;
 - (b) in the case of adjustable price FAs, no adjustment shall be made;
 - (c) in any case, Bid evaluation shall be based on the Bid price without taking into consideration the applicable correction from those indicated above.

19. Bid Security

- 19.1. The Bidder shall furnish as part of its Bid, a Bid-Security, as specified **in the BDS**, in original form, in the amount specified **in the BDS**.
- 19.2. If a Bid Security is specified pursuant to ITB 19.1, the Bid Security shall be a demand guarantee in any of the following forms at the Bidder's option:
- (a) an unconditional bank guarantee issued by a Nationalized/ Scheduled bank located in India;
 - (b) an irrevocable letter of credit issued by a Nationalized

or Scheduled bank located in India;

- (c) a cashier's or certified check or demand draft issued by a Nationalized or Scheduled bank located in India; or
- (d) another security specified **in the BDS**,

In the case of a bank guarantee, the Bid Security shall be submitted using the Bid Security Form included in Section IV, Bidding Forms. The Bid Security shall be valid for forty five (45) days beyond the original validity period of the Bid, or beyond any period of extension if requested under ITB 18.2.

- 19.3. If a Bid Security is specified pursuant to ITB 19.1, any Bid not accompanied by a Bid Security in accordance with ITB 19.2 shall be rejected by the Purchaser as non-responsive.
- 19.4. If a Bid Security is specified pursuant to ITB 19.1, the Bid Securities of unsuccessful Bidders shall be returned as promptly as possible upon the successful Bidder's signing the Framework Agreement and furnishing the Performance Security pursuant to ITB 41.
- 19.5. The Bid Security of successful Bidder(s) shall be returned, as promptly as possible, once the successful Bidder(s) sign the Framework Agreement(s), and furnish the required Performance Security.
- 19.6. The Bid Security may be forfeited:
 - (a) if a Bidder withdraws its Bid during the period of Bid validity specified by the Bidder in the Letter of Bid, or any extension thereto provided by the Bidder; or
 - (b) if the Bidder does not accept the correction of its Bid Price pursuant to ITB 31; or
 - (c) if the successful Bidder fails to:
 - (i) sign the Framework Agreement in accordance with ITB 40; or
 - (ii) furnish a Performance Security in accordance with ITB 41.

20. Format and Signing of Bid

- 20.1 The Bidder shall prepare one original of the documents comprising the Bid as described in ITB 11 and clearly mark it "ORIGINAL." In addition, the Bidder shall submit copies of the Bid, in the number specified **in the BDS** and clearly mark

them “COPY.” In the event of any discrepancy between the original and the copies, the original shall prevail.

- 20.2 Bidders shall mark as “CONFIDENTIAL” information in their Bids which is confidential to their business.
- 20.3 The original and all copies of the Bid shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the Bidder. This authorization shall consist of a written confirmation as specified **in the BDS** and shall be attached to the Bid. The name and position held by each person signing the authorization must be typed or printed below the signature. All pages of the Bid where entries or amendments have been made shall be signed or initialed by the person signing the Bid.
- 20.4 Any inter-lineation, erasures, or overwriting shall be valid only if they are signed or initialed by the person signing the Bid.

D. Submission and Opening of Bids

21. Sealing and Marking of Bids

- 21.1. The Bidder shall deliver the Bid in a single, sealed envelope (one-envelope Bidding process). Within the single envelope the Bidder shall place the following separate, sealed envelopes:
 - (a) in an envelope marked “ORIGINAL”, all documents comprising the Bid, as described in ITB 11; and
 - (b) in an envelope marked “Copies”, all required copies of the Bid; and,
- 21.2. The inner and outer envelopes, shall:
 - (a) bear the name and address of the Bidder;
 - (b) be addressed to the Procuring Agency in accordance with ITB 22.1;
 - (c) bear the specific identification of this Bidding process indicated in ITB 1.1; and
 - (d) bear a warning not to open before the time and date for Bid opening.
- 21.3. If all envelopes are not sealed and marked as required, the Procuring Agency will assume no responsibility for the misplacement or premature opening of the Bid.

22. Deadline for Submission of Bids

22.1. Bids must be received by the Procuring Agency at the address and no later than the date and time specified **in the BDS**. In the event of the specified date for the submission of Bids being declared a holiday for the Purchaser, the Bids will be received up to the appointed time on the next working day.

22.2. The Procuring Agency may, at its discretion, extend the deadline for the submission of Bids by amending the Bidding document in accordance with ITB 8, in which case all rights and obligations of the Procuring Agency and Bidders previously subject to the deadline shall thereafter be subject to the deadline as extended.

23. Late Bids

23.1 The Procuring Agency shall not consider any Bid that arrives after the deadline for submission of Bids, in accordance with ITB 22. Any Bid received by the Procuring Agency after the deadline for submission of Bids shall be declared late, rejected, and returned unopened to the Bidder.

24. Withdrawal, Substitution, and Modification of Bids

24.1. A Bidder may withdraw, substitute, or modify its Bid after it has been submitted by sending a written notice, duly signed by an authorized representative, and shall include a copy of the authorization (the power of attorney) in accordance with ITB 20.3, (except that withdrawal notices do not require copies). The corresponding substitution or modification of the Bid must accompany the respective written notice. All notices must be:

(a) prepared and submitted in accordance with ITB 20 and 21 (except that withdrawal notices do not require copies), and in addition, the respective envelopes shall be clearly marked “WITHDRAWAL,” “SUBSTITUTION,” or “MODIFICATION;” and

(b) received by the Procuring Agency prior to the deadline prescribed for submission of Bids, in accordance with ITB 22.

24.2. Bids requested to be withdrawn in accordance with ITB 24.1 shall be returned unopened to the Bidders.

24.3. No Bid may be withdrawn, substituted, or modified in the interval between the deadline for submission of Bids and the expiration of the period of Bid validity specified by the Bidder on the Letter of Bid or any extension thereof. This will result in the forfeiture of the Bid Security pursuant to ITB 19.6.

25. Bid Opening

- 25.1. Except as in the cases specified in ITB 23 and ITB 24.2, the Procuring Agency shall, at the Bid opening, publicly open and read out all Bids received by the deadline at the date, time and place specified **in the BDS** in the presence of Bidders' designated representatives and anyone who chooses to attend. In the event of the specified date of bid opening being declared a holiday for the Purchaser, the bids will be opened at the appointed time and location on the next working day. Any specific electronic Bid opening procedures required if electronic Bidding is permitted in accordance with ITB 22.1, shall be as specified in the BDS.
- 25.2. First, envelopes marked "WITHDRAWAL" shall be opened and read out and the envelope with the corresponding Bid shall not be opened, but returned to the Bidder. If the withdrawal envelope does not contain a copy of the "power of attorney" confirming the signature as a person duly authorized to sign on behalf of the Bidder, the corresponding Bid will be opened. No Bid withdrawal shall be permitted unless the corresponding withdrawal notice contains a valid authorization to request the withdrawal and is read out at Bid opening.
- 25.3. Next, envelopes marked "SUBSTITUTION" shall be opened and read out and exchanged with the corresponding Bid being substituted, and the substituted Bid shall not be opened, but returned to the Bidder. No Bid substitution shall be permitted unless the corresponding substitution notice contains a valid authorization to request the substitution and is read out at Bid opening.
- 25.4. Next, envelopes marked "MODIFICATION" shall be opened and read out with the corresponding Bid. No Bid modification shall be permitted unless the corresponding modification notice contains a valid authorization to request the modification and is read out at Bid opening.
- 25.5. Next, all remaining envelopes shall be opened one at a time, reading out: the name of the Bidder and whether there is a modification; the total Bid Prices, per lot if applicable, including any unconditional discounts; the presence or absence of a Bid Security, if required; and any other details as the Procuring Agency may consider appropriate.
- 25.6. Only Bids, modifications and discounts that are opened and read out at Bid opening shall be considered further in the evaluation. The Letter of Bid and the Price Schedules are to be initialed by representatives of the Procuring Agency

attending Bid opening in the manner specified **in the BDS.**

- 25.7. The Procuring Agency shall neither discuss the merits of any Bid nor reject any Bid (except for late Bids, in accordance with ITB 23.1).
- 25.8. The Procuring Agency shall prepare a record of the Bid opening that shall include, as a minimum:
- (a) the name of the Bidder and whether there is a withdrawal, substitution, or modification;
 - (b) the Bid Price, per lot (item) if applicable, including any unconditional discounts;
 - (c) the presence or absence of a Bid Security, if one was required.
- 25.9. The Bidders' representatives who are present shall be requested to sign the record. The omission of a Bidder's signature on the record shall not invalidate the contents and effect of the record. A copy of the record shall be distributed to all Bidders.

E. Evaluation and Comparison of Bids

26. Confidentiality

- 26.1 Information relating to the evaluation of Bids and recommendation to award Framework Agreements, shall not be disclosed to Bidders or any other persons not officially concerned with the Bidding process until information on Award of the Framework Agreement(s) is transmitted to all Bidders in accordance with ITB 37.
- 26.2 Any effort by a Bidder to influence the Procuring Agency in the evaluation or decision to award Framework Agreement(s) may result in the rejection of its Bid.
- 26.3 Notwithstanding ITB 26.2, from the time of Bid opening to the time of Framework Agreement award, if any Bidder wishes to contact the Procuring Agency on any matter related to the Bidding process, it should do so in writing.

27. Clarification of Bids

- 27.1 To assist in the examination, evaluation, comparison of Bids, and qualification of Bidders, the Procuring Agency may, at its discretion, ask any Bidder for a clarification of its Bid. Any clarification submitted by a Bidder in respect to its Bid and that is not in response to a request by the Procuring Agency shall not be considered. The Procuring Agency's request for clarification and the response shall be in writing. No change, including any voluntary increase or decrease, in the prices or substance of the Bid shall be

sought, offered, or permitted, except to confirm the correction of arithmetic errors discovered by the Procuring Agency in the Evaluation of the Bids, in accordance with ITB 31.

27.2 If a Bidder does not provide clarifications of its Bid by the date and time set in the Procuring Agency's request for clarification, its Bid may be rejected.

28. Deviations, Reservations, and Omissions

28.1 During the evaluation of Bids, the following definitions apply:

- (a) "Deviation" is a departure from the requirements specified in the Bidding document;
- (b) "Reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the Bidding document; and
- (c) "Omission" is the failure to submit part or all of the information or documentation required in the Bidding document.

29. Determination of Responsiveness

29.1 The Procuring Agency's determination of a Bid's responsiveness is to be based on the contents of the Bid itself, as defined in ITB 11.

29.2 A substantially responsive Bid is one that meets the requirements of the Bidding document without material deviation, reservation, or omission. A material deviation, reservation, or omission is one that:

- (a) if accepted, would:
 - (i) affect in any substantial way the scope, quality, or performance of the Goods and Related Services specified in the Framework Agreement/Call-off Contract; or
 - (ii) limit in any substantial way, inconsistent with the Bidding document, the Procuring Agency's rights or the Bidder's obligations under the Framework Agreement/Call-off Contract; or
- (b) if rectified, would unfairly affect the competitive position of other Bidders presenting substantially responsive Bids.

29.3 The Procuring Agency shall examine the technical aspects of the Bid submitted in accordance with ITB 16 and ITB 17, in particular, to confirm that all requirements of Section VII, Schedule of Requirements have been met without any

material deviation or reservation, or omission.

29.4 If a Bid is not substantially responsive to the requirements of Bidding document, it shall be rejected by the Procuring Agency and may not subsequently be made responsive by correction of the material deviation, reservation, or omission.

30. Nonconformities, Errors and Omissions

30.1 Provided that a Bid is substantially responsive, the Procuring Agency may waive any nonconformities in the Bid.

30.2 Provided that a Bid is substantially responsive, the Procuring Agency may request that the Bidder submit the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial nonconformities or omissions in the Bid related to documentation requirements. Such omission shall not be related to any aspect of the price of the Bid. Failure of the Bidder to comply with the request may result in the rejection of its Bid.

30.3 Provided that a Bid is substantially responsive, the Procuring Agency shall rectify quantifiable nonmaterial nonconformities related to the Bid Price. To this effect, the Bid Price shall be adjusted, for comparison purposes only, to reflect the price of a missing or non-conforming item or component in the manner specified in the **BDS**.

31. Correction of Arithmetical Errors

31.1 Provided that the Bid is substantially responsive, the Procuring Agency shall correct arithmetical errors on the following basis:

- (a) if there is a discrepancy between the unit price and the line item total that is obtained by multiplying the unit price by the quantity, the unit price shall prevail and the line item total shall be corrected;
- (b) if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
- (c) if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (a) and (b) above.

31.2 Bidders shall be requested to accept correction of arithmetical errors. Failure to accept the correction in accordance with ITB

31.1, shall result in the rejection of the Bid, and the Bid security may be forfeited in accordance with ITB 19.6.

32. Evaluation of Bids

- 32.1 The Procuring Agency shall use the criteria and methodologies listed in this ITB and Section III, Evaluation and Qualification Criteria in deciding to award a Framework Agreement(s). No other evaluation criteria or methodologies shall be permitted.
- 32.2 To evaluate a Bid, the Procuring Agency shall consider the following:
- (a) evaluation will be done for Items or Lots, as specified **in the BDS**; and the Bid Price as quoted in accordance with ITB 14;
 - (b) price adjustment for correction of arithmetic errors in accordance with ITB 31.1;
 - (c) price adjustment due to discounts offered in accordance with ITB 14.4;
 - (d) Deleted;
 - (e) price adjustment due to quantifiable nonmaterial nonconformities in accordance with ITB 30.3; and
 - (f) the additional evaluation factors are specified in Section III, Evaluation and Qualification Criteria.
- 32.3 The estimated effect of the price adjustment provisions of the Framework Agreement(s) to determine the Contract Price for any Call-off Contract, applied over the Term of the Framework Agreement, shall not be taken into account in Bid evaluation.
- 32.4 If this Bidding document allows Bidders to quote separate prices for different lots (contracts), the methodology to determine the lowest evaluated cost of the lot (contract) combinations, including any discounts offered in the Letter of Bid, is specified in Section III, Evaluation and Qualification Criteria.
- 32.5 The Procuring Agency's evaluation of a Bid will exclude and not take into account:
- (a) in the case of Goods manufactured in India, or goods of foreign origin already located in India, GST and other similar taxes, which will be payable on the Goods if a Call-off Contract is awarded to the Bidder;
 - (b) any allowance for price adjustment during the period of execution of the Call-off Contract, if provided in

the Bidding documents and/or Framework Agreement.

32.6 The Procuring Agency’s evaluation of a Bid may require the consideration of other factors, in addition to the Bid Price quoted in accordance with ITB 14. These factors may be related to the characteristics, performance, and terms and conditions of purchase of the Goods and Related Services or geographic location. The effect of the factors selected, if any, shall be expressed in monetary terms to facilitate comparison of Bids, unless otherwise specified **in the BDS** from amongst those set out in Section III, Evaluation and Qualification Criteria. The criteria and methodologies to be used shall be as specified in ITB 32.2(f).

33. Comparison of Bids

33.1 The Procuring Agency shall compare the evaluated costs of all substantially responsive Bids established in accordance with ITB 32.2 to determine the ranking of Bids based on the lowest evaluated cost. The comparison shall be on the basis of EXW prices, plus cost of inland transportation and insurance to place of destination, together with prices for any required installation, training, commissioning and other Related Services.

34. Qualification of the Bidder(s)

34.1 Before awarding a Framework Agreements, the Procuring Agency shall determine, to its satisfaction, whether the eligible Bidder(s) with substantially responsive Bid(s) that are able to meet the award criteria, meet(s) the qualifying criteria specified in Section III, Evaluation and Qualification Criteria.

34.2 The determination shall be based upon an examination of the documentary evidence of the Bidder’s qualifications submitted by the Bidder, pursuant to ITB 17. The determination shall not take into consideration the qualifications of other firms such as the Bidder’s subsidiaries, parent entities, affiliates, subcontractors, or any other firm(s) different from the Bidder.

34.3 An affirmative determination shall be a prerequisite for award of the Framework Agreement (s) to the Bidder. A negative determination shall result in disqualification of the Bid.

35. Procuring Agency’s Right to Accept Any Bid, and to Reject Any or All Bids

35.1 The Procuring Agency reserves the right to accept or reject any Bid, and to annul the Bidding process and reject all Bids at any time prior to the award of Framework Agreement(s), without thereby incurring any liability to

Bidders. In case of annulment, all Bids submitted including any Bid Security, shall be promptly returned to the Bidders.

F. Award of Framework Agreement

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| 36. Framework Agreement Award Criteria | 36.1 The Procuring Agency shall specify in the BDS and/or Section |
| | 36.2 This is a Closed Panel Framework Agreement. New suppliers (those who have not participated in this Bidding process) will not be able to join the Framework Agreement Panel during the Term of the Framework Agreement. |
| 37. Notification of Award | 37.1 Prior to the expiration of the Bid Validity Period and subject to ITB 35, the Procuring Agency shall transmit to the successful Bidder(s) a Letter of Acceptance, attaching the Framework Agreement for signature by the Bidder. |
| 38. No Obligation to Purchase | 38.1 The award of a Framework Agreement shall not impose any obligation on the Procuring Agency and/or Purchaser(s) to purchase any Goods under the Framework Agreement. The FA Holder/Supplier has no legitimate expectation of being awarded a Call-off Contract under a Framework Agreement. |
| 39. Non-exclusivity | 39.1 A Framework Agreement shall not be an exclusive agreement and the Procuring Agency and/or Purchaser(s) reserve the right to procure the same or similar items from other suppliers who are non-FA Holders. |
| 40. Signing the Framework Agreement | 40.1 Unless another deadline is stipulated in the BDS, the Bidder shall sign, date and return the Framework Agreement, and furnish the performance security in accordance with ITB 41, within twenty-eight (28) days of receipt of the same. |
| | 40.2 In case of Multi-User Framework Agreement, the Procuring Agency shall sign each Framework Agreement on behalf of all Participating Users. |
| 41. Publication of the Framework Agreement Award Notice | 41.1 At the same time, the Procuring Agency shall publish the Framework Agreement Award Notice which shall contain, at a minimum, the following information: <ul style="list-style-type: none"> (a) name and address of the Procuring Agency, and if applicable, all Participating Users; (b) name and reference number of the Framework Agreement being awarded, and the selection method used; (c) names of all Bidders that submitted Bids, and their Bid prices as read out at Bid opening, and as evaluated; |

- (d) names of all Bidders whose Bids were rejected either as nonresponsive or as not meeting qualification criteria, or were not evaluated, with the reasons therefor; and
- (e) the name(s) of the successful Bidder(s), the duration of Framework Agreement(s), and a summary of its scope.

41.2 The Framework Agreement Contract Award Notice shall be published on National website (Government of India website <http://tenders.gov.in>) or on the Procuring Agency's website with free access if available, or in at least one newspaper of national circulation in the Procuring Agency's Country, or in the official gazette.

42. Performance Security

42.1 Within twenty-one (21) days of the receipt of Letter of Acceptance from the Procuring Agency, the successful Bidder(s) shall furnish the Performance Security in accordance with Framework Agreement Standard and Specific Provisions Clause 10.

42.2 Failure of any successful Bidder to submit the above-mentioned Performance Security or sign the Framework Agreement shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security of such bidder.

G. Secondary Procurement Process

43. Method and criteria for Award of Call-off Contract

43.1 The Procuring Agency shall specify **in the BDS, and the Framework Agreement** (Schedule 3, Secondary Procurement) the Secondary Procurement method(s) that shall apply in selecting a FA Holder and awarding a Call-off Contract.

Section II - Bid Data Sheet (BDS)

The following specific data for the Goods to be procured shall complement, supplement, or amend the provisions in the Instructions to Bidders (ITB). Whenever there is a conflict, the provisions in the BDS shall prevail over those in ITB.

A. General	
ITB 1.1 and 1.2 (p)	<p>The Procuring Agency is: Project Co-ordination & Management Unit, Hon. Balasaheb Thackeray Agribusiness & Rural Transformation (SMART) Project, Department of Agriculture, Government of Maharashtra</p> <p>The procuring Agency is “the agency acting for, and behalf of, all participating purchasers (Community Based Organization / Farmer Producers Company)’ in concluding of Framework Agreement”.</p> <p>The reference number of the Request for Bids (RFB) is: <i>IN-PCMU-SMART-522022-GO-RFB</i></p> <p>The name of the RFB is: <i>Selection of agencies for Framework agreement for supply, installation, commissioning & testing of Cleaning, Grading & Sorting of various capacity</i></p>
ITB 1.2 (a)	<p>Electronic –Procurement System</p> <p>The Procuring Agency shall use the following electronic-procurement system to manage this Procurement process:</p> <p><i>www.mahatenders.gov.in</i></p> <p>The electronic-procurement system shall be used to manage the following aspects of the Procurement process:</p> <p><i>issuing RFB documents, submissions of Bids, opening of Bids, etc</i></p>
ITB 1.2 (f)	<p>This Primary Procurement process will establish a Closed Panel Framework Agreement.</p>
ITB 1.2 (k)	<p>This Primary Procurement process will establish a “Multi-User Framework Agreement”</p>
ITB 1.2 (l)	<p>This Primary Procurement process will establish a Multi-Supplier Framework Agreement. The maximum number of Suppliers that the Procuring Agency may appoint to the Framework Agreement panel shall be in accordance with the Framework Agreement award criteria specified in ITB 36.1.</p>

<p>ITB 1.2 (m) and (p)</p>	<p>Participating Users</p> <p>The Participating Users that are permitted to purchase under the Framework Agreement are: Community Based Organizations / Farmer Producer companies of SMART Project, No of CBOs & Districts are as follows</p> <table border="1" data-bbox="418 426 1365 1619"> <thead> <tr> <th>Sr. No</th> <th>Name of District</th> <th>No of CBOs</th> <th>Remark</th> </tr> </thead> <tbody> <tr><td>1</td><td>Ahilyanagar</td><td>17</td><td rowspan="27">The details & list of approved CBOs (Participating Users) and their respective subprojects under the SMART Project is available on the project website www.smart-mh.org. Bidders are requested to visit the website for detailed information on the purchasers.</td></tr> <tr><td>2</td><td>Akola</td><td>8</td></tr> <tr><td>3</td><td>Amravati</td><td>12</td></tr> <tr><td>4</td><td>Beed</td><td>16</td></tr> <tr><td>5</td><td>Buldhana</td><td>17</td></tr> <tr><td>6</td><td>Chandrapur</td><td>4</td></tr> <tr><td>7</td><td>Chatrapati Sambhaji Nagar</td><td>14</td></tr> <tr><td>8</td><td>Dharashiv</td><td>10</td></tr> <tr><td>9</td><td>Dhule</td><td>6</td></tr> <tr><td>10</td><td>Gadchiroli</td><td>2</td></tr> <tr><td>11</td><td>Hingoli</td><td>9</td></tr> <tr><td>12</td><td>Jalgaon</td><td>20</td></tr> <tr><td>13</td><td>Jalna</td><td>20</td></tr> <tr><td>14</td><td>Kolhapur</td><td>6</td></tr> <tr><td>15</td><td>Latur</td><td>25</td></tr> <tr><td>16</td><td>Nagpur</td><td>3</td></tr> <tr><td>17</td><td>Nanded</td><td>21</td></tr> <tr><td>18</td><td>Nandurbar</td><td>5</td></tr> <tr><td>19</td><td>Nashik</td><td>3</td></tr> <tr><td>20</td><td>Parbhani</td><td>8</td></tr> <tr><td>21</td><td>Pune</td><td>2</td></tr> <tr><td>22</td><td>Sangli</td><td>6</td></tr> <tr><td>23</td><td>Satara</td><td>7</td></tr> <tr><td>24</td><td>Solapur</td><td>11</td></tr> <tr><td>25</td><td>Wardha</td><td>2</td></tr> <tr><td>26</td><td>Washim</td><td>14</td></tr> <tr><td>27</td><td>Yavatmal</td><td>8</td></tr> <tr> <td></td> <td style="text-align: center;">Total</td> <td style="text-align: center;">276</td> <td></td> </tr> </tbody> </table>	Sr. No	Name of District	No of CBOs	Remark	1	Ahilyanagar	17	The details & list of approved CBOs (Participating Users) and their respective subprojects under the SMART Project is available on the project website www.smart-mh.org . Bidders are requested to visit the website for detailed information on the purchasers.	2	Akola	8	3	Amravati	12	4	Beed	16	5	Buldhana	17	6	Chandrapur	4	7	Chatrapati Sambhaji Nagar	14	8	Dharashiv	10	9	Dhule	6	10	Gadchiroli	2	11	Hingoli	9	12	Jalgaon	20	13	Jalna	20	14	Kolhapur	6	15	Latur	25	16	Nagpur	3	17	Nanded	21	18	Nandurbar	5	19	Nashik	3	20	Parbhani	8	21	Pune	2	22	Sangli	6	23	Satara	7	24	Solapur	11	25	Wardha	2	26	Washim	14	27	Yavatmal	8		Total	276	
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<p>ITB 1.2 (u)</p>	<p>Term of Framework Agreement</p> <p>The Framework Agreement shall be established for a Term of <i>one year</i> from the commencement date stated in the Framework Agreement and it may be extended by maximum 2 additional years (i.e. Term +1 +1) subject to satisfactory performance.</p>																																																																																										

ITB 2.1	<p>The Borrower is: Department of Agriculture, Government of Maharashtra</p> <p>Loan or Financing Agreement amount: <i>210 US\$ million equivalent</i></p> <p>The name of the Project is: Hon. Balasaheb Thackeray Agribusiness & Rural Transformation (SMART) Project, Department of Agriculture, Government of Maharashtra</p>
ITB 4.1	Joint Venture is not allowed.
ITB 4.5	<p>A list of debarred firms and individuals is available on the Bank’s external website: http://www.worldbank.org/debarr.</p>
B. Contents of RFB Document	
ITB 7.1	<p>For clarification of Bid purposes only, the Procuring Agency’s address is: Hon. Balasaheb Thackeray Agribusiness & Rural Transformation (SMART) Project, Department of Agriculture, Government of Maharashtra, Sheti Mahamandal Bhavan, 270, Bhamburda, Senapati Bapat Road, Pune – 411 016, Attention: <i>Uday Deshmukh, Additional Project Director</i>.</p> <p>Address: Hon. Balasaheb Thackeray Agribusiness & Rural Transformation (SMART) Project, Department of Agriculture, Government of Maharashtra, Sheti Mahamandal Bhavan, 270, Bhamburda, Senapati Bapat Road, Pune – 411 016, Country: India</p> <p>Telephone: 020-25656577 & 020-25656578</p> <p>Email address: <i>pcmu.smart@gmail.com</i></p> <p>Requests for clarification should be received by the Procuring Agency no later than: <i>15 days before the deadline for submission of Bids</i>”.</p> <p>Web page: www.smart-mh.org</p>
ITB 7.2	<p>A Pre-Bid meeting <i>shall</i> take place. If a Pre-Bid meeting will take place, it will be at the following date, time and place:</p> <p>Date: 24/11/2025</p> <p>Time: 11.00 Hrs</p> <p>Place: Hon. Balasaheb Thackeray Agribusiness & Rural Transformation (SMART) Project, Sheti Mahamandal Bhavan, 270, Bhamburda, Senapati Bapat Road, Pune – 411 016.</p>
C. Preparation of Bids	
ITB 11.1 (j)	<p>The Bidder shall submit the following additional documents in its Bid:</p> <ol style="list-style-type: none"> 1. Power of attorney 2. Self-Declaration for Technical Specification Compliance

	<p>3. The bidder should furnish a brief write-up, backed with adequate data, explaining his available capacity and experience (both technical and commercial) for the manufacture and supply of the required systems and equipment within the specified time of completion after meeting all their current commitments.</p> <p>4. The bidder should clearly confirm that all the facilities exist in his factory for inspection and testing and these will be made available to the Purchaser or his representative for inspection.</p> <p>5. Details of Service Centers and information on service support facilities that would be provided after the warranty period.</p>												
ITB 14.5	The prices quoted by the Bidder shall not be subject to a price adjustment during the Term of the Framework Agreement.												
ITB 14.7	The Incoterms edition is: Incoterms 2020.												
ITB 14.8 (a)(iii)	<p>Final Destination (Project Site) will be specified in each Call-off Contract awarded under the Framework Agreement.</p> <p>For the purpose of Bidding, indicative final destination(s) are included in Schedule of Requirements.</p>												
ITB 16.4	Period of time the Goods are expected to be functioning (for the purpose of spare parts): <i>3 years</i> following acceptance of the Goods by the Purchaser under a Call-off Contract.												
ITB 17.2 (a)	Manufacturer's authorization is: <i>required</i>												
ITB 17.2 (b)	After sales service is: <i>required</i> which shall be provided by the Supplier or alternatively by its Agent in case of a foreign bidder'												
ITB 18.1	The Bid validity period shall be <i>120</i> days after the deadline date specified for submission.												
ITB 18.3(a)	The base price for FA shall be adjusted by a factor reflecting inflation in India during the period of extension of bid validity.												
ITB 19.1	<p>A separate Bid Security shall be required for each item. The item wise Bid Security amount is as follow :-</p> <table border="1"> <thead> <tr> <th>Sr No</th> <th>Description of Item</th> <th>Amount of Bid security in Rs</th> </tr> </thead> <tbody> <tr> <td>01</td> <td>Cleaning Grading & Sorting Unit 1 TPH (Semi-automatic)</td> <td>75,000.00</td> </tr> <tr> <td>02</td> <td>Cleaning Grading & Sorting Unit 2-3 TPH (Semi-automatic)</td> <td>17,000.00</td> </tr> <tr> <td>03</td> <td>Cleaning Grading & Sorting Unit 1-2 TPH (Fully automatic)</td> <td>4,30,000.00</td> </tr> </tbody> </table>	Sr No	Description of Item	Amount of Bid security in Rs	01	Cleaning Grading & Sorting Unit 1 TPH (Semi-automatic)	75,000.00	02	Cleaning Grading & Sorting Unit 2-3 TPH (Semi-automatic)	17,000.00	03	Cleaning Grading & Sorting Unit 1-2 TPH (Fully automatic)	4,30,000.00
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	04	Cleaning Grading & Sorting Unit 3 TPH (Fully automatic)	72,000.00
	05	Cleaning Grading & Sorting Unit 4-5 TPH (Fully automatic)	12,00,000.00
<p><i>[Notes- Bidders may submit a single Bid Security covering all the items for which bids are submitted. However, if the Bid Security amount is less than the total required value, the Purchaser will allocate the available Bid Security to specific item(s) based on the lowest cost combination to the Procuring Agency.]</i></p>			
ITB 19.2 (a,b,c)	The bidder shall furnish the bid security in the form of Demand Draft or an unconditional bank guarantee issued by a Nationalized/ Scheduled bank located in India.		
ITB 19.2 (d)	None		
ITB 20.1	In addition to the original Bid, one copy shall be submitted to the Procuring Agency within two days after the online bid submission deadline.		
ITB 20.3	The written confirmation of authorization to sign on behalf of the Bidder shall consist of Power of Attorney .		
D. Submission and Opening of Bids			
ITB 22.1	<p>For Bid submission purposes only, the Procuring Agency's address is: Hon. Balasaheb Thackeray Agribusiness & Rural Transformation (SMART) Project, Sheti Mahamandal Bhavan, 270, Bhamburda, Senapati Bapat Road, Pune – 411 016, Country: India</p> <p>Telephone: 020-25656577 & 020-25656578</p> <p>Email address: <i>pcmu.smart@gmail.com</i></p> <p>Attention: <i>Mr. Uday Deshmukh, Additional Project Director</i></p> <p>Country: India</p> <p>The deadline for Bid submission is:</p> <p>Date: 22/12/2025</p> <p>Time: 03.00 PM</p> <p>Bidders shall Submit their Bids electronically on https://mahatenders.gov.in</p> <p>The electronic bidding submission procedures shall be: Details available on https://mahatenders.gov.in .</p>		
ITB 25.1	The Bid opening shall take place online on https://mahatenders.gov.in		

	Date: 24/12/2025 Time: 03.00 PM
ITB 25.6	“Not Applicable” since the mode of procurement is through E-procurement.

E. Evaluation and Comparison of Bids

ITB 30.3	The adjustment shall be based on the highest price of the item or component as quoted in other substantially responsive Bids, subject to a maximum of the estimated price of the item. If the price of the item or component cannot be derived from the price of other substantially responsive Bids, the Procuring Agency shall use its best estimate.
ITB 32.2(a)	Evaluation will be done for <i>items</i> “Bids will be evaluated for each item and each Framework Agreement will include the stated item(s) in respect of each successful Bidder.”
ITB 32.6	The consideration of other factors during the evaluation, in addition to the Bid Price quoted, include the factors set out below as more fully described in Section III, Evaluation and Qualification Criteria; (a) Deviation in Delivery schedule: Not allowed. (b) Deviation in payment schedule: Not allowed. (c) The cost of major replacement component, mandatory spare parts, and service: <i>Yes</i> (d) The availability in the Purchaser’s Country of spare parts and after-sales services for the equipment offered in the Bid <i>Yes</i> (e) Life cycle costs: Not allowed. (f) The performance and productivity of the equipment offered: Not allowed.

F. Award of Framework Agreement
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ITB 36.1	Award criteria for a Multi-Supplier Framework Agreement: As part of the evaluation, all Bids shall be ranked in terms of evaluated cost(s), with the first ranked being the lowest evaluated cost, the second ranked being the second lowest evaluated cost, and so on. The Procuring Agency will award FAs to the Bidders that meet the qualification criteria and whose Bids have been determined to be
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	<p>substantially responsive to the Bidding document subject to following size of Framework Agreement panel:</p> <p><u>Minimum number (x)</u></p> <p>The Procuring Agency intends to conclude a Framework Agreements with a minimum number of x [3] Bidders for each item.</p> <p><u>Maximum number (y)</u></p> <p>The maximum number of Bidders that the Procuring Agency may conclude Framework Agreements with is [15] for each item.</p>
<p>G. Secondary Procurement Process</p>	
<p>ITB 43</p>	<p>The Secondary Procurement method for the selection of a FA Holder to undertake a Call-off Contract shall be as follows:</p> <p>Mini-competition among FA Holders:</p> <p>Purchasers will invite online competitive quotes through www.mahatenders.gov.in from all the FA Holders and award the Call-off Contract based on the lowest evaluated cost. During this process a FA Holder cannot quote more than the price quoted by it during the Primary Procurement Process (as set out in the Framework Agreement, Schedule 2), with the appropriate price adjustment applied at the end of each year, if specified in the BDS/Framework Agreement. Repeated failure of a FA Holder to adhere to this provision or non-participation in Secondary Procurement Process may result in termination of its FA Agreement, by the Procuring Agency.</p> <p>Ceiling on Value of Call-off Contracts: the total value of Call-off contracts against the Framework Agreement(s) shall normally not exceed Rs – 108.00 Cr unless the duration of the framework agreement is extended under ITB 1.2(u)</p>

Section III - Evaluation and Qualification Criteria

This Section contains the criteria that the Procuring Agency shall use for award Framework Agreement(s). The criteria and methodology described is to evaluate Bids and qualify Bidders. No other factors, methods or criteria shall be used other than specified in this RFB document for the Primary Procurement process.

1. Evaluation of Bids for (ITB 32)

The Procuring Agency shall use the criteria and methodologies described in ITB 34 and this Section III, Evaluation and Qualification to determine the Bids that meet the qualification criteria and are substantially responsive to the provisions of the RFB document including but not limited to:

- (a) Eligibility of Bidders;
- (b) Eligibility of Goods and Related Services;
- (c) Fraud & Corruption;
- (d) Bid Security;
- (e) Bid Validity;
- (f) Authorization;
- (g) Conformity;
- (h) Clarification of Bids;
- (i) Bidder's Qualifications to Perform the Framework Agreement;
- (j) Deviations, Reservations, and Omissions;
- (k) Availability in the Procuring Agency's Country of spare parts and after sales services etc.

1.1. Evaluation Criteria (ITB 32.6)

The Procuring Agency's evaluation of a Bid may take into account, in addition to the Bid Price quoted in accordance with ITB 14.8, one or more of the following factors as specified in ITB 32.2(f) and in BDS referring to ITB 32.6, using the following criteria and methodologies.

- (a) **Delivery schedule – Not Applicable**
- (b) **Deviation in payment schedule – Not Applicable**
- (c) **Cost of major replacement components, mandatory spare parts, and service**
 - (i) *The list of items and quantities of major assemblies, components, and selected spare parts, likely to be required during the initial period of operation specified in the BDS 16.4, is in the List of Goods. An adjustment equal to the total cost of these items, at the unit prices quoted in each Bid, shall be added to the Bid price, for evaluation purposes only.*
- (d) **Availability in India of spare parts and after sales services for equipment offered in the Bid.**

An adjustment equal to the cost to the Procuring Agency of establishing the minimum service facilities and parts inventories if quoted separately, shall be added to the Bid price, for evaluation purposes only.
- (e) **Life Cycle Costs – Not Applicable**
- (f) **Performance and productivity of the equipment - Not Applicable**
- (g) **Specific additional criteria**

2. Post Qualification Criteria (ITB 34.1)

After determining the substantially responsive Bid(s) which offer the lowest-evaluated cost in accordance with ITB 32 through to the ‘x’ ranked bids (ITB 36 refers), the Procuring Agency shall carry out the post-qualification of each of these Bidder(s) in accordance with ITB 34, using only the requirements specified. Requirements not included in the text below shall not be used in the evaluation of the Bidder’s qualifications.

2.1 (a) If the Bidder is a manufacturer:

(i) **Financial Capability**

The Bidder shall furnish documentary evidence that it meets the following financial requirement(s):

“The bidder’s should have average annual turnover during the last three financial years (i.e. 2021-22, 2022-23, 2023-24 Or 2022-23, 2023-24, 2024-25) shall be as specified in the table below. (duly certified by statutory auditor from Chartered Accountant with UDIN).

Sr No	Name of Item	average annual turnover during the last three financial years RS.
01	Cleaning Grading & Sorting Unit 1 TPH (Semi-automatic)	10,00,000.00
02	Cleaning Grading & Sorting Unit 2-3 TPH (Semi-automatic)	13,00,000.00
03	Cleaning Grading & Sorting Unit 1-2 TPH (Fully automatic)	56,00,000.00
04	Cleaning Grading & Sorting Unit 3 TPH (Fully automatic)	79,00,000.00
05	Cleaning Grading & Sorting Unit 4-5 TPH (Fully automatic)	2,22,00,000.00

(ii) **Experience and Technical Capacity**

The Bidder shall furnish documentary evidence to demonstrate that it meets the following experience requirement(s):

“Should have manufactured and sold at least three unit of goods/Machinery/ equipment of same or higher capacity for which this bid is invited in each of last three financial year.”

Further, bidder should be in continuous business of manufacturing products similar to that specified in the Schedule of Requirements during the last three years prior to bid opening.

(iii) **Documentary Evidence**

“Test report of offered goods/machinery /equipment issued by agriculture university/ICAR/ agency authorized by any Central / State government to issue such test certificate/report shall be submitted.”

(iv) Should have GST registration and status should be Active

2.1 (b) If Bidder is not a manufacturer:

If a Bidder is not a manufacturer, but is offering the Goods on behalf of the Manufacturer under Manufacturer's Authorization Form (Section IV, Bidding Forms), the Manufacturer shall demonstrate the above qualifications (i), (ii), (iii) and

(iv) Should have GST registration and status should be Active

(v) The bidder should have satisfactorily supplied and installed at least two units of similar goods, machinery, or equipment of the same or higher capacity as invited under this bid during the last three years up to the bid submission deadline.

(vi) “The bidder’s should have average annual turnover during the last three financial years (i.e. 2021-22, 2022-23, 2023-24 Or 2022-23, 2023-24, 2024-25) shall be as specified in the table below. (duly certified by statutory auditor from Chartered Accountant with UDIN).

Sr No	Name of Item	average annual turnover during the last three financial years RS.
01	Cleaning Grading & Sorting Unit 1 TPH (Semi-automatic)	7,00,000.00
02	Cleaning Grading & Sorting Unit 2-3 TPH (Semi-automatic)	9,00,000.00
03	Cleaning Grading & Sorting Unit 1-2 TPH (Fully automatic)	38,00,000.00
04	Cleaning Grading & Sorting Unit 3 TPH (Fully automatic)	52,00,000.00
05	Cleaning Grading & Sorting Unit 4-5 TPH (Fully automatic)	1,48,00,000.00

2.2 To qualify for a package consisting of multiple items, the bidder must demonstrate having experience and resources sufficient to meet the aggregate of the qualifying criteria for individual items.

2.3 The bidder should furnish a brief write-up, backed with adequate data, explaining his available capacity (both technical and financial), for manufacture and supply of the required equipment, within the specified time of completion, after meeting all their current commitments.

2.4 The bidder should furnish the information on all past supplies and satisfactory performance for both (a) and (b) above.

2.5 Notwithstanding anything stated above, the purchaser reserves the right to assess the Bidders capabilities and capacity to execute the call-off contracts satisfactorily before deciding on award;

2.6 All bids submitted shall also include the following information

- (i) The bidder should clearly confirm that all the facilities exist in his factory for inspection and testing and these will be made available to the Purchaser or his representative for inspection.
- (ii) Details of Service Centers and information on service support facilities that would be provided after the warranty period.
- (iii) Bidders shall invariably furnish documentary evidence (End User's certificate) in support of the satisfactory operation of the goods as specified above.
- (iv) The legal status, place of registration and principal place of business of the company or firm or partnership, etc

3. Framework Agreement Award Criteria (ITB 36)

As part of the evaluation, all Bids shall be ranked in terms of evaluated cost(s), with the first ranked being the lowest evaluated cost, the second ranked being the second lowest evaluated cost, and so on.

The Procuring Agency will award FAs to the Bidders that meet the qualification criteria and whose Bids have been determined to be:

- (a) substantially responsive to the Bidding document; and
- (b) using the ranking based on the lowest evaluated cost, select the first ranked Bid through to the 'x' ranked Bid fall within 'y' (30%) of the lowest evaluated cost (maximum number of Bids). This is subject to the proviso that the Procuring Agency reserves the right to appoint less than the maximum number of Bidders where, for example, an insufficient number of Bids are received, or an insufficient number of Bids meet the award criteria.
- (c) Abnormally Low Bid – If the quoted bid price is found to be significantly low (i.e., more than 20% below the estimated cost) compared to the indicative cost norms prescribed by the Government and disclosed in the sub-project approval, the bidder will be asked in writing to provide an explanation. The explanation should demonstrate adherence to the prescribed specifications and be supported by a performance statement and relevant documents justifying the quoted price. If the explanation is unsatisfactory or not provided within the stipulated response period of five business days, the bid will be excluded from further evaluation and from the Framework Agreement.

Section IV - Bid Forms

Letter of Bid

Primary Procurement - Framework Agreement Goods

INSTRUCTIONS TO BIDDERS: DELETE THIS BOX ONCE YOU HAVE COMPLETED THE DOCUMENT

The Bidder must prepare this Letter of Bid on stationery with its letterhead clearly showing the Bidder's complete name and business address.

Note: All italicized text is to help Bidders in preparing this form.

Framework Agreement – Selection of agencies for Frame Work Agreement for supply installation, testing & commissioning of Cleaning, Grading & Sorting machinery at Farmer Producer Companies / Community Based organization in various districts of in Maharashtra state Under SMART Project

Date of this Bid submission:

Request for Bid No.: *IN-PCMU-SMART-522022-GO-RFB*

To:

Project Director,

Hon. Balasaheb Thackeray Agribusiness & Rural Transformation (SMART) Project, Pune

1. **No reservations:** We have examined and have no reservations to the RFB document, including Addenda issued in accordance with Instructions to Bidders (ITB 8);
2. **Eligibility:** We meet the eligibility requirements and have no conflict of interest in accordance with ITB 4;
3. **Conformity:** We offer to supply in conformity with the RFB document and in accordance with the indicative Delivery Schedules specified in the Schedule of Requirements the following Goods: [*insert a brief description of the Goods and Related Services*];
4. **Bid Price:** The total price of our Bid, excluding any discounts offered in item (g) below is:

Total price of each item [*insert the total price of each lot in Rs in words and figures*; and (b) Total price of all items (sum of all lots) [*insert the total price of all lots in Rs in words and figures*];
5. **Discounts:** The discounts offered are: [*Specify in detail each discount offered.*]

- (i) The exact method of calculations to determine the net price after application of discounts is shown below: *[Specify in detail the method that shall be used to apply the discounts]*;
6. **Bid Validity Period:** Our Bid shall be valid for the period specified in BDS 18.1 (as amended, if applicable) from the date fixed for the Bid submission deadline specified in BDS 22.1 (as amended, if applicable), and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
7. **Performance Security:** If our Bid is accepted and we are awarded a Framework Agreement, we commit to obtain a performance security in accordance with the bidding document;
8. **One Bid per Bidder:** We are not submitting any other Bid(s) as an individual Bidder, and we are not participating in any other Bid(s) as a subcontractor, and meet the requirements of ITB 4.3;
9. **Suspension and Debarment:** We, along with any of our subcontractors, suppliers, consultants, manufacturers, or service providers for any part of the contract, are not subject to, and not controlled by any entity or individual that is subject to, a temporary suspension or a debarment imposed by the World Bank Group or a debarment imposed by the World Bank Group in accordance with the Agreement for Mutual Enforcement of Debarment Decisions between the World Bank and other development banks. Further, we are not ineligible under the Procuring Agency’s Country laws or official regulations or pursuant to a decision of the United Nations Security Council;
10. **State-owned enterprise or institution:** *[select the appropriate option and delete the other] [We are not a state-owned enterprise or institution] / [We are a state-owned enterprise or institution but meet the requirements of ITB 4.6];*
12. **Commissions, gratuities, fees:** We have paid, or will pay the following commissions, gratuities, or fees with respect to the RFB process or execution of the Contract: *[insert complete name of each Recipient, its full address, the reason for which each commission or gratuity was paid and the amount of each such commission or gratuity]*

Name of Recipient	Address	Reason	Amount

(If none has been paid or is to be paid, indicate “none.”)

13. **No Binding Contract:** We understand that this Bid, together with your Letter of Acceptance, and the award and execution of a Framework Agreement, shall not constitute a binding contract between us, until a formal Call-off Contract awarded under the Framework Agreement, is prepared and executed;

14. **No exclusivity:** We understand that the award of a Framework Agreement, provides no form of exclusivity between the Procuring Agency/Purchaser to the FA Holder/Supplier. The Procuring Agency/Purchaser is, at all times, entitled to enter into other contracts and agreements with other suppliers for the provision of any or all goods which are the same as or similar to the Goods.
15. **Not Bound to Purchase:** We understand that there is no obligation on the Procuring Agency or Purchaser(s) to purchase any Goods, and/or Related Services from any FA Holder/Supplier during the Term of the Framework Agreement.
16. **No expectation of Call-off Contract:** We confirm that no undertaking or any form of statement, promise, representation or obligation has been made by the Procuring Agency or Purchaser in respect of the total quantities or value of the Goods that may be ordered by it, or any Participating User(s), in accordance with this Framework Agreement. We acknowledge and agree that we have not submitted this Bid on the basis of any such undertaking, statement, promise or representation. In the event that we are a Framework Agreement, we have no legitimate expectation of being awarded a Call-off Contract under the Framework Agreement.
17. **Not Bound to Accept:** We understand that you are not bound to accept the lowest evaluated cost Bid, the Most Advantageous Bid or any other Bid that you may receive.
18. **Fraud and Corruption:** We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf engages in any type of Fraud and Corruption.

Name of the Bidder: *[insert complete name of the Bidder]*

Name of the person duly authorized to sign the Bid on behalf of the Bidder: ***[insert complete name of person duly authorized to sign the Bid]*

Title of the person signing the Bid: *[insert complete title of the person signing the Bid]*

Signature of the person named above: *[insert signature of person whose name and capacity are shown above]*

Date signed *[insert date of signing]* **day of** *[insert month]*, *[insert year]*

****** Person signing the Bid shall have the power of attorney given by the Bidder. The power of attorney shall be attached with the Bid Schedules.

Bidder Information Form

Primary Procurement - Framework Agreement Goods

[The Bidder shall fill in this Form in accordance with the instructions indicated below. No alterations to its format shall be permitted and no substitutions shall be accepted.]

Date: *[insert date (as day, month and year) of Bid submission]*
RFB No.: *IN-PCMU-SMART-522022-GO-RFB*

Page _____ of _____ pages

1. Bidder's Name <i>[insert Bidder's legal name]</i>
2. Deleted
3. Bidder's actual or intended country of registration: <i>[insert actual or intended country of registration]</i>
4. Bidder's year of registration: <i>[insert Bidder's year of registration]</i>
5. Bidder's Address in country of registration: <i>[insert Bidder's legal address in country of registration]</i>
6. Bidder's Authorized Representative Information Name: <i>[insert Authorized Representative's name]</i> Address: <i>[insert Authorized Representative's Address]</i> Telephone/Fax numbers: <i>[insert Authorized Representative's telephone/fax numbers]</i> Email Address: <i>[insert Authorized Representative's email address]</i>
7. Attached are copies of original documents of <i>[check the box(es) of the attached original documents]</i> <input type="checkbox"/> Articles of Incorporation (or equivalent documents of constitution or association), and/or documents of registration of the legal entity named above, in accordance with ITB 4.4. <input type="checkbox"/> In case of state-owned enterprise or institution, in accordance with ITB 4.6 documents establishing: <ul style="list-style-type: none"> • Legal and financial autonomy • Operation under commercial law • Establishing that the Bidder is not under the supervision of the Procuring Agency or Purchaser
8. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership.

Sexual Exploitation and Abuse (SEA) and/or Sexual Harassment Performance Declaration

[The following table shall be filled in by the Bidder, each member of a Joint Venture and each subcontractor proposed by the Bidder]

Bidder's Name: *[insert full name]*

Date: *[insert day, month, year]*

Joint Venture Member's or Subcontractor's Name: *[insert full name]*

RFB No. and title: *[insert RFB number and title]*

Page *[insert page number]* of *[insert total number]* pages

SEA and/or SH Declaration
in accordance with Section III, Qualification Criteria, and Requirements
<p>We:</p> <p><input type="checkbox"/> (a) have not been subject to disqualification by the Bank for non-compliance with SEA/ SH obligations</p> <p><input type="checkbox"/> (b) are subject to disqualification by the Bank for non-compliance with SEA/ SH obligations</p> <p><input type="checkbox"/> (c) had been subject to disqualification by the Bank for non-compliance with SEA/ SH obligations, and were removed from the disqualification list. An arbitral award on the disqualification case has been made in our favor.</p>
<p><i>[If (c) above is applicable, attach evidence of an arbitral award reversing the findings on the issues underlying the disqualification.]</i></p>

Proforma for Performance Statement

Proforma for Performance Statement

Order placed by (full address of Purchaser)	Order No. and date	Description and quantity of ordered equipmen	Value of order	Date of completion of delivery		Remarks indicating reasons for late delivery, if any	Has the equipment been satisfactorily functioning? (Attach a certificate form the Purchaser/Consignee)
				As per contract	Actual		

Signature and seal of the Bidder

Note: This form is to be completed and uploaded as a part of Technical Bid along with relevant documents.

Price Schedule Forms

*[The Bidder shall fill in these Price Schedule Forms in accordance with the instructions indicated. The list of line items in column 1 of the **Price Schedules** shall coincide with the List of Goods and Related Services specified by the Procuring Agency in the Schedule of Requirements.]*

Price Schedule: For Supply as per Schedule of Requirements

Procuring Agency's Country India					Currency Indian Rupees			Date: _____ RFB No: _____ Page N° _____ of _____	
1	2	3	4	5	6	7	8	9	10
Line Item N°	Description of Goods	Country of Origin	Indicative Delivery Date	Indicative Quantity and physical unit	Unit price EXW	Total EXW price per line item (Col. 5×6)	Price per line item for inland transportation and other Related Services required to convey the Goods to their final destination in India	GST and other taxes payable per line item if Framework Agreement is awarded (in accordance with ITB 14.8(a)(ii))	Total Price per line item (Col. 7+8)
<i>[insert number of the item]</i>	<i>[insert name of Good]</i>	<i>[insert Country of Origin of Goods]</i>	<i>[insert quoted Delivery Date]</i>	<i>[insert number of units to be supplied and name of the physical unit]</i>	<i>[insert EXW unit price]</i>	<i>[insert total EXW price per line item]</i>	<i>[insert the corresponding price per line item]</i>	<i>[insert GST and other taxes payable per line item if Framework Agreement is awarded]</i>	<i>[insert total price per item]</i>
01	Cleaning Grading & Sorting Unit 1 TPH (Semi-automatic)			92					
02	Cleaning Grading & Sorting Unit 2-3 TPH (Semi-automatic)			16					

03	Cleaning Grading & Sorting Unit 1-2 TPH (Fully automatic)			92					
04	Cleaning Grading & Sorting Unit 3 TPH (Fully automatic)			11					
05	Cleaning Grading & Sorting Unit 4-5 TPH (Fully automatic)			65					
								Total Price Rs	
Name of Bidder <i>[insert complete name of Bidder]</i> Signature of Bidder <i>[signature of person signing the Bid]</i> Date <i>[insert date]</i>									

Price and Completion Schedule - Related Services						
Procuring Agency's Country India		Currency Indian Rupees				Date: _____ RFB No: _____ Page N° _____ of _____
1	2	3	4	5	6	7
Service N°	Description of Services (excludes inland transportation and other Related Services required to convey the Goods to their final destination in India)	Country of origin	Indicative Delivery Date at place of Final destination	Indicative Quantity and physical unit	Unit price	Total Price per Service (Col. 5*6 or estimate)
<i>[insert number of the Service]</i>	<i>[insert name of Services]</i>	<i>Country of origin</i>	<i>[insert delivery date at place of final destination per Service]</i>	<i>[insert number of units to be supplied and name of the physical unit]</i>	<i>[insert unit price per item]</i>	<i>[insert total price per item]</i>
01	Installation, Commissioning, Testing, training services for Cleaning Grading & Sorting Unit 1 TPH (Semi-automatic)			92		
02	Installation, Commissioning, Testing, training services for Cleaning Grading & Sorting Unit 2-3 TPH (Semi-automatic)			16		
03	Installation, Commissioning, Testing, training services for Cleaning Grading & Sorting Unit 1-2 TPH (Fully automatic)			92		
04	Installation, Commissioning, Testing, training services for Cleaning Grading & Sorting Unit 3 TPH (Fully automatic)			11		
05	Installation, Commissioning, Testing, training services for Cleaning Grading & Sorting Unit 4-5 TPH (Fully automatic)			65		
				Total Bid Price Rs		
Name of Bidder <i>[insert complete name of Bidder]</i> Signature of Bidder <i>[signature of person signing the Bid]</i> Date <i>[insert date]</i>						

Form of Bid Security - Bank Guarantee

[Guarantor letterhead or SWIFT identifier code]

Bank Guarantee No.....*[insert guarantee reference number]*

Date.....*[insert date of issue of the guarantee]*

WHEREAS, _____ *[name of Bidder]* (hereinafter called "the Applicant") has submitted his Bid dated _____ *[date]* or will submit his Bid for the supply of _____ *[name of Framework Agreement]* (hereinafter called "the Bid") under Request for Bids No.....*[insert number]* (hereinafter called "the RFB")

KNOW ALL PEOPLE by these presents that We _____ *[name of bank]* of _____ *[name of country]* having our registered office at _____ (hereinafter called "the Bank") are bound unto _____ *[name of Procuring Agency]* (hereinafter called "the Procuring Agency") in the sum of _____² for which payment well and truly to be made to the said Procuring Agency the Bank binds itself, his successors and assigns by these presents.

SEALED with the Common Seal of the said Bank this _____ day of _____ 20____.

THE CONDITIONS of this obligation are:

- (1) If after Bid opening the Applicant (a) withdraws his bid during the period of Bid validity specified in the Letter of Bid; or (b) does not accept the correction of the Bid Price pursuant to ITB 31;

or

- (2) If the Applicant having been notified of the acceptance of his bid by the Procuring Agency during the period of Bid validity:
 - (a) fails or refuses to execute the Framework Agreement in accordance with the Instructions to Bidders, if required; or

² The Applicant should insert the amount of the guarantee in words and figures denominated in Indian Rupees. This figure should be the same as shown in Clause 19.1 of the Instructions to Bidders.

- (b) fails or refuses to furnish the Performance Security, in accordance with the Instruction to Bidders.

we undertake to pay to the Procuring Agency up to the above amount upon receipt of his first written demand, without the Procuring Agency having to substantiate his demand, provided that in his demand the Procuring Agency will note that the amount claimed by him is due to him owing to the occurrence of one or any of the four conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force up to and including the date _____³ days after the deadline for submission of Bids as such deadline is stated in the Instructions to Bidders or as it may be extended by the Procuring Agency, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this guarantee should reach the Bank not later than the above date.

DATE _____ SIGNATURE OF THE BANK _____

WITNESS _____ SEAL _____

[signature, name, and address]

Note: All italicized text (including footnotes) is for use in preparing this form and shall be deleted from the final product.

³ 45 days after the end of the validity period of the Bid.

Manufacturer's Authorization

*[The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer. The Bidder shall include it in its Bid, if so indicated in the **BDS**.]*

Date: *[insert date (as day, month and year) of Bid submission]*

RFB No.: *[insert number of RFB process]*

To: *[insert complete name of Procuring Agency]*

WHEREAS

We *[insert complete name of Manufacturer]*, who are official manufacturers of *[insert type of Goods manufactured]*, having factories at *[insert full address of Manufacturer's factories]*, do hereby authorize *[insert complete name of Bidder]* to submit a Bid the purpose of which is to provide the following Goods, manufactured by us *[insert name and or brief description of the Goods]*, and to subsequently sign a Framework Agreement permitting them to enter into Call-off Contracts for the supply of the Goods.

We hereby extend our full guarantee and warranty in accordance with Clause 28 of the Call-off Contract General Conditions of Contract (GCC) (as set out in the Framework Agreement, Schedule 4), with respect to the Goods offered by the above firm.

Signed: *[insert signature(s) of authorized representative(s) of the Manufacturer]*

Name: *[insert complete name(s) of authorized representative(s) of the Manufacturer]*

Title: *[insert title]*

Dated on _____ day of _____, _____ *[insert date of signing]*

Section V - Eligible Countries

Eligibility for the Provision of Goods, Works and Non Consulting Services in Bank-Financed Procurement

In reference to ITB 4.7 and ITB 5.1, for the information of the Bidders, at the present time firms, Goods and Related Services from the following countries are excluded from this procurement process:

1. Under ITB 4.7(a) and ITB 5.1: *[insert a list of the countries following approval by the Bank to apply the restriction or state "none"]*.
2. Under ITB 4.7(b) and ITB 5.1: *[insert a list of the countries following approval by the Bank to apply the restriction or state "none"]*

Section VI - Fraud and Corruption

(Section VI shall not be modified)

1. Purpose

1.1 The Bank’s Anti-Corruption Guidelines and this annex apply with respect to procurement under Bank Investment Project Financing operations.

2. Requirements

2.1 The Bank requires that Borrowers (including beneficiaries of Bank financing); Bidders (applicants/proposers), consultants, contractors and suppliers; any sub-contractors, sub-consultants, service providers or suppliers; any agents (whether declared or not); and any of their personnel, observe the highest standard of ethics during the procurement process, selection and contract execution of Bank-financed contracts, and refrain from Fraud and Corruption.

2.2 To this end, the Bank:

- a. Defines, for the purposes of this provision, the terms set forth below as follows:
 - i. “corrupt practice” is the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;
 - ii. “fraudulent practice” is any act or omission, including misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain financial or other benefit or to avoid an obligation;
 - iii. “collusive practice” is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;
 - iv. “coercive practice” is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;
 - v. “obstructive practice” is:
 - (a) deliberately destroying, falsifying, altering, or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a Bank investigation into allegations of a corrupt, fraudulent, coercive, or collusive practice; and/or threatening, harassing, or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or
 - (b) acts intended to materially impede the exercise of the Bank’s inspection and audit rights provided for under paragraph 2.2 e. below.

- b. Rejects a proposal for award if the Bank determines that the firm or individual recommended for award, any of its personnel, or its agents, or its sub-consultants, sub-contractors, service providers, suppliers and/ or their employees, has, directly or indirectly, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices in competing for the contract in question;
- c. In addition to the legal remedies set out in the relevant Legal Agreement, may take other appropriate actions, including declaring misprocurement, if the Bank determines at any time that representatives of the Borrower or of a recipient of any part of the proceeds of the loan engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices during the procurement process, selection and/or execution of the contract in question, without the Borrower having taken timely and appropriate action satisfactory to the Bank to address such practices when they occur, including by failing to inform the Bank in a timely manner at the time they knew of the practices;
- d. Pursuant to the Bank's Anti- Corruption Guidelines, and in accordance with the Bank's prevailing sanctions policies and procedures, may sanction a firm or individual, either indefinitely or for a stated period of time, including by publicly declaring such firm or individual ineligible (i) to be awarded or otherwise benefit from a Bank-financed contract, financially or in any other manner;¹ (ii) to be a nominated² sub-contractor, consultant, manufacturer or supplier, or service provider of an otherwise eligible firm being awarded a Bank-financed contract; and (iii) to receive the proceeds of any loan made by the Bank or otherwise to participate further in the preparation or implementation of any Bank-financed project;
- e. Requires that a clause be included in bidding/request for proposals documents and in contracts financed by a Bank loan, requiring (i) Bidders (applicants/proposers), consultants, contractors, and suppliers, and their sub-contractors, sub-consultants, service providers, suppliers, agents personnel, permit the Bank to inspect³ all accounts, records and other documents relating

¹ For the avoidance of doubt, a sanctioned party's ineligibility to be awarded a contract shall include, without limitation, (i) applying for pre-qualification, expressing interest in a consultancy, and bidding, either directly or as a nominated sub-contractor, nominated consultant, nominated manufacturer or supplier, or nominated service provider, in respect of such contract, and (ii) entering into an Addendum or amendment introducing a material modification to any existing contract.

² A nominated sub-contractor, nominated consultant, nominated manufacturer or supplier, or nominated service provider (different names are used depending on the particular bidding document) is one which has been: (i) included by the Bidder in its pre-qualification application or bid because it brings specific and critical experience and know-how that allow the Bidder to meet the qualification requirements for the particular bid; or (ii) appointed by the Borrower.

³ Inspections in this context usually are investigative (i.e., forensic) in nature. They involve fact-finding activities undertaken by the Bank or persons appointed by the Bank to address specific matters related to investigations/audits, such as evaluating the veracity of an allegation of possible Fraud and Corruption, through the appropriate mechanisms. Such activity includes but is not limited to: accessing and examining a firm's or individual's financial records and information, and making copies thereof as relevant; accessing and examining any other documents, data and information (whether in hard copy or electronic format) deemed relevant for the investigation/audit, and making copies thereof as relevant; interviewing staff and other relevant individuals; performing physical inspections and site visits; and obtaining third party verification of information.

to the procurement process, selection and/or contract execution, and to have them audited by auditors appointed by the Bank.

PART 2 – Supply Requirements

Section VII - Schedule of Requirements

1. List of Goods and Delivery Schedule

[The Procuring Agency shall fill in this table to enable the Bidder to prepare the Bid]

Line Item N°	Description of Goods	Indicative Quantity required over FA Term	Physical unit	Likely Destination (Project Site)	Likely Delivery Date (as per Incoterms)	Bid Security in Rs. ⁷	Deleted
<i>[insert item No]</i>	<i>[insert description of Goods]</i>	<i>[insert quantity of item to be supplied]</i>	<i>[insert physical unit for the quantity]</i>	<i>[insert place of Delivery]</i>	<i>[insert the number of days from placing the Call-off Contract]</i>		
01	Cleaning Grading & Sorting Unit 1 TPH (Semi-automatic)	92	92	Pls refer the Schedule 6	60	75,000.00	
02	Cleaning Grading & Sorting Unit 2-3 TPH (Semi-automatic)	16	16		60	17,000.00	
03	Cleaning Grading & Sorting Unit 1-2 TPH (Fully automatic)	92	92		90	4,30,000.00	
04	Cleaning Grading & Sorting Unit 3 TPH (Fully automatic)	11	11		120	72,000.00	
05	Cleaning Grading & Sorting Unit 4-5 TPH (Fully automatic)	65	65		120	12,00,000.00	

⁷ Bid security listed here shall be the same as provided under ITB/BDS 19.1.

2. List of Related Services and Completion Schedule

[This table shall be filled in by the Procuring Agency. The Required Completion Period should be realistic, and consistent with the required Goods Delivery Dates (as per Incoterms)]

Service	Description of Service	Indicative Quantity over FA period¹	Physical Unit	Likely Place where Services shall be performed	Final Completion Period of Services
<i>[insert Service No]</i>	<i>[insert description of Related Services]</i>	<i>[insert quantity of items to be supplied]</i>	<i>[insert physical unit for the items]</i>	<i>[insert name of the Place]</i>	<i>[insert no. of days from placing the Call-off Contract]</i>
01	Installation, Commissioning, Testing, training services for Cleaning Grading & Sorting Unit 1 TPH (Semi-automatic)	92	92	Pls refer the schedule 6	60
02	Installation, Commissioning, Testing, training services for Cleaning Grading & Sorting Unit 2-3 TPH (Semi-automatic)	16	16		60
03	Installation, Commissioning, Testing, training services for Cleaning Grading & Sorting Unit 1-2 TPH (Fully automatic)	92	92		90
04	Installation, Commissioning, Testing, training services for Cleaning Grading & Sorting Unit 3 TPH (Fully automatic)	11	11		120
05	Installation, Commissioning, Testing, training services for Cleaning Grading & Sorting Unit 4-5 TPH (Fully automatic)	65	65		120

1. If applicable

3. Technical Specifications

The purpose of the Technical Specifications (TS), is to define the technical characteristics of the Goods and Related Services required by the Procuring Agency. The Procuring Agency shall prepare the detailed TS take into account that:

- *The TS constitute the benchmarks against which the Procuring Agency will verify the technical responsiveness of Bids and subsequently evaluate the Bids. Therefore, well-defined TS will facilitate preparation of responsive Bids by Bidders, as well as examination, evaluation, and comparison of the Bids by the Procuring Agency.*
- *The TS shall require that all Goods and materials to be incorporated in the Goods be new, unused, and of the most recent or current models, and that they incorporate all recent improvements in design and materials, unless provided for otherwise in the contract.*
- *The TS shall make use of best practices. Samples of specifications from successful similar procurements in the same country or sector may provide a sound basis for drafting the TS.*
- *The TS shall make use of metric units.*
- *Standardizing technical specifications may be advantageous, depending on the complexity of the Goods and the repetitiveness of the type of procurement. Technical Specifications should be broad enough to avoid restrictions on workmanship, materials, and equipment commonly used in manufacturing similar kinds of Goods.*
- *Standards for equipment, materials, and workmanship specified in the RFB document shall not be restrictive. Recognized Indian standards should be specified as much as possible. Reference to brand names, catalogue numbers, or other details that limit any materials or items to a specific manufacturer should be avoided as far as possible. Where unavoidable, such item description should always be followed by the words “or substantially equivalent.” When other particular standards or codes of practice are referred to in the TS, a statement should follow other authoritative standards that ensure at least a substantially equal quality, then the standards mentioned in the TS will also be acceptable.*
- *Reference to brand names and catalogue numbers should be avoided as far as possible; where unavoidable the words “or at least equivalent” shall always follow such references.*
- *Technical Specifications shall be fully descriptive of the requirements in respect of, but not limited to, the following:*
 - (a) *Standards of materials and workmanship required for the production and manufacturing of the Goods.*
 - (b) *Detailed tests required (type and number).*
 - (c) *Other additional work and/or Related Services required to achieve full delivery/completion.*

- (d) *Detailed activities to be performed by the Supplier, and participation of the Procuring Agency thereon.*
- (e) *List of detailed functional guarantees covered by the Warranty and the specification of the liquidated damages to be applied in the event that such guarantees are not met.*

[The TS shall specify all essential technical and performance characteristics and requirements, including guaranteed or acceptable maximum or minimum values, as appropriate. Whenever necessary, the Procuring Agency shall include an additional ad-hoc Bid form (to be an Attachment to the Letter of Bid), where the Bidder shall provide detailed information on such technical performance characteristics in respect to the corresponding acceptable or guaranteed values.]

[When the Procuring Agency requests that the Bidder provides in its Bid a part or all of the Technical Specifications, technical schedules, or other technical information, the Procuring Agency shall specify in detail the nature and extent of the required information and the manner in which it has to be presented by the Bidder in its Bid.]

[If a summary of the Technical Specifications (TS) has to be provided, the Procuring Agency shall insert information in the table below. The Bidder shall prepare a similar table to justify compliance with the requirements]

Summary of Technical Specifications. *The Goods and Related Services shall comply with following Technical Specifications and Standards:*

Detailed Technical Specifications and Standards

Technical Specifications: Cleaning, Grading & Sorting Unit

Type - Semi-Automatic

Capacity - 1 TPH

Item No	Name of Goods / Related Service	Technical Specifications and Standards
01	Cleaning, Grading & Sorting Unit	
	Type	Semi-Automatic
	Capacity	1 TPH
	Function	Efficient primary cleaning, destoning, and basic grading of various pulse/cereals.
	Machine Material	Steel Construction, with Rubber or soft coating to seed hopper and all impact points.
	Power Source	40V, 3 Phase AC.
	Efficiency	Minimum 98% cleaning purity.
	Onsite comprehensive Warranty	Minimum one (1) year on all parts from the date of commissioning.
	Standard	Equipment must conform to relevant Bureau of Indian Standards (BIS) specifications for food processing machinery and safety. The machine should be based on models developed/recommended by national agricultural/food processing institutes (e.g., TNAU, PDKV, or similar ICAR/CFTRI designs)
	1 Cleaner	<p>The machine should be made of steel construction with compact and sturdy channel frame. It should be designed for suitable and efficient cleaning of various pulse/cereals crop.</p> <p>The machine have two/ Four flat vibratory/oscillating screens, Length of Screen- 2 to 3 times its width Input Capacity: 01 Ton/hr Wheat Basis perforation cleaning of top screen should be by beaters & bottom screens by nylon brushes, double aspiration variable shoe shake, 5 HP motor 440 V Crompton/ Equivalent. Screw Size Top 80 x 100 cm, Bottom 80 x 180 cm W x L. The machine should be regulated five level (Pneumatic lift) feed hopper dynamically balanced fan, air chamber screen deck and spouts should be self-cleaning type. No. of Aspirations: 02 Nos. pre & post aspirations Feed Roller: Steel roller dia. 80 mm for Uniform Seed Feeding on screens O. A. Size 356 x 175 x 285 cms (L x W x H) Complete with electric motor, starter switch, fitted with one set of screens and all other standard features.</p>

Item No	Name of Goods / Related Service	Technical Specifications and Standards
		<p>Rubber or soft coating to seeds hopper and all impact points in machine for smooth handling of grains. Supply: 440V, 3 Phase AC.</p> <p>(a) Air Trunk – 01 Set 100 cms long both ends flanged. Flanged are made of 25 x 25 x 3 mm angle iron.</p> <p>(b) Cyclone dust Collector - 01 Set The expansion chamber is made out of 1.6 mm M.S. Sheet with dust collection box and mounting stand.</p> <p>(c) Additional Sieves - 03 Set Screens are made of 0.8 mm with CPC perforated sheet and fitted on frame, suitably inclined. The screens are free from curvature and burrs.</p> <p>Should comply with relevant Bureau of Indian Standards (BIS) specifications for grain cleaners (e.g., IS 19039:2023 for millets/cleaners, where applicable).</p>
	1 Destoner/ Stone separator	<p>Is a form of specific gravity separator.</p> <ul style="list-style-type: none"> ● Rectangular type steel deck for greater capacity and accuracy, durability and ● quickly & easily interchangeable type. ● Fans are dynamically balanced with individually adjustable air control for each fan for precise control of air flow. ● Variable oscillation speed of deck in wide range with the help of VFD (Variable Frequency Drive). ● Variable inclination of deck side wise and length wise. ● Seed collecting spouts are rubber/soft coating fitted with bag holding clamps. ● Feeding Hopper with rubber/soft coating for uniform feeding on deck. ● Air filter windows with fine wire mesh. ● Overall Machine size: L – 2.05 M W – 1.36 M H – 1.30 M ● Deck size of machine: L – 1.58 M W – 0.90 M <p>Specification: Capacity: 01 Ton/hr Wheat Basis No. of fans: 03 Type of deck: Rectangular type, Perforated deck Electric Motor: 5 HP (Blower) and 1.5 HP (DECK OSCILLATION) 3Ph 50 cycle AC supply make Crompton/Siemens, CRCA (Cold Rolled Close Annealed) sheet for body with min thickness 4 mm for less sound and structural stability.</p>
	1 Aspirator	Function: Removes light impurities, chaff, and dust from the grain stream using controlled air velocity. Essential for both pre-

Item No	Name of Goods / Related Service	Technical Specifications and Standards															
		<p>cleaning and post-cleaning purification.</p> <p>Aspiration points: 02 Nos. (Pre & Post aspirations). Used before and after the screening process to maximize light impurity removal.</p> <p>Capacity (Air Flow): The system must be sized to match the machine's throughput: 1 Ton/hr (Wheat Basis).</p> <p>Fan Type: Dynamically balanced fan. Designed for efficient air movement and minimal vibration.</p> <p>Air Control: Air chamber, screen deck, and spouts should be self-cleaning type. The aspirator system requires fine-tuned regulation.</p> <p>Air Trunk: 01 Set. 100 cms long, both ends flanged. Flanges are made of 25 x 25 x 3 mm angle iron.</p> <p>Dust Collection: Cyclone dust Collector - 01 Set. The expansion chamber is made out of 1.6 mm M.S. Sheet with a dust collection box and mounting stand.</p> <p>Power Source: The fan and blower are powered by the unit's overall 440V, 3 Phase AC supply.</p> <table border="1" data-bbox="495 699 1948 1247"> <thead> <tr> <th data-bbox="495 699 800 756">Specification Category</th> <th data-bbox="800 699 1293 756">Parameter</th> <th data-bbox="1293 699 1948 756">Detailed Technical Specification</th> </tr> </thead> <tbody> <tr> <td data-bbox="495 756 800 846">Function</td> <td data-bbox="800 756 1293 846">Purpose</td> <td data-bbox="1293 756 1948 846">Removes dust, chaff, and light impurities from the grain stream using controlled air velocity.</td> </tr> <tr> <td data-bbox="495 846 800 1000">Air System</td> <td data-bbox="800 846 1293 1000">Aspiration Points. Fan Type Air Trunk</td> <td data-bbox="1293 846 1948 1000">02 Nos. (Pre- and post-cleaning aspiration) Dynamically balanced fan. 01 Set, 100 cms long, both ends flanged. Flanges are made of 25 x 25 x 3 mm angle iron</td> </tr> <tr> <td data-bbox="495 1000 800 1154">Dust Collection</td> <td data-bbox="800 1000 1293 1154">Dust Collector Chamber Material Expansion chamber is made out of 1.6 mm M.S. Sheet with a dust collection box and mounting stand.</td> <td data-bbox="1293 1000 1948 1154">Cyclone dust Collector - 01 Set.</td> </tr> <tr> <td data-bbox="495 1154 800 1247">Capacity</td> <td data-bbox="800 1154 1293 1247">Throughput</td> <td data-bbox="1293 1154 1948 1247">Air flow system must be sized to match the unit's 3 TPH capacity.</td> </tr> </tbody> </table>	Specification Category	Parameter	Detailed Technical Specification	Function	Purpose	Removes dust, chaff, and light impurities from the grain stream using controlled air velocity.	Air System	Aspiration Points. Fan Type Air Trunk	02 Nos. (Pre- and post-cleaning aspiration) Dynamically balanced fan. 01 Set, 100 cms long, both ends flanged. Flanges are made of 25 x 25 x 3 mm angle iron	Dust Collection	Dust Collector Chamber Material Expansion chamber is made out of 1.6 mm M.S. Sheet with a dust collection box and mounting stand.	Cyclone dust Collector - 01 Set.	Capacity	Throughput	Air flow system must be sized to match the unit's 3 TPH capacity.
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1 Grader		<p>Function: Final separation of pulses/cereals based on size, thickness, and quality. Removes oversized, undersized, and broken grains to ensure a uniform final product.</p> <p>Capacity: 1 TPH (1,000 kg/hr) based on Wheat basis.</p> <p>Type: High-efficiency Vibratory/Oscillating Screen Grader. Utilizes screens with specific apertures for precise sizing.</p>															

Item No	Name of Goods / Related Service	Technical Specifications and Standards												
		<p>Construction & Material:</p> <p>Overall Size (L x W x H): 316 x 146 x 256 cm (L x W x H).</p> <p>Construction: Made of steel construction with a compact and sturdy channel frame. Handling Material: Rubber or soft coating to the seed hopper and all impact points in the machine for smooth handling of grains.</p> <p>Screens: Two to three decks of flat, vibratory screens for multi-stage separation.</p> <p>Screen Dimensions: Screens must be appropriately sized for 1 TPH flow. Dimensions similar to those specified in the document (e.g., approximately 66 x 74.5 cms and 66 x 130 cms W x L) are required.</p> <p>Screen Inclination: Fixed inclination for both screens.</p> <p>Screen Perforation Cleaning: Top Screen: The Perforation cleaning device must be fixed with Beaters. Bottom Screen: Perforation cleaning device must be Nylon Brushes.</p> <p>Screen Cleaning: Nylon Brushes or fixed Bearers to ensure constant clearing of screen perforations and prevent choking.</p> <p>Motor Power: 5 HP motor (Estimated power for a dedicated 1 TPH grader).</p> <p>Aspiration System: No. of Aspiration Two distinct aspiration stages (for pre and post-grading air cleaning).</p> <p>Fan Type: Dynamically balanced fan.</p> <p>Fan Capacity: 4500 CFM at 75 mm WGSP (Water Gauge Static Pressure).</p> <p>Fan Speed: 980 RPM (Rotations Per Minute).</p> <p>Electrical & Power: Electric Motor: 5 HP, 3 Phase, 440 V Crompton/Equivalent. Fan Motor: Part of the main motor drive system or a dedicated motor sized for the fan capacity. Supply: 440V, 3 Phase AC supply.</p> <p>General Aperture:</p> <p>Size: Screen aperture sizes must be interchangeable and specifically selected according to the pulse/grain being processed (e.g., using tables for Mung Beans or Chick Peas).</p> <p>Features: Air chamber, screen deck, and spouts should be self-cleaning type.</p> <table border="1" data-bbox="495 1133 1948 1375"> <thead> <tr> <th data-bbox="495 1133 783 1190">Specification Category</th> <th data-bbox="783 1133 1171 1190">Parameter</th> <th data-bbox="1171 1133 1948 1190">Detailed Technical Specification</th> </tr> </thead> <tbody> <tr> <td data-bbox="495 1190 783 1279">Function</td> <td data-bbox="783 1190 1171 1279">Purpose</td> <td data-bbox="1171 1190 1948 1279">Final sizing and thickness separation to ensure uniformity and high quality of the final graded product.</td> </tr> <tr> <td data-bbox="495 1279 783 1336">Capacity</td> <td data-bbox="783 1279 1171 1336">Throughput</td> <td data-bbox="1171 1279 1948 1336">Must handle a continuous flow of 3 TPH.</td> </tr> <tr> <td data-bbox="495 1336 783 1375">Screening</td> <td data-bbox="783 1336 1171 1375">Type</td> <td data-bbox="1171 1336 1948 1375">High-efficiency Vibratory/Oscillating Screen Grader (Inferred from the</td> </tr> </tbody> </table>	Specification Category	Parameter	Detailed Technical Specification	Function	Purpose	Final sizing and thickness separation to ensure uniformity and high quality of the final graded product.	Capacity	Throughput	Must handle a continuous flow of 3 TPH .	Screening	Type	High-efficiency Vibratory/Oscillating Screen Grader (Inferred from the
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Item No	Name of Goods / Related Service	Technical Specifications and Standards		
			Screen Cleaning	detailed cleaner design). Perforation cleaning of screens by Bouncing rubber balls .
		Construction	Frame	Sturdy steel construction with compact channel frame.
		Motor	Power	Dedicated Electric Motor: 5 HP (Minimum, 3 Phase, 440 V) (Scaled from 1 TPH Grader).
	1 Weighing Balance at Platform	<p>Core Function & Capacity - Name of Component: 1 Weighing Balance at Platform</p> <p>Function: Measurement of bulk material (e.g., input raw material, cleaned product bags, or finished goods) at an elevated platform or ground level.</p> <p>Capacity (Minimum): 100 to 200 kg</p> <p>Type & Construction</p> <p>Type: Digital Platform Weighing Scale.</p> <p>Platform Size: Robust, heavy-duty checkered plate platform sized appropriately for industrial use (e.g., 2 x 2 ft minimum).</p> <p>Construction: Heavy-duty steel frame construction, suitable for continuous industrial environment.</p> <p>Measurement & Display</p> <p>Accuracy: High-precision load cells; accuracy should be +/-100 or better.</p> <p>Readability: High-contrast, clear digital display (LED/LCD) for easy reading by the operator.</p> <p>Display Location: Separate display unit with pole mount or table mount for convenient reading.</p> <p>Electrical & Power</p> <p>Power Source: Operation on 440V, 3 Phase AC or internal rechargeable battery with AC adapter.</p> <p>Protection: Protection against dust and moisture (IP54 rating minimum for industrial use).</p> <p>General</p> <p>Taring: Full range TARE function available.</p> <p>Calibration: Easy and accessible calibration mechanism.</p> <p>Standard: Must conform to relevant national weights and measures standards.</p>		
	General Installation	<p>Electric Control Panel: Centralized PCC/MCC (Motor Control Center) panel with safety interlocks and main circuit breakers.</p> <p>Iron & Steel Platforms: All required structural supports and platforms (MS) for machine mounting, operator access, and material flow must be included.</p> <p>Commissioning: Complete erection, testing, and commissioning of the entire plant must be provided by the supplier.</p>		
	Power and	<p>Electric Control Panel: Must be supplied with a centralized, dust-proof control panel with motor protection features (overload,</p>		

Item No	Name of Goods / Related Service	Technical Specifications and Standards
	Utilities	short-circuit). Piping & Ducting: All required iron and steel structural platforms, spouting, and dust collection ducting shall be included.

Size of aperture in a four-screen cleaner for some of the agricultural grains

Grain	Screen Size, mm (from top screen)			
	1	2	3	4
Wheat, plump	6.30	2.0 * 20	5.6, 3.6 × 20	2.2 * 20
Wheat, thin	5.6	1.8 * 20	5, 3.2 * 20	2.0 * 20
Maize, cleaning only	12.7	4.8	12	5.6
Paddy, long grain	5.6, 4.8	2.4, 2.6	5, 3.2 * 20	1.4 * 20
Paddy, short grain	5.6	2.4, 2.6	5, 3.2 * 20	1.8 * 20
Rye	4.8	1.4 * 20	4.8, 2.7 * 20	1.6 * 20
Safflower	7.0	3.2	4.4 * 20	24 * 20
Sesame	2.4	6.4 * 6.7	1.3 * 20	1.6, 2.4 * 9.5
Kidney (Red) Beans	12.0	5.2 * 20	11.0	5.5 * 20
Mung Beans (Green gram)	5.5	3.0	5.1	3.2 * 20
Chick Peas (Bengal gram)	12.0	4.4 * 20	10.3	4.8 * 20
Pigeon Peas	9.5	3.6 * 20	9.1	4.0 * 20
Lentils	7.1	4.0, 5.0	2.8 * 20	4.0, 5.0

Size of aperture in a two-screen cleaner for some of the agricultural grain/seeds

Grain	Top Sieve (scalper) mm	Bottom sieve (grader) mm
Wheat (bold)	5.0	2.0 * 20
Wheat (thin)	5.0	1.8 * 20
Maize, cleaning only	11, 12	6.3
Rice	4.8	5.6 * 5.6
Sorghum	5.0	2.0 * 20
Rye	4.8	1.6 * 20
Mustard (Pusa bold)	3.1	1.4
Linseed (T-59)	1.6 * 20	2.0

Grain	Top Sieve (scalper) mm	Bottom sieve (grader) mm
Safflower (TSE-1)	6.5	2.0 * 20
Sunflower (Mordon)	8.0	3.0
Pigeon pea and Bengal gram (bold)	8.0	3.2 * 20
Pigeon pea and Bengal gram (small)	6.5	3.2 * 20

Sieve Opening Size

SI No.	Crop	Screen Aperture Size in mm	
		Top Screen (3)	Bottom Screen (4)
i)	Sorghum/Jowar/Great millet	4.75 r	2.10 s, 3.50 r
ii)	Bajra/Pearl millet	3.25 r	1.30 s, 1.30 r, 1.40 r, 1.40 s, 1.60 r, 1.90 s
iii)	Finger millet/Ragi	3.25 r	1.40 s
iv)	Kodo millet	3.80 r	1.60 s, 2.00 r
v)	Foxtail millet	3.25 r	1.20 s, 1.30 r
vi)	Little millet	2.50 r	1.60 r
vii)	Proso/Common millet	3.80 r	1.60 s
viii)	Barnyard millet	3.25 r	1.40 s, 1.80 r
ix)	Browntop millet	3.25 r	1.2 × 20 oblong

NOTES
1 Here "r" stands for round hole and 's' stands for square slot.
2 The reference for this table was taken from minimum seed certification standards issued in 2013 by Central Seed Certification Board, Government of India, New Delhi.

Material of Construction

SI No. (1)	Component (2)	Material (3)	Reference to IS (4)
i)	Bearing housing/plumber block	Cast iron	210
ii)	Blower casing	Mild steel	2062
		Cast iron	210
		Mild steel	2062
iii)	Blower impeller (blade holder)	Cast iron	210
iv)	Bottom and top drum of elevator	Cast iron	210
v)	Bucket/cups	Mild steel	2062
		Plastic	-
vi)	Elevator body/frame	Mild steel	2062
		Wood	399
vii)	Feed hopper	Mild steel	2062
		Stainless steel (SS 304)	6911
viii)	Feed roll	Cast iron	210
ix)	Feed rate/distribution plates	Mild steel	2062
		Stainless steel (SS 304)	6911
x)	Frame	Mild steel	2062
		Galvanized iron	277
xi)	Gears	High carbon steel	-
xii)	Cam	High carbon steel	-
xiii)	Hand wheels/adjustment levers	Cast iron	210
		Mild steel	2062
xiv)	Plummer block	Cast iron	210
xv)	Pullies	Cast iron	210
		Mild steel	2062
xvi)	Screens/sieves	Mild steel	2062
		Galvanized iron	277
		Stainless steel (SS 304)	6911
xvii)	Shafts	Mild steel	2062
xviii)	Sieve frame	Mild steel	2062
		wood	399

Technical Specifications: Cleaning, Grading & Sorting Unit

Type - Semi-Automatic

Capacity - 2-3 TPH

Item No	Name of Goods or Related Service	Technical Specifications and Standards
02	Cleaning, Grading & Sorting Unit	
	Type	Semi-Automatic
	Capacity	2 -3 TPH
	Onsite comprehensive Warranty	Minimum one (1) year on all parts from the date of commissioning.
	1 Cleaner cum Destoner	<p>The machine should be made of steel construction with compact and sturdy channel frame. It should be designed for suitable and efficient cleaning of various pulse/cereals crop.</p> <p>The machine have two/ Four flat vibratory/oscillating screens, Length of Screen- 2 to 3 times its width Input Capacity: 01 Ton/hr Wheat Basis perforation cleaning of top screen should be by beaters & bottom screens by nylon brushes, double aspiration variable shoe shake, 5 HP motor 440 V Crompton/ Equivalent. Screw Size Top 80 x 100 cm, Bottom 80 x 180 cm W x L. The machine should be regulated five level (Pneumatic lift) feed hopper dynamically balanced fan, air chamber screen deck and spouts should be self-cleaning type. No. of Aspirations: 02 Nos. pre & post aspirations Feed Roller: Steel roller dia. 80 mm for Uniform Seed Feeding on screens O. A. Size 356 x 175 x 285 cms (L x W x H) Complete with electric motor, starter switch, fitted with one set of screens and all other standard features. Rubber or soft coating to seeds hopper and all impact points in machine for smooth handling of grains. Supply: 440V, 3 Phase AC.</p> <p>(d) Air Trunk – 01 Set 100 cms long both ends flanged. Flanged are made of 25 x 25 x 3 mm angle iron.</p> <p>(e) Cyclone dust Collector - 01 Set The expansion chamber is made out of 1.6 mm M.S. Sheet with dust collection box and mounting stand.</p> <p>(f) Additional Sieves - 03 Set Screens are made of 0.8 mm with CPC perforated sheet and fitted on seasoned hard wood frame, suitably inclined. The screens are free from curvature and burrs. Should comply with relevant Bureau of Indian Standards (BIS) specifications for grain cleaners (e.g., IS 19039:2023 for</p>

Item No	Name of Goods or Related Service	Technical Specifications and Standards																	
		millets/cleaners, where applicable).																	
	1 Aspirator	<p>Function: Removes light impurities, chaff, and dust from the grain stream using controlled air velocity. Essential for both pre-cleaning and post-cleaning purification.</p> <p>Aspiration points: 02 Nos. (Pre & Post aspirations). Used before and after the screening process to maximize light impurity removal.</p> <p>Capacity (Air Flow): The system must be sized to match the machine's throughput: 1 Ton/hr (Wheat Basis).</p> <p>Fan Type: Dynamically balanced fan. Designed for efficient air movement and minimal vibration.</p> <p>Air Control: Air chamber, screen deck, and spouts should be self-cleaning type. The aspirator system requires fine-tuned regulation.</p> <p>Air Trunk: 01 Set. 100 cms long, both ends flanged. Flanges are made of 25 x 25 x 3 mm angle iron.</p> <p>Dust Collection: Cyclone dust Collector - 01 Set. The expansion chamber is made out of 1.6 mm M.S. Sheet with a dust collection box and mounting stand.</p> <p>Power Source: The fan and blower are powered by the unit's overall 440V, 3 Phase AC supply.</p> <table border="1" data-bbox="583 773 1934 1321"> <thead> <tr> <th data-bbox="583 773 886 833">Specification Category</th> <th data-bbox="886 773 1381 833">Parameter</th> <th data-bbox="1381 773 1934 833">Detailed Technical Specification</th> </tr> </thead> <tbody> <tr> <td data-bbox="583 833 886 922">Function</td> <td data-bbox="886 833 1381 922">Purpose</td> <td data-bbox="1381 833 1934 922">Removes dust, chaff, and light impurities from the grain stream using controlled air velocity.</td> </tr> <tr> <td data-bbox="583 922 886 1076">Air System</td> <td data-bbox="886 922 1381 1076">Aspiration Points. Fan Type Air Trunk</td> <td data-bbox="1381 922 1934 1076">02 Nos. (Pre- and post-cleaning aspiration) Dynamically balanced fan. 01 Set, 100 cms long, both ends flanged. Flanges are made of 25 x 25 x 3 mm angle iron</td> </tr> <tr> <td data-bbox="583 1076 886 1230">Dust Collection</td> <td data-bbox="886 1076 1381 1230">Dust Collector Chamber Material Expansion chamber is made out of 1.6 mm M.S. Sheet with a dust collection box and mounting stand.</td> <td data-bbox="1381 1076 1934 1230">Cyclone dust Collector - 01 Set.</td> </tr> <tr> <td data-bbox="583 1230 886 1321">Capacity</td> <td data-bbox="886 1230 1381 1321">Throughput</td> <td data-bbox="1381 1230 1934 1321">Air flow system must be sized to match the unit's 3 TPH capacity.</td> </tr> </tbody> </table>			Specification Category	Parameter	Detailed Technical Specification	Function	Purpose	Removes dust, chaff, and light impurities from the grain stream using controlled air velocity.	Air System	Aspiration Points. Fan Type Air Trunk	02 Nos. (Pre- and post-cleaning aspiration) Dynamically balanced fan. 01 Set, 100 cms long, both ends flanged. Flanges are made of 25 x 25 x 3 mm angle iron	Dust Collection	Dust Collector Chamber Material Expansion chamber is made out of 1.6 mm M.S. Sheet with a dust collection box and mounting stand.	Cyclone dust Collector - 01 Set.	Capacity	Throughput	Air flow system must be sized to match the unit's 3 TPH capacity.
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	1 Magnetic Separator	<table border="1" data-bbox="583 1321 1934 1383"> <thead> <tr> <th data-bbox="583 1321 886 1383">Specification Category</th> <th data-bbox="886 1321 1050 1383">Parameter</th> <th data-bbox="1050 1321 1934 1383">Detailed Technical Specification</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Specification Category	Parameter	Detailed Technical Specification														
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Item No	Name of Goods or Related Service	Technical Specifications and Standards		
		Function	Purpose	Removes metallic impurities (ferrous/paramagnetic) which are essential to prevent damage to downstream processing machinery and ensure food safety.
		Capacity	Throughput	Must handle a continuous flow of 3 TPH .
		Type	Mechanism	Drum or Belt type high-intensity permanent magnet separator (Inferred from Item 04/05 inclusion).
		Magnetism	Strength	High magnetic field strength to ensure separation of minute ferrous particles.
		Construction	Material	Made of sturdy steel construction with a non-magnetic housing for the magnetic field.
	1 Indented Cylinder	<p>The indented cylinder separator consists of a rotating cylinder and an adjustable trough. The inner surface of the cylinder has closely spaced indents. The seed mass to be handled is fed at one end and lies at the bottom of the cylinder. As the cylinder rotates on its axis the short seeds are lifted from the mixture by indents. Thus at some point before reaching the top of the rotation, the seeds fallout from the indents, because of the tilting of the later. Actually, the seeds resting in the indents lose balance and are eventually received in the adjustable trough from where they are conveyed out by an auger. The long seed which is not lifted by the indents gradually move through the cylinder end are discharged to a separate spout at the other end of the cylinder. The quality of separation depends on the position of the trough and the speed of the cylinder.</p>		
		Specification Category	Parameter	Detailed Technical Specification
		Function	Purpose	Separates seeds based on length (e.g., broken grains from whole grains, or weed seeds).
		Principle	Mechanism Separation	Consists of a rotating cylinder with closely spaced indents on the inner surface. Short seeds are lifted by indents and received in an adjustable trough . Long seeds are discharged at the cylinder end.
		Capacity	Throughput	Must handle a continuous flow of 2-3 TPH .
		Control	Adjustment	Separation quality depends on the position of the trough and the speed of the cylinder.

Item No	Name of Goods or Related Service	Technical Specifications and Standards		
		Discharge	Conveyance	Trough should be conveyed out by an auger .
1 Grader		<p>Function: Final separation of pulses/cereals based on size, thickness, and quality. Removes oversized, undersized, and broken grains to ensure a uniform final product.</p> <p>Capacity: 1 TPH (1,000 kg/hr) based on Wheat basis.</p> <p>Type: High-efficiency Vibratory/Oscillating Screen Grader. Utilizes screens with specific apertures for precise sizing.</p> <p>Construction & Material:</p> <p>Overall Size (L x W x H): 316 x 146 x 256 cm (L x W x H).</p> <p>Construction: Made of steel construction with a compact and sturdy channel frame. Handling Material: Rubber or soft coating to the seed hopper and all impact points in the machine for smooth handling of grains.</p> <p>Screens: Two to three decks of flat, vibratory screens for multi-stage separation.</p> <p>Screen Dimensions: Screens must be appropriately sized for 1 TPH flow. Dimensions similar to those specified in the document (e.g., approximately 66 x 74.5 cms and 66 x 130 cms W x L) are required.</p> <p>Screen Inclination: Fixed inclination for both screens.</p> <p>Screen Perforation Cleaning: Top Screen: The Perforation cleaning device must be fixed with Beaters.</p> <p style="padding-left: 40px;">Bottom Screen: Perforation cleaning device must be Nylon Brushes.</p> <p>Screen Cleaning: Nylon Brushes or fixed Bearers to ensure constant clearing of screen perforations and prevent choking.</p> <p>Motor Power: 5 HP motor (Estimated power for a dedicated 1 TPH grader).</p> <p>Aspiration System: No. of AspirationTwo distinct aspiration stages (for pre and post-grading air cleaning).</p> <p>Fan Type: Dynamically balanced fan.</p> <p>Fan Capacity: 4500 CFM at 75 mm WGSP (Water Gauge Static Pressure).</p> <p>Fan Speed: 980 RPM (Rotations Per Minute).</p> <p>Electrical & Power: Electric Motor: 5 HP, 3 Phase, 440 V Crompton/Equivalent.</p> <p style="padding-left: 40px;">Fan Motor: Part of the main motor drive system or a dedicated motor sized for the fan capacity.</p> <p style="padding-left: 40px;">Supply: 440V, 3 Phase AC supply.</p> <p>General Aperture:</p> <p>Size: Screen aperture sizes must be interchangeable and specifically selected according to the pulse/grain being processed (e.g., using tables for Mung Beans or Chick Peas).</p> <p>Features: Air chamber, screen deck, and spouts should be self-cleaning type.</p>		
		Specification Category	Parameter	Detailed Technical Specification

Item No	Name of Goods or Related Service	Technical Specifications and Standards		
		Function	Purpose	Final sizing and thickness separation to ensure uniformity and high quality of the final graded product.
		Capacity	Throughput	Must handle a continuous flow of 3 TPH .
		Screening	Type Screen Cleaning	High-efficiency Vibratory/Oscillating Screen Grader (Inferred from the detailed cleaner design). Perforation cleaning of screens by Bouncing rubber balls .
		Construction	Frame	Sturdy steel construction with compact channel frame.
		Motor	Power	Dedicated Electric Motor: 5 HP (Minimum, 3 Phase, 440 V) (Scaled from 1 TPH Grader).
	1 Weighing Balance at Platform	<p>Core Function & Capacity Name of Component: 1 Weighing Balance at Platform Function: Measurement of bulk material (e.g., input raw material, cleaned product bags, or finished goods) at an elevated platform or ground level. Capacity (Minimum): 200 to 250 kg Type & Construction Type: Digital Platform Weighing Scale. Platform Size: Robust, heavy-duty checkered plate platform sized appropriately for industrial use (e.g., 3 x 3 ft). Construction: Heavy-duty steel frame construction, suitable for continuous industrial environment. Measurement & Display Accuracy: High-precision load cells; accuracy should be +/-100 or better. Readability: High-contrast, clear digital display (LED/LCD) for easy reading by the operator. Display Location: Separate display unit with pole mount or table mount for convenient reading. Electrical & Power Power Source: Operation on 440V, 3 Phase AC or internal rechargeable battery with AC adapter. Protection: Protection against dust and moisture (IP54 rating minimum for industrial use). General Taring: Full range TARE function available. Calibration: Easy and accessible calibration mechanism.</p>		

Item No	Name of Goods or Related Service	Technical Specifications and Standards
		Standard: Must conform to relevant national weights and measures standards.
	1 Fork Lift (Optional)	Function: Used for efficient handling and movement of raw material bags, finished product, and heavy components within the plant area. Quantity: 1 Type: Electric or Diesel Forklift; Minimum 1.5 to 2.0 Ton capacity.
	General Installation	Electric Control Panel: Centralized PCC/MCC (Motor Control Center) panel with safety interlocks and main circuit breakers. Iron & Steel Platforms: All required structural supports and platforms (MS) for machine mounting, operator access, and material flow must be included. Commissioning: Complete erection, testing, and commissioning of the entire plant must be provided by the supplier.
	Power and Utilities	Electric Control Panel: Must be supplied with a centralized, dust-proof control panel with motor protection features (overload, short-circuit). Piping & Ducting: All required iron and steel structural platforms, spouting, and dust collection ducting shall be included.

Size of aperture in a four-screen cleaner for some of the agricultural grains

Grain	Screen Size, mm (from top screen)			
	1	2	3	4
Wheat, plump	6.30	2.0 * 20	5.6, 3.6 × 20	2.2 * 20
Wheat, thin	5.6	1.8 * 20	5, 3.2 * 20	2.0 * 20
Maize, cleaning only	12.7	4.8	12	5.6
Paddy, long grain	5.6, 4.8	2.4, 2.6	5, 3.2 * 20	1.4 * 20
Paddy, short grain	5.6	2.4, 2.6	5, 3.2 * 20	1.8 * 20
Rye	4.8	1.4 * 20	4.8, 2.7 * 20	1.6 * 20
Safflower	7.0	3.2	4.4 * 20	24 * 20
Sesame	2.4	6.4 * 6.7	1.3 * 20	1.6, 2.4 * 9.5
Kidney (Red) Beans	12.0	5.2 * 20	11.0	5.5 * 20
Mung Beans (Green gram)	5.5	3.0	5.1	3.2 * 20
Chick Peas (Bengal gram)	12.0	4.4 * 20	10.3	4.8 * 20
Pigeon Peas	9.5	3.6 * 20	9.1	4.0 * 20
Lentils	7.1	4.0, 5.0	2.8 * 20	4.0, 5.0

Size of aperture in a two-screen cleaner for some of the agricultural grain/seeds

Grain	Top Sieve (scalper) mm	Bottom sieve (grader) mm
Wheat (bold)	5.0	2.0 * 20
Wheat (thin)	5.0	1.8 * 20
Maize, cleaning only	11, 12	6.3
Rice	4.8	5.6 * 5.6
Sorghum	5.0	2.0 * 20
Rye	4.8	1.6 * 20
Mustard (Pusa bold)	3.1	1.4
Linseed (T-59)	1.6 * 20	2.0
Safflower (TSE-1)	6.5	2.0 * 20
Sunflower (Mordon)	8.0	3.0
Pigeon pea and Bengal gram (bold)	8.0	3.2 * 20
Pigeon pea and Bengal gram (small)	6.5	3.2 * 20

Sieve Opening Size

SI No.	Crop	Screen Aperture Size in mm	
		Top Screen (3)	Bottom Screen (4)
i)	Sorghum/Jowar/Great millet	4.75 r	2.10 s, 3.50 r
ii)	Bajra/Pearl millet	3.25 r	1.30 s, 1.30 r, 1.40 r, 1.40 s, 1.60 r, 1.90 s
iii)	Finger millet/Ragi	3.25 r	1.40 s
iv)	Kodo millet	3.80 r	1.60 s, 2.00 r
v)	Foxtail millet	3.25 r	1.20 s, 1.30 r
vi)	Little millet	2.50 r	1.60 r
vii)	Proso/Common millet	3.80 r	1.60 s
viii)	Barnyard millet	3.25 r	1.40 s, 1.80 r
ix)	Browntop millet	3.25 r	1.2 × 20 oblong

NOTES
1 Here "r" stands for round hole and 's' stands for square slot.
2 The reference for this table was taken from minimum seed certification standards issued in 2013 by Central Seed Certification Board, Government of India, New Delhi.

Material of Construction

SI No. (1)	Component (2)	Material (3)	Reference to IS (4)
i)	Bearing housing/plumber block	Cast iron	210
ii)	Blower casing	Mild steel	2062
		Cast iron	210
		Mild steel	2062
iii)	Blower impeller (blade holder)	Cast iron	210
iv)	Bottom and top drum of elevator	Cast iron	210
v)	Bucket/cups	Mild steel	2062
		Plastic	-
vi)	Elevator body/frame	Mild steel	2062
		Wood	399
vii)	Feed hopper	Mild steel	2062
		Stainless steel (SS 304)	6911
viii)	Feed roll	Cast iron	210
ix)	Feed rate/distribution plates	Mild steel	2062
		Stainless steel (SS 304)	6911
x)	Frame	Mild steel	2062
		Galvanized iron	277
xi)	Gears	High carbon steel	-
xii)	Cam	High carbon steel	-
xiii)	Hand wheels/adjustment levers	Cast iron	210
		Mild steel	2062
xiv)	Plummer block	Cast iron	210
xv)	Pullies	Cast iron	210
		Mild steel	2062
xvi)	Screens/sieves	Mild steel	2062
		Galvanized iron	277
		Stainless steel (SS 304)	6911
xvii)	Shafts	Mild steel	2062
xviii)	Sieve frame	Mild steel	2062
		wood	399

Technical Specifications: Cleaning, Grading & Sorting Unit

Type - Fully Automatic

Capacity - 1-2 TPH

Item No	Name of Goods/ Related Service	Technical Specifications and Standards
03	Cleaning, Grading & Sorting Unit	
	Type	Fully Automatic
	Capacity	1-2 TPH
	Onsite comprehensive Warranty	Minimum one (1) year on all parts from the date of commissioning.
	1 Cleaner	<p>The machine should be made of steel construction with compact and sturdy channel frame. It should be designed for suitable and efficient cleaning of various pulse/cereals crop.</p> <p>The machine have two/ Four flat vibratory/oscillating screens, Length of Screen- 2 to 3 times its width Input Capacity: 01 Ton/hr Wheat Basis perforation cleaning of top screen should be by beaters & bottom screens by nylon brushes, double aspiration variable shoe shake, 5 HP motor 440 V Crompton/ Equivalent. Screw Size Top 80 x 100 cm, Bottom 80 x 180 cm W x L. The machine should be regulated five level (Pneumatic lift) feed hopper dynamically balanced fan, air chamber screen deck and spouts should be self-cleaning type. No. of Aspirations: 02 Nos. pre & post aspirations Feed Roller: Steel roller dia. 80 mm for Uniform Seed Feeding on screens O. A. Size 356 x 175 x 285 cms (L x W x H) Complete with electric motor, starter switch, fitted with one set of screens and all other standard features. Rubber or soft coating to seeds hopper and all impact points in machine for smooth handling of grains. Supply: 440V, 3 Phase AC.</p> <p>(g) Air Trunk – 01 Set 100 cms long both ends flanged. Flanged are made of 25 x 25 x 3 mm angle iron.</p> <p>(h) Cyclone dust Collector - 01 Set The expansion chamber is made out of 1.6 mm M.S. Sheet with dust collection box and mounting stand.</p> <p>(i) Additional Sieves - 03 Set Screens are made of 0.8 mm with CPC perforated sheet and fitted on seasoned hard wood frame, suitably inclined. The screens are free from curvature and burrs.</p>

Item No	Name of Goods/ Related Service	Technical Specifications and Standards
		Should comply with relevant Bureau of Indian Standards (BIS) specifications for grain cleaners (e.g., IS 19039:2023 for millets/cleaners , where applicable).
	1 Destoner	<p>Is a form of specific gravity separator.</p> <ul style="list-style-type: none"> ● Rectangular type steel deck for greater capacity and accuracy, durability and ● quickly & easily interchangeable type. ● Fans are dynamically balanced with individually adjustable air control for each fan for precise control of air flow. ● Variable oscillation speed of deck in wide range with the help of VFD (Variable Frequency Drive). ● Variable inclination of deck side wise and length wise. ● Seed collecting spouts are rubber/soft coating fitted with bag holding clamps. ● Feeding Hopper with rubber/soft coating for uniform feeding on deck. ● Air filter windows with fine wire mesh. ● Overall Machine size: L – 2.05 M W – 1.36 M H – 1.30 M ● Deck size of machine: L – 1.58 M W – 0.90 M <p>Specification: Capacity: 01 Ton/hr Wheat Basis No. of fans: 03 Type of deck: Rectangular type, Perforated deck Electric Motor: 5 HP (Blower) and 1.5 HP (DECK OSCILLATION) 3Ph 50 cycle AC supply make Crompton/Siemens, CRCA (Cold Rolled Close Annealed) sheet for body with min thickness 4 mm for less sound and structural stability.</p>
	1 Aspirator	<p>Function: Removes light impurities, chaff, and dust from the grain stream using controlled air velocity. Essential for both pre-cleaning and post-cleaning purification.</p> <p>Aspiration points: 02 Nos. (Pre & Post aspirations). Used before and after the screening process to maximize light impurity removal.</p> <p>Capacity (Air Flow): The system must be sized to match the machine's throughput: 1 Ton/hr (Wheat Basis).</p> <p>Fan Type: Dynamically balanced fan. Designed for efficient air movement and minimal vibration.</p> <p>Air Control: Air chamber, screen deck, and spouts should be self-cleaning type. The aspirator system requires fine-tuned regulation.</p> <p>Air Trunk: 01 Set. 100 cms long, both ends flanged. Flanges are made of 25 x 25 x 3 mm angle iron.</p> <p>Dust Collection: Cyclone dust Collector - 01 Set. The expansion chamber is made out of 1.6 mm M.S. Sheet with a dust</p>

Item No	Name of Goods/ Related Service	Technical Specifications and Standards		
		collection box and mounting stand. Power Source: The fan and blower are powered by the unit's overall 440V, 3 Phase AC supply.		
		Specification Category	Parameter	Detailed Technical Specification
		Function	Purpose	Removes dust, chaff, and light impurities from the grain stream using controlled air velocity.
		Air System	Aspiration Points. Fan Type Air Trunk	02 Nos. (Pre- and post-cleaning aspiration) Dynamically balanced fan. 01 Set, 100 cms long, both ends flanged. Flanges are made of 25 x 25 x 3 mm angle iron
		Dust Collection	Dust Collector Chamber Material Expansion chamber is made out of 1.6 mm M.S. Sheet with a dust collection box and mounting stand.	Cyclone dust Collector - 01 Set.
		Capacity	Throughput	Air flow system must be sized to match the unit's 3 TPH capacity.
1 Grader		<p>Function: Final separation of pulses/cereals based on size, thickness, and quality. Removes oversized, undersized, and broken grains to ensure a uniform final product.</p> <p>Capacity: 1 TPH (1,000 kg/hr) based on Wheat basis.</p> <p>Type: High-efficiency Vibratory/Oscillating Screen Grader. Utilizes screens with specific apertures for precise sizing.</p> <p>Construction & Material:</p> <p>Overall Size (L x W x H): 316 x 146 x 256 cm (L x W x H).</p> <p>Construction: Made of steel construction with a compact and sturdy channel frame. Handling Material: Rubber or soft coating to the seed hopper and all impact points in the machine for smooth handling of grains.</p> <p>Screens: Two to three decks of flat, vibratory screens for multi-stage separation.</p> <p>Screen Dimensions: Screens must be appropriately sized for 1 TPH flow. Dimensions similar to those specified in the document (e.g., approximately 66 x 74.5 cms and 66 x 130 cms W x L) are required.</p> <p>Screen Inclination: Fixed inclination for both screens.</p> <p>Screen Perforation Cleaning: Top Screen: The Perforation cleaning device must be fixed with Beaters.</p>		

Item No	Name of Goods/ Related Service	Technical Specifications and Standards																		
		<p style="text-align: center;">Bottom Screen: Perforation cleaning device must be Nylon Brushes.</p> <p>Screen Cleaning: Nylon Brushes or fixed Beaters to ensure constant clearing of screen perforations and prevent choking.</p> <p>Motor Power: 5 HP motor (Estimated power for a dedicated 1 TPH grader).</p> <p>Aspiration System: No. of AspirationTwo distinct aspiration stages (for pre and post-grading air cleaning).</p> <p>Fan Type: Dynamically balanced fan.</p> <p>Fan Capacity: 4500 CFM at 75 mm WGSP (Water Gauge Static Pressure).</p> <p>Fan Speed: 980 RPM (Rotations Per Minute).</p> <p>Electrical & Power: Electric Motor: 5 HP, 3 Phase, 440 V Crompton/Equivalent.</p> <p style="padding-left: 40px;">Fan Motor: Part of the main motor drive system or a dedicated motor sized for the fan capacity.</p> <p style="padding-left: 40px;">Supply: 440V, 3 Phase AC supply.</p> <p>General Aperture:</p> <p>Size: Screen aperture sizes must be interchangeable and specifically selected according to the pulse/grain being processed (e.g., using tables for Mung Beans or Chick Peas).</p> <p>Features: Air chamber, screen deck, and spouts should be self-cleaning type.</p> <table border="1" data-bbox="548 808 1896 1336"> <thead> <tr> <th data-bbox="548 808 850 873">Specification Category</th> <th data-bbox="850 808 1115 873">Parameter</th> <th data-bbox="1115 808 1896 873">Detailed Technical Specification</th> </tr> </thead> <tbody> <tr> <td data-bbox="548 873 850 971">Function</td> <td data-bbox="850 873 1115 971">Purpose</td> <td data-bbox="1115 873 1896 971">Final sizing and thickness separation to ensure uniformity and high quality of the final graded product.</td> </tr> <tr> <td data-bbox="548 971 850 1036">Capacity</td> <td data-bbox="850 971 1115 1036">Throughput</td> <td data-bbox="1115 971 1896 1036">Must handle a continuous flow of 3 TPH.</td> </tr> <tr> <td data-bbox="548 1036 850 1174">Screening</td> <td data-bbox="850 1036 1115 1174">Type Screen Cleaning</td> <td data-bbox="1115 1036 1896 1174">High-efficiency Vibratory/Oscillating Screen Grader (Inferred from the detailed cleaner design). Perforation cleaning of screens by Bouncing rubber balls.</td> </tr> <tr> <td data-bbox="548 1174 850 1239">Construction</td> <td data-bbox="850 1174 1115 1239">Frame</td> <td data-bbox="1115 1174 1896 1239">Sturdy steel construction with compact channel frame.</td> </tr> <tr> <td data-bbox="548 1239 850 1336">Motor</td> <td data-bbox="850 1239 1115 1336">Power</td> <td data-bbox="1115 1239 1896 1336">Dedicated Electric Motor: 5 HP (Minimum, 3 Phase, 440 V) (Scaled from 1 TPH Grader).</td> </tr> </tbody> </table>	Specification Category	Parameter	Detailed Technical Specification	Function	Purpose	Final sizing and thickness separation to ensure uniformity and high quality of the final graded product.	Capacity	Throughput	Must handle a continuous flow of 3 TPH .	Screening	Type Screen Cleaning	High-efficiency Vibratory/Oscillating Screen Grader (Inferred from the detailed cleaner design). Perforation cleaning of screens by Bouncing rubber balls .	Construction	Frame	Sturdy steel construction with compact channel frame.	Motor	Power	Dedicated Electric Motor: 5 HP (Minimum, 3 Phase, 440 V) (Scaled from 1 TPH Grader).
Specification Category	Parameter	Detailed Technical Specification																		
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Construction	Frame	Sturdy steel construction with compact channel frame.																		
Motor	Power	Dedicated Electric Motor: 5 HP (Minimum, 3 Phase, 440 V) (Scaled from 1 TPH Grader).																		
	1 Fork Lift	Function: Used for efficient handling and movement of raw material bags, finished product, and heavy components within the plant area.																		

Item No	Name of Goods/ Related Service	Technical Specifications and Standards
		<p>Quantity: 1 Type: Electric or Diesel Forklift; Minimum 1.5 to 2.0 Ton capacity.</p>
	1 Weighing Balance at Platform	<p>Core Function & Capacity Name of Component: 1 Weighing Balance at Platform Function: Measurement of bulk material (e.g., input raw material, cleaned product bags, or finished goods) at an elevated platform or ground level. Capacity (Minimum): 100 to 200 kg Type & Construction Type: Digital Platform Weighing Scale. Platform Size: Robust, heavy-duty checkered plate platform sized appropriately for industrial use (e.g., 2x 2 ft minimum). Construction: Heavy-duty steel frame construction, suitable for continuous industrial environment. Measurement & Display Accuracy: High-precision load cells; accuracy should be +/-100 or better. Readability: High-contrast, clear digital display (LED/LCD) for easy reading by the operator. Display Location: Separate display unit with pole mount or table mount for convenient reading. Electrical & Power Power Source: Operation on 440V, 3 Phase AC or internal rechargeable battery with AC adapter. Protection: Protection against dust and moisture (IP54 rating minimum for industrial use). General Taring: Full range TARE function available. Calibration: Easy and accessible calibration mechanism. Standard: Must conform to relevant national weights and measures standards.</p>
	2 Bucket Elevators	<p>Single leg bucket elevator consisting of receiving hopper, boot, bucket, belt, boot pulley, leg, head pulley, motor, drive and discharge spout will be used for conveying seed from one machine to another machine. It will lift the seed from the ground vertically upward and discharge it from top to the different machines. Spaced - Bucket centrifugal discharge type: used to move the grain from one machine to the next for continuous operation. Main Parts: Elevator head section, Boot section, Legs, Belt, Bucket Elevator head section: to avoid back logging an adjustable cut off plate should be provided close to lip of bucket. Boot section: should be of bolted assembly to allow for proper maintenance and replacement of pulley, shaft and other</p>

Item No	Name of Goods/ Related Service	Technical Specifications and Standards
		<p>accessories.</p> <p>Elevator legs: should have service access for installation of new belt for inspection of belt and for replacement of damped bucket and shortening of belt should be provided at one and two levels.</p> <p>Belt width: should be 25 mm wider than bucket width</p> <p>Pulley width: should be 80 to 100 mm wider than belt width</p> <p>Inside casing width: should be 150 – 200 mm wider than belt</p> <p>Bucket lip clearance: should be 100 to 130 mm</p> <p>Bucket top angle 80 degree</p> <p>Bucket bottom angle 20 to 30 degree</p>
	General Installation	<p>Electric Control Panel: Centralized PCC/MCC (Motor Control Center) panel with safety interlocks and main circuit breakers.</p> <p>Iron & Steel Platforms: All required structural supports and platforms (MS) for machine mounting, operator access, and material flow must be included.</p> <p>Commissioning: Complete erection, testing, and commissioning of the entire plant must be provided by the supplier.</p>
	Power and Utilities	<p>Electric Control Panel: Must be supplied with a centralized, dust-proof control panel with motor protection features (overload, short-circuit).</p> <p>Piping & Ducting: All required iron and steel structural platforms, spouting, and dust collection ducting shall be included.</p>

Size of aperture in a four-screen cleaner for some of the agricultural grains

Grain	Screen Size, mm (from top screen)			
	1	2	3	4
Wheat, plump	6.30	2.0 * 20	5.6, 3.6 × 20	2.2 * 20
Wheat, thin	5.6	1.8 * 20	5, 3.2 * 20	2.0 * 20
Maize, cleaning only	12.7	4.8	12	5.6
Paddy, long grain	5.6, 4.8	2.4, 2.6	5, 3.2 * 20	1.4 * 20
Paddy, short grain	5.6	2.4, 2.6	5, 3.2 * 20	1.8 * 20
Rye	4.8	1.4 * 20	4.8, 2.7 * 20	1.6 * 20
Safflower	7.0	3.2	4.4 * 20	24 * 20
Sesame	2.4	6.4 * 6.7	1.3 * 20	1.6, 2.4 * 9.5
Kidney (Red) Beans	12.0	5.2 * 20	11.0	5.5 * 20
Mung Beans (Green gram)	5.5	3.0	5.1	3.2 * 20
Chick Peas (Bengal gram)	12.0	4.4 * 20	10.3	4.8 * 20
Pigeon Peas	9.5	3.6 * 20	9.1	4.0 * 20
Lentils	7.1	4.0, 5.0	2.8 * 20	4.0, 5.0

Size of aperture in a two-screen cleaner for some of the agricultural grain/seeds

Grain	Top Sieve (scalper) mm	Bottom sieve (grader) mm
Wheat (bold)	5.0	2.0 * 20
Wheat (thin)	5.0	1.8 * 20
Maize, cleaning only	11, 12	6.3
Rice	4.8	5.6 * 5.6
Sorghum	5.0	2.0 * 20
Rye	4.8	1.6 * 20
Mustard (Pusa bold)	3.1	1.4
Linseed (T-59)	1.6 * 20	2.0
Safflower (TSE-1)	6.5	2.0 * 20
Sunflower (Mordon)	8.0	3.0
Pigeon pea and Bengal gram (bold)	8.0	3.2 * 20
Pigeon pea and Bengal gram (small)	6.5	3.2 * 20

Sieve Opening Size

SI No.	Crop	Screen Aperture Size in mm	
		Top Screen (3)	Bottom Screen (4)
i)	Sorghum/Jowar/Great millet	4.75 r	2.10 s, 3.50 r
ii)	Bajra/Pearl millet	3.25 r	1.30 s, 1.30 r, 1.40 r, 1.40 s, 1.60 r, 1.90 s
iii)	Finger millet/Ragi	3.25 r	1.40 s
iv)	Kodo millet	3.80 r	1.60 s, 2.00 r
v)	Foxtail millet	3.25 r	1.20 s, 1.30 r
vi)	Little millet	2.50 r	1.60 r
vii)	Proso/Common millet	3.80 r	1.60 s
viii)	Barnyard millet	3.25 r	1.40 s, 1.80 r
ix)	Browntop millet	3.25 r	1.2 × 20 oblong

NOTES
1 Here "r" stands for round hole and 's' stands for square slot.
2 The reference for this table was taken from minimum seed certification standards issued in 2013 by Central Seed Certification Board, Government of India, New Delhi.

Material of Construction

SI No. (1)	Component (2)	Material (3)	Reference to IS (4)
i)	Bearing housing/plumber block	Cast iron	210
ii)	Blower casing	Mild steel	2062
		Cast iron	210
		Mild steel	2062
iii)	Blower impeller (blade holder)	Cast iron	210
iv)	Bottom and top drum of elevator	Cast iron	210
v)	Bucket/cups	Mild steel	2062
		Plastic	-
vi)	Elevator body/frame	Mild steel	2062
		Wood	399
vii)	Feed hopper	Mild steel	2062
		Stainless steel (SS 304)	6911
viii)	Feed roll	Cast iron	210
ix)	Feed rate/distribution plates	Mild steel	2062
		Stainless steel (SS 304)	6911
x)	Frame	Mild steel	2062
		Galvanized iron	277
xi)	Gears	High carbon steel	-
xii)	Cam	High carbon steel	-
xiii)	Hand wheels/adjustment levers	Cast iron	210
		Mild steel	2062
xiv)	Plummer block	Cast iron	210
xv)	Pullies	Cast iron	210
		Mild steel	2062
xvi)	Screens/sieves	Mild steel	2062
		Galvanized iron	277
		Stainless steel (SS 304)	6911
xvii)	Shafts	Mild steel	2062
xviii)	Sieve frame	Mild steel	2062
		wood	399

Technical Specifications: Cleaning, Grading & Sorting Unit

Type - Fully Automatic

Capacity - 3 TPH

Item No	Name of Goods or Related Service	Technical Specifications and Standards
04	Cleaning, Grading & Sorting Unit	
	Type	Fully Automatic
	Capacity	3 TPH
	Onsite comprehensive Warranty	Minimum one (1) year on all parts from the date of commissioning.
	2 Cleaner cum Destoner	<p>The machine should be made of steel construction with compact and sturdy channel frame. It should be designed for suitable and efficient cleaning of various pulse/cereals crop.</p> <p>The machine have two/ Four flat vibratory/oscillating screens, Length of Screen- 2 to 3 times its width Input Capacity: 01 Ton/hr Wheat Basis perforation cleaning of top screen should be by beaters & bottom screens by nylon brushes, double aspiration variable shoe shake, 5 HP motor 440 V Crompton/ Equivalent. Screw Size Top 80 x 100 cm, Bottom 80 x 180 cm W x L. The machine should be regulated five level (Pneumatic lift) feed hopper dynamically balanced fan, air chamber screen deck and spouts should be self-cleaning type. No. of Aspirations: 02 Nos. pre & post aspirations Feed Roller: Steel roller dia. 80 mm for Uniform Seed Feeding on screens O. A. Size 356 x 175 x 285 cms (L x W x H) Complete with electric motor, starter switch, fitted with one set of screens and all other standard features. Rubber or soft coating to seeds hopper and all impact points in machine for smooth handling of grains. Supply: 440V, 3 Phase AC.</p> <p>(j) Air Trunk – 01 Set 100 cms long both ends flanged. Flanged are made of 25 x 25 x 3 mm angle iron.</p> <p>(k) Cyclone dust Collector - 01 Set The expansion chamber is made out of 1.6 mm M.S. Sheet with dust collection box and mounting stand.</p> <p>(l) Additional Sieves - 03 Set Screens are made of 0.8 mm with CPC perforated sheet and fitted on seasoned hard wood frame, suitably inclined. The screens are free from curvature and burrs. Should comply with relevant Bureau of Indian Standards (BIS) specifications for grain cleaners (e.g., IS 19039:2023 for</p>

Item No	Name of Goods or Related Service	Technical Specifications and Standards																	
		millets/cleaners, where applicable).																	
	1 Aspirator	<p>Function: Removes light impurities, chaff, and dust from the grain stream using controlled air velocity. Essential for both pre-cleaning and post-cleaning purification.</p> <p>Aspiration points: 02 Nos. (Pre & Post aspirations). Used before and after the screening process to maximize light impurity removal.</p> <p>Capacity (Air Flow): The system must be sized to match the machine's throughput: 1 Ton/hr (Wheat Basis).</p> <p>Fan Type: Dynamically balanced fan. Designed for efficient air movement and minimal vibration.</p> <p>Air Control: Air chamber, screen deck, and spouts should be self-cleaning type. The aspirator system requires fine-tuned regulation.</p> <p>Air Trunk: 01 Set. 100 cms long, both ends flanged. Flanges are made of 25 x 25 x 3 mm angle iron.</p> <p>Dust Collection: Cyclone dust Collector - 01 Set. The expansion chamber is made out of 1.6 mm M.S. Sheet with a dust collection box and mounting stand.</p> <p>Power Source: The fan and blower are powered by the unit's overall 440V, 3 Phase AC supply.</p> <table border="1" data-bbox="600 776 1946 1321"> <thead> <tr> <th data-bbox="600 776 905 834">Specification Category</th> <th data-bbox="905 776 1398 834">Parameter</th> <th data-bbox="1398 776 1946 834">Detailed Technical Specification</th> </tr> </thead> <tbody> <tr> <td data-bbox="600 834 905 922">Function</td> <td data-bbox="905 834 1398 922">Purpose</td> <td data-bbox="1398 834 1946 922">Removes dust, chaff, and light impurities from the grain stream using controlled air velocity.</td> </tr> <tr> <td data-bbox="600 922 905 1078">Air System</td> <td data-bbox="905 922 1398 1078">Aspiration Points. Fan Type Air Trunk</td> <td data-bbox="1398 922 1946 1078">02 Nos. (Pre- and post-cleaning aspiration) Dynamically balanced fan. 01 Set, 100 cms long, both ends flanged. Flanges are made of 25 x 25 x 3 mm angle iron</td> </tr> <tr> <td data-bbox="600 1078 905 1230">Dust Collection</td> <td data-bbox="905 1078 1398 1230">Dust Collector Chamber Material Expansion chamber is made out of 1.6 mm M.S. Sheet with a dust collection box and mounting stand.</td> <td data-bbox="1398 1078 1946 1230">Cyclone dust Collector - 01 Set.</td> </tr> <tr> <td data-bbox="600 1230 905 1321">Capacity</td> <td data-bbox="905 1230 1398 1321">Throughput</td> <td data-bbox="1398 1230 1946 1321">Air flow system must be sized to match the unit's 3 TPH capacity.</td> </tr> </tbody> </table>			Specification Category	Parameter	Detailed Technical Specification	Function	Purpose	Removes dust, chaff, and light impurities from the grain stream using controlled air velocity.	Air System	Aspiration Points. Fan Type Air Trunk	02 Nos. (Pre- and post-cleaning aspiration) Dynamically balanced fan. 01 Set, 100 cms long, both ends flanged. Flanges are made of 25 x 25 x 3 mm angle iron	Dust Collection	Dust Collector Chamber Material Expansion chamber is made out of 1.6 mm M.S. Sheet with a dust collection box and mounting stand.	Cyclone dust Collector - 01 Set.	Capacity	Throughput	Air flow system must be sized to match the unit's 3 TPH capacity.
Specification Category	Parameter	Detailed Technical Specification																	
Function	Purpose	Removes dust, chaff, and light impurities from the grain stream using controlled air velocity.																	
Air System	Aspiration Points. Fan Type Air Trunk	02 Nos. (Pre- and post-cleaning aspiration) Dynamically balanced fan. 01 Set, 100 cms long, both ends flanged. Flanges are made of 25 x 25 x 3 mm angle iron																	
Dust Collection	Dust Collector Chamber Material Expansion chamber is made out of 1.6 mm M.S. Sheet with a dust collection box and mounting stand.	Cyclone dust Collector - 01 Set.																	
Capacity	Throughput	Air flow system must be sized to match the unit's 3 TPH capacity.																	
	1 Magnetic Separator	Specification Category	Parameter	Detailed Technical Specification															

Item No	Name of Goods or Related Service	Technical Specifications and Standards		
		Function	Purpose	Removes metallic impurities (ferrous/paramagnetic) which are essential to prevent damage to downstream processing machinery and ensure food safety.
		Capacity	Throughput	Must handle a continuous flow of 3 TPH .
		Type	Mechanism	Drum or Belt type high-intensity permanent magnet separator (Inferred from Item 04/05 inclusion).
		Magnetism	Strength	High magnetic field strength to ensure separation of minute ferrous particles.
		Construction	Material	Made of sturdy steel construction with a non-magnetic housing for the magnetic field.
	1 Intended Cylinder	<p>The indented cylinder separator consists of a rotating cylinder and an adjustable trough. The inner surface of the cylinder has closely spaced indents. The seed mass to be handled is fed at one end and lies at the bottom of the cylinder. As the cylinder rotates on its axis the short seeds are lifted from the mixture by indents. Thus at some point before reaching the top of the rotation, the seeds fall out from the indents, because of the tilting of the later. Actually, the seeds resting in the indents lose balance and are eventually received in the adjustable trough from where they are conveyed out by an auger. The long seed which is not lifted by the indents gradually move through the cylinder end are discharged to a separate spout at the other end of the cylinder. The quality of separation depends on the position of the trough and the speed of the cylinder.</p>		
		Specification Category	Parameter	Detailed Technical Specification
		Function	Purpose	Separates seeds based on length (e.g., broken grains from whole grains, or weed seeds).
		Principle	Mechanism Separation	Consists of a rotating cylinder with closely spaced indents on the inner surface. Short seeds are lifted by indents and received in an adjustable

Item No	Name of Goods or Related Service	Technical Specifications and Standards		
				trough. Long seeds are discharged at the cylinder end.
		Capacity	Throughput	Must handle a continuous flow of 3 TPH.
		Control	Adjustment	Separation quality depends on the position of the trough and the speed of the cylinder.
		Discharge	Conveyance	Trough should be conveyed out by an auger.
	1 Grader	<p>Function: Final separation of pulses/cereals based on size, thickness, and quality. Removes oversized, undersized, and broken grains to ensure a uniform final product.</p> <p>Capacity: 1 TPH (1,000 kg/hr) based on Wheat basis.</p> <p>Type: High-efficiency Vibratory/Oscillating Screen Grader. Utilizes screens with specific apertures for precise sizing.</p> <p>Construction & Material:</p> <p>Overall Size (L x W x H): 316 x 146 x 256 cm (L x W x H).</p> <p>Construction: Made of steel construction with a compact and sturdy channel frame. Handling Material: Rubber or soft coating to the seed hopper and all impact points in the machine for smooth handling of grains.</p> <p>Screens: Two to three decks of flat, vibratory screens for multi-stage separation.</p> <p>Screen Dimensions: Screens must be appropriately sized for 1 TPH flow. Dimensions similar to those specified in the document (e.g., approximately 66 x 74.5 cms and 66 x 130 cms W x L) are required.</p> <p>Screen Inclination: Fixed inclination for both screens.</p> <p>Screen Perforation Cleaning: Top Screen: The Perforation cleaning device must be fixed with Beaters.</p> <p style="padding-left: 40px;">Bottom Screen: Perforation cleaning device must be Nylon Brushes.</p> <p>Screen Cleaning: Nylon Brushes or fixed Bearers to ensure constant clearing of screen perforations and prevent choking.</p> <p>Motor Power: 5 HP motor (Estimated power for a dedicated 1 TPH grader).</p> <p>Aspiration System: No. of Aspiration Two distinct aspiration stages (for pre and post-grading air cleaning).</p> <p>Fan Type: Dynamically balanced fan.</p> <p>Fan Capacity: 4500 CFM at 75 mm WGSP (Water Gauge Static Pressure).</p> <p>Fan Speed: 980 RPM (Rotations Per Minute).</p> <p>Electrical & Power: Electric Motor: 5 HP, 3 Phase, 440 V Crompton/Equivalent.</p>		

Item No	Name of Goods or Related Service	Technical Specifications and Standards																		
		<p>Fan Motor: Part of the main motor drive system or a dedicated motor sized for the fan capacity. Supply: 440V, 3 Phase AC supply. General Aperture Size: Screen aperture sizes must be interchangeable and specifically selected according to the pulse/grain being processed (e.g., using tables for Mung Beans or Chick Peas). Features: Air chamber, screen deck, and spouts should be self-cleaning type.</p> <table border="1" data-bbox="600 480 1948 1008"> <thead> <tr> <th data-bbox="600 480 905 545">Specification Category</th> <th data-bbox="905 480 1115 545">Parameter</th> <th data-bbox="1115 480 1948 545">Detailed Technical Specification</th> </tr> </thead> <tbody> <tr> <td data-bbox="600 545 905 643">Function</td> <td data-bbox="905 545 1115 643">Purpose</td> <td data-bbox="1115 545 1948 643">Final sizing and thickness separation to ensure uniformity and high quality of the final graded product.</td> </tr> <tr> <td data-bbox="600 643 905 708">Capacity</td> <td data-bbox="905 643 1115 708">Throughput</td> <td data-bbox="1115 643 1948 708">Must handle a continuous flow of 3 TPH.</td> </tr> <tr> <td data-bbox="600 708 905 846">Screening</td> <td data-bbox="905 708 1115 846">Type Screen Cleaning</td> <td data-bbox="1115 708 1948 846">High-efficiency Vibratory/Oscillating Screen Grader (Inferred from the detailed cleaner design). Perforation cleaning of screens by Bouncing rubber balls.</td> </tr> <tr> <td data-bbox="600 846 905 911">Construction</td> <td data-bbox="905 846 1115 911">Frame</td> <td data-bbox="1115 846 1948 911">Sturdy steel construction with compact channel frame.</td> </tr> <tr> <td data-bbox="600 911 905 1008">Motor</td> <td data-bbox="905 911 1115 1008">Power</td> <td data-bbox="1115 911 1948 1008">Dedicated Electric Motor: 5 HP (Minimum, 3 Phase, 440 V) (Scaled from 1 TPH Grader).</td> </tr> </tbody> </table>	Specification Category	Parameter	Detailed Technical Specification	Function	Purpose	Final sizing and thickness separation to ensure uniformity and high quality of the final graded product.	Capacity	Throughput	Must handle a continuous flow of 3 TPH .	Screening	Type Screen Cleaning	High-efficiency Vibratory/Oscillating Screen Grader (Inferred from the detailed cleaner design). Perforation cleaning of screens by Bouncing rubber balls .	Construction	Frame	Sturdy steel construction with compact channel frame.	Motor	Power	Dedicated Electric Motor: 5 HP (Minimum, 3 Phase, 440 V) (Scaled from 1 TPH Grader).
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Construction	Frame	Sturdy steel construction with compact channel frame.																		
Motor	Power	Dedicated Electric Motor: 5 HP (Minimum, 3 Phase, 440 V) (Scaled from 1 TPH Grader).																		
1 Fork Lift		<p>Function: Used for efficient handling and movement of raw material bags, finished product, and heavy components within the plant area. Quantity: 1 Type: Electric or Diesel Forklift; Minimum 1.5 to 2.0 Ton capacity.</p>																		
1 Weighing Balance at Platform		<p>Core Function & Capacity Name of Component: 1 Weighing Balance at Platform Function: Measurement of bulk material (e.g., input raw material, cleaned product bags, or finished goods) at an elevated platform or ground level. Capacity (Minimum): 200 to 500 kg Type & Construction Type: Digital Platform Weighing Scale.</p>																		

Item No	Name of Goods or Related Service	Technical Specifications and Standards
		<p>Platform Size: Robust, heavy-duty checkered plate platform sized appropriately for industrial use (e.g., 3 x 3 ft minimum).</p> <p>Construction: Heavy-duty steel frame construction, suitable for continuous industrial environment.</p> <p>Measurement & Display</p> <p>Accuracy: High-precision load cells; accuracy should be +/-100 or better.</p> <p>Readability: High-contrast, clear digital display (LED/LCD) for easy reading by the operator.</p> <p>Display Location: Separate display unit with pole mount or table mount for convenient reading.</p> <p>Electrical & Power</p> <p>Power Source: Operation on 440V, 3 Phase AC or internal rechargeable battery with AC adapter.</p> <p>Protection: Protection against dust and moisture (IP54 rating minimum for industrial use).</p> <p>General</p> <p>Taring: Full range TARE function available.</p> <p>Calibration: Easy and accessible calibration mechanism.</p> <p>Standard: Must conform to relevant national weights and measures standards.</p>
	4 Bucket Elevators	<p>Single leg bucket elevator consisting of receiving hopper, boot, bucket, belt, boot pulley, leg, head pulley, motor, drive and discharge spout will be used for conveying seed from one machine to another machine. It will lift the seed from the ground vertically upward and discharge it from top to the different machines.</p> <p>Spaced - Bucket centrifugal discharge type: used to move the grain from one machine to the next for continuous operation.</p> <p>Main Parts: Elevator head section, Boot section, Legs, Belt, Bucket</p> <p>Elevator head section: to avoid back logging an adjustable cut off plate should be provided close to lip of bucket.</p> <p>Boot section: should be of bolted assembly to allow for proper maintenance and replacement of pulley, shaft and other accessories.</p> <p>Elevator legs: should have service access for installation of new belt for inspection of belt and for replacement of damped bucket and shortening of belt should be provided at one and two levels.</p> <p>Belt width: should be 25 mm wider than bucket width</p> <p>Pulley width: should be 80 to 100 mm wider than belt width</p> <p>Inside casing width: should be 150 – 200 mm wider than belt</p> <p>Bucket lip clearance: should be 100 to 130 mm</p> <p>Bucket top angle 80 degree</p>

Item No	Name of Goods or Related Service	Technical Specifications and Standards
		Bucket bottom angle 20 to 30 degree.
	General Installation	Electric Control Panel: Centralized PCC/MCC (Motor Control Center) panel with safety interlocks and main circuit breakers. Iron & Steel Platforms: All required structural supports and platforms (MS) for machine mounting, operator access, and material flow must be included. Commissioning: Complete erection, testing, and commissioning of the entire plant must be provided by the supplier.
	Power and Utilities	Electric Control Panel: Must be supplied with a centralized, dust-proof control panel with motor protection features (overload, short-circuit). Piping & Ducting: All required iron and steel structural platforms, spouting, and dust collection ducting shall be included.

Size of aperture in a four-screen cleaner for some of the agricultural grains

Grain	Screen Size, mm (from top screen)			
	1	2	3	4
Wheat, plump	6.30	2.0 * 20	5.6, 3.6 × 20	2.2 * 20
Wheat, thin	5.6	1.8 * 20	5, 3.2 * 20	2.0 * 20
Maize, cleaning only	12.7	4.8	12	5.6
Paddy, long grain	5.6, 4.8	2.4, 2.6	5, 3.2 * 20	1.4 * 20
Paddy, short grain	5.6	2.4, 2.6	5, 3.2 * 20	1.8 * 20
Rye	4.8	1.4 * 20	4.8, 2.7 * 20	1.6 * 20
Safflower	7.0	3.2	4.4 * 20	24 * 20
Sesame	2.4	6.4 * 6.7	1.3 * 20	1.6, 2.4 * 9.5
Kidney (Red) Beans	12.0	5.2 * 20	11.0	5.5 * 20
Mung Beans (Green gram)	5.5	3.0	5.1	3.2 * 20
Chick Peas (Bengal gram)	12.0	4.4 * 20	10.3	4.8 * 20
Pigeon Peas	9.5	3.6 * 20	9.1	4.0 * 20
Lentils	7.1	4.0, 5.0	2.8 * 20	4.0, 5.0

Size of aperture in a two-screen cleaner for some of the agricultural grain/seeds

Grain	Top Sieve (scalper) mm	Bottom sieve (grader) mm
Wheat (bold)	5.0	2.0 * 20
Wheat (thin)	5.0	1.8 * 20
Maize, cleaning only	11, 12	6.3
Rice	4.8	5.6 * 5.6
Sorghum	5.0	2.0 * 20
Rye	4.8	1.6 * 20
Mustard (Pusa bold)	3.1	1.4
Linseed (T-59)	1.6 * 20	2.0
Safflower (TSE-1)	6.5	2.0 * 20
Sunflower (Mordon)	8.0	3.0
Pigeon pea and Bengal gram (bold)	8.0	3.2 * 20
Pigeon pea and Bengal gram (small)	6.5	3.2 * 20

Sieve Opening Size

SI No.	Crop	Screen Aperture Size in mm	
		Top Screen (3)	Bottom Screen (4)
i)	Sorghum/Jowar/Great millet	4.75 r	2.10 s, 3.50 r
ii)	Bajra/Pearl millet	3.25 r	1.30 s, 1.30 r, 1.40 r, 1.40 s, 1.60 r, 1.90 s
iii)	Finger millet/Ragi	3.25 r	1.40 s
iv)	Kodo millet	3.80 r	1.60 s, 2.00 r
v)	Foxtail millet	3.25 r	1.20 s, 1.30 r
vi)	Little millet	2.50 r	1.60 r
vii)	Proso/Common millet	3.80 r	1.60 s
viii)	Barnyard millet	3.25 r	1.40 s, 1.80 r
ix)	Browntop millet	3.25 r	1.2 × 20 oblong

NOTES
1 Here "r" stands for round hole and 's' stands for square slot.
2 The reference for this table was taken from minimum seed certification standards issued in 2013 by Central Seed Certification Board, Government of India, New Delhi.

Material of Construction

SI No. (1)	Component (2)	Material (3)	Reference to IS (4)
i)	Bearing housing/plumber block	Cast iron	210
ii)	Blower casing	Mild steel	2062
		Cast iron	210
		Mild steel	2062
iii)	Blower impeller (blade holder)	Cast iron	210
iv)	Bottom and top drum of elevator	Cast iron	210
v)	Bucket/cups	Mild steel	2062
		Plastic	-
vi)	Elevator body/frame	Mild steel	2062
		Wood	399
vii)	Feed hopper	Mild steel	2062
		Stainless steel (SS 304)	6911
viii)	Feed roll	Cast iron	210
ix)	Feed rate/distribution plates	Mild steel	2062
		Stainless steel (SS 304)	6911
x)	Frame	Mild steel	2062
		Galvanized iron	277
xi)	Gears	High carbon steel	-
xii)	Cam	High carbon steel	-
xiii)	Hand wheels/adjustment levers	Cast iron	210
		Mild steel	2062
xiv)	Plummer block	Cast iron	210
xv)	Pullies	Cast iron	210
		Mild steel	2062
xvi)	Screens/sieves	Mild steel	2062
		Galvanized iron	277
		Stainless steel (SS 304)	6911
xvii)	Shafts	Mild steel	2062
xviii)	Sieve frame	Mild steel	2062
		wood	399

Technical Specifications: Cleaning, Grading & Sorting Unit

Type - Fully Automatic

Capacity - 4-5 TPH

Item No	Name of Goods or Related Service	Technical Specifications and Standards
05	Cleaning, Grading & Sorting Unit	
	Type	Fully Automatic
	Capacity	4-5 TPH
	Onsite comprehensive Warranty	Minimum one (1) year on all parts from the date of commissioning.
	2 Cleaner cum Destoner	<p>The machine should be made of steel construction with compact and sturdy channel frame. It should be designed for suitable and efficient cleaning of various pulse/cereals crop.</p> <p>The machine have two/ Four flat vibratory/oscillating screens, Length of Screen- 2 to 3 times its width Input Capacity: 01 Ton/hr Wheat Basis perforation cleaning of top screen should be by beaters & bottom screens by nylon brushes, double aspiration variable shoe shake, 5 HP motor 440 V Crompton/ Equivalent. Screw Size Top 80 x 100 cm, Bottom 80 x 180 cm W x L. The machine should be regulated five level (Pneumatic lift) feed hopper dynamically balanced fan, air chamber screen deck and spouts should be self-cleaning type. No. of Aspirations: 02 Nos. pre & post aspirations Feed Roller: Steel roller dia. 80 mm for Uniform Seed Feeding on screens O. A. Size 356 x 175 x 285 cms (L x W x H) Complete with electric motor, starter switch, fitted with one set of screens and all other standard features. Rubber or soft coating to seeds hopper and all impact points in machine for smooth handling of grains. Supply: 440V, 3 Phase AC. (m) Air Trunk – 01 Set 100 cms long both ends flanged. Flanged are made of 25 x 25 x 3 mm angle iron. (n) Cyclone dust Collector - 01 Set The expansion chamber is made out of 1.6 mm M.S. Sheet with dust collection box and mounting stand. (o) Additional Sieves - 03 Set Screens are made of 0.8 mm with CPC perforated sheet and fitted on seasoned hard wood frame, suitably inclined. The screens are free from curvature and burrs. Should comply with relevant Bureau of Indian Standards (BIS) specifications for grain cleaners (e.g., IS 19039:2023 for</p>

Item No	Name of Goods or Related Service	Technical Specifications and Standards																	
		millets/cleaners, where applicable).																	
1	Aspirator	<p>Function: Removes light impurities, chaff, and dust from the grain stream using controlled air velocity. Essential for both pre-cleaning and post-cleaning purification.</p> <p>Aspiration points: 02 Nos. (Pre & Post aspirations). Used before and after the screening process to maximize light impurity removal.</p> <p>Capacity (Air Flow): The system must be sized to match the machine's throughput: 1 Ton/hr (Wheat Basis).</p> <p>Fan Type: Dynamically balanced fan. Designed for efficient air movement and minimal vibration.</p> <p>Air Control: Air chamber, screen deck, and spouts should be self-cleaning type. The aspirator system requires fine-tuned regulation.</p> <p>Air Trunk: 01 Set. 100 cms long, both ends flanged. Flanges are made of 25 x 25 x 3 mm angle iron.</p> <p>Dust Collection: Cyclone dust Collector - 01 Set. The expansion chamber is made out of 1.6 mm M.S. Sheet with a dust collection box and mounting stand.</p> <p>Power Source: The fan and blower are powered by the unit's overall 440V, 3 Phase AC supply.</p> <table border="1" data-bbox="600 776 1950 1323"> <thead> <tr> <th data-bbox="600 776 905 836">Specification Category</th> <th data-bbox="905 776 1398 836">Parameter</th> <th data-bbox="1398 776 1950 836">Detailed Technical Specification</th> </tr> </thead> <tbody> <tr> <td data-bbox="600 836 905 927">Function</td> <td data-bbox="905 836 1398 927">Purpose</td> <td data-bbox="1398 836 1950 927">Removes dust, chaff, and light impurities from the grain stream using controlled air velocity.</td> </tr> <tr> <td data-bbox="600 927 905 1081">Air System</td> <td data-bbox="905 927 1398 1081">Aspiration Points. Fan Type Air Trunk</td> <td data-bbox="1398 927 1950 1081">02 Nos. (Pre- and post-cleaning aspiration) Dynamically balanced fan. 01 Set, 100 cms long, both ends flanged. Flanges are made of 25 x 25 x 3 mm angle iron</td> </tr> <tr> <td data-bbox="600 1081 905 1230">Dust Collection</td> <td data-bbox="905 1081 1398 1230">Dust Collector Chamber Material Expansion chamber is made out of 1.6 mm M.S. Sheet with a dust collection box and mounting stand.</td> <td data-bbox="1398 1081 1950 1230">Cyclone dust Collector - 01 Set.</td> </tr> <tr> <td data-bbox="600 1230 905 1323">Capacity</td> <td data-bbox="905 1230 1398 1323">Throughput</td> <td data-bbox="1398 1230 1950 1323">Air flow system must be sized to match the unit's 3 TPH capacity.</td> </tr> </tbody> </table>			Specification Category	Parameter	Detailed Technical Specification	Function	Purpose	Removes dust, chaff, and light impurities from the grain stream using controlled air velocity.	Air System	Aspiration Points. Fan Type Air Trunk	02 Nos. (Pre- and post-cleaning aspiration) Dynamically balanced fan. 01 Set, 100 cms long, both ends flanged. Flanges are made of 25 x 25 x 3 mm angle iron	Dust Collection	Dust Collector Chamber Material Expansion chamber is made out of 1.6 mm M.S. Sheet with a dust collection box and mounting stand.	Cyclone dust Collector - 01 Set.	Capacity	Throughput	Air flow system must be sized to match the unit's 3 TPH capacity.
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2	Magnetic Separator	Specification Category	Parameter	Detailed Technical Specification															

Item No	Name of Goods or Related Service	Technical Specifications and Standards		
		Function	Purpose	Removes metallic impurities (ferrous/paramagnetic) which are essential to prevent damage to downstream processing machinery and ensure food safety.
		Capacity	Throughput	Must handle a continuous flow of 4-5 TPH .
		Type	Mechanism	Drum or Belt type high-intensity permanent magnet separator (Inferred from Item 04/05 inclusion).
		Magnetism	Strength	High magnetic field strength to ensure separation of minute ferrous particles.
		Construction	Material	Made of sturdy steel construction with a non-magnetic housing for the magnetic field.
	2 Intended Cylinder	<p>The indented cylinder separator consists of a rotating cylinder and an adjustable trough. The inner surface of the cylinder has closely spaced indents. The seed mass to be handled is fed at one end and lies at the bottom of the cylinder. As the cylinder rotates on its axis the short seeds are lifted from the mixture by indents. Thus at some point before reaching the top of the rotation, the seeds fall out from the indents, because of the tilting of the later. Actually, the seeds resting in the indents lose balance and are eventually received in the adjustable trough from where they are conveyed out by an auger. The long seed which is not lifted by the indents gradually move through the cylinder end are discharged to a separate spout at the other end of the cylinder. The quality of separation depends on the position of the trough and the speed of the cylinder.</p>		
		Specification Category	Parameter	Detailed Technical Specification
		Function	Purpose	Separates seeds based on length (e.g., broken grains from whole grains, or weed seeds).
		Principle	Mechanism Separation	Consists of a rotating cylinder with closely spaced indents on the inner surface. Short seeds are lifted by indents and received in an adjustable

Item No	Name of Goods or Related Service	Technical Specifications and Standards		
				trough. Long seeds are discharged at the cylinder end.
		Capacity	Throughput	Must handle a continuous flow of 4-5 TPH .
		Control	Adjustment	Separation quality depends on the position of the trough and the speed of the cylinder.
		Discharge	Conveyance	Trough should be conveyed out by an auger .
	1 Colour Sorter	chute – type colour sorter		
	1 Grader	<p>Function: Final separation of pulses/cereals based on size, thickness, and quality. Removes oversized, undersized, and broken grains to ensure a uniform final product.</p> <p>Capacity: 1 TPH (1,000 kg/hr) based on Wheat basis.</p> <p>Type: High-efficiency Vibratory/Oscillating Screen Grader. Utilizes screens with specific apertures for precise sizing.</p> <p>Construction & Material:</p> <p>Overall Size (L x W x H): 316 x 146 x 256 cm (L x W x H).</p> <p>Construction: Made of steel construction with a compact and sturdy channel frame. Handling Material: Rubber or soft coating to the seed hopper and all impact points in the machine for smooth handling of grains.</p> <p>Screens: Two to three decks of flat, vibratory screens for multi-stage separation.</p> <p>Screen Dimensions: Screens must be appropriately sized for 1 TPH flow. Dimensions similar to those specified in the document (e.g., approximately 66 x 74.5 cms and 66 x 130 cms W x L) are required.</p> <p>Screen Inclination: Fixed inclination for both screens.</p> <p>Screen Perforation Cleaning: Top Screen: The Perforation cleaning device must be fixed with Beaters.</p> <p style="padding-left: 40px;">Bottom Screen: Perforation cleaning device must be Nylon Brushes.</p> <p>Screen Cleaning: Nylon Brushes or fixed Bearers to ensure constant clearing of screen perforations and prevent choking.</p> <p>Motor Power: 5 HP motor (Estimated power for a dedicated 1 TPH grader).</p> <p>Aspiration System: No. of AspirationTwo distinct aspiration stages (for pre and post-grading air cleaning).</p> <p>Fan Type: Dynamically balanced fan.</p> <p>Fan Capacity: 4500 CFM at 75 mm WGSP (Water Gauge Static Pressure).</p> <p>Fan Speed: 980 RPM (Rotations Per Minute).</p>		

Item No	Name of Goods or Related Service	Technical Specifications and Standards																		
		<p>Electrical & Power: Electric Motor: 5 HP, 3 Phase, 440 V Crompton/Equivalent. Fan Motor: Part of the main motor drive system or a dedicated motor sized for the fan capacity. Supply: 440V, 3 Phase AC supply.</p> <p>General Aperture: Size: Screen aperture sizes must be interchangeable and specifically selected according to the pulse/grain being processed (e.g., using tables for Mung Beans or Chick Peas). Features: Air chamber, screen deck, and spouts should be self-cleaning type.</p> <table border="1" data-bbox="600 553 1946 1081"> <thead> <tr> <th data-bbox="600 553 905 618">Specification Category</th> <th data-bbox="905 553 1167 618">Parameter</th> <th data-bbox="1167 553 1946 618">Detailed Technical Specification</th> </tr> </thead> <tbody> <tr> <td data-bbox="600 618 905 716">Function</td> <td data-bbox="905 618 1167 716">Purpose</td> <td data-bbox="1167 618 1946 716">Final sizing and thickness separation to ensure uniformity and high quality of the final graded product.</td> </tr> <tr> <td data-bbox="600 716 905 781">Capacity</td> <td data-bbox="905 716 1167 781">Throughput</td> <td data-bbox="1167 716 1946 781">Must handle a continuous flow of 3 TPH.</td> </tr> <tr> <td data-bbox="600 781 905 919">Screening</td> <td data-bbox="905 781 1167 919">Type Screen Cleaning</td> <td data-bbox="1167 781 1946 919">High-efficiency Vibratory/Oscillating Screen Grader (Inferred from the detailed cleaner design). Perforation cleaning of screens by Bouncing rubber balls.</td> </tr> <tr> <td data-bbox="600 919 905 984">Construction</td> <td data-bbox="905 919 1167 984">Frame</td> <td data-bbox="1167 919 1946 984">Sturdy steel construction with compact channel frame.</td> </tr> <tr> <td data-bbox="600 984 905 1081">Motor</td> <td data-bbox="905 984 1167 1081">Power</td> <td data-bbox="1167 984 1946 1081">Dedicated Electric Motor: 5 HP (Minimum, 3 Phase, 440 V) (Scaled from 1 TPH Grader).</td> </tr> </tbody> </table>	Specification Category	Parameter	Detailed Technical Specification	Function	Purpose	Final sizing and thickness separation to ensure uniformity and high quality of the final graded product.	Capacity	Throughput	Must handle a continuous flow of 3 TPH .	Screening	Type Screen Cleaning	High-efficiency Vibratory/Oscillating Screen Grader (Inferred from the detailed cleaner design). Perforation cleaning of screens by Bouncing rubber balls .	Construction	Frame	Sturdy steel construction with compact channel frame.	Motor	Power	Dedicated Electric Motor: 5 HP (Minimum, 3 Phase, 440 V) (Scaled from 1 TPH Grader).
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Function	Purpose	Final sizing and thickness separation to ensure uniformity and high quality of the final graded product.																		
Capacity	Throughput	Must handle a continuous flow of 3 TPH .																		
Screening	Type Screen Cleaning	High-efficiency Vibratory/Oscillating Screen Grader (Inferred from the detailed cleaner design). Perforation cleaning of screens by Bouncing rubber balls .																		
Construction	Frame	Sturdy steel construction with compact channel frame.																		
Motor	Power	Dedicated Electric Motor: 5 HP (Minimum, 3 Phase, 440 V) (Scaled from 1 TPH Grader).																		
2 Fork Lift		<p>Function: Used for efficient handling and movement of raw material bags, finished product, and heavy components within the plant area. Quantity: 1 Type: Electric or Diesel Forklift; Minimum 1.5 to 2.0 Ton capacity.</p>																		
1 Weighing Balance at Platform		<p>Core Function & Capacity Name of Component: 1 Weighing Balance at Platform Function: Measurement of bulk material (e.g., input raw material, cleaned product bags, or finished goods) at an elevated platform or ground level. Capacity (Minimum): 500 kg</p>																		

Item No	Name of Goods or Related Service	Technical Specifications and Standards
		<p>Type & Construction Type: Digital Platform Weighing Scale. Platform Size: Robust, heavy-duty checkered plate platform sized appropriately for industrial use (e.g., 3 x 3 ft minimum). Construction: Heavy-duty steel frame construction, suitable for continuous industrial environment. Measurement & Display Accuracy: High-precision load cells; accuracy should be +/-100 or better. Readability: High-contrast, clear digital display (LED/LCD) for easy reading by the operator. Display Location: Separate display unit with pole mount or table mount for convenient reading. Electrical & Power Power Source: Operation on 440V, 3 Phase AC or internal rechargeable battery with AC adapter. Protection: Protection against dust and moisture (IP54 rating minimum for industrial use). General Taring: Full range TARE function available. Calibration: Easy and accessible calibration mechanism. Standard: Must conform to relevant national weights and measures standards.</p>
	6 Bucket Elevators/ Elevator Legs	<p>Single leg bucket elevator consisting of receiving hopper, boot, bucket, belt, boot pulley, leg, head pulley, motor, drive and discharge spout will be used for conveying seed from one machine to another machine. It will lift the seed from the ground vertically upward and discharge it from top to the different machines. Spaced - Bucket centrifugal discharge type: used to move the grain from one machine to the next for continuous operation. Main Parts: Elevator head section, Boot section, Legs, Belt, Bucket Elevator head section: to avoid back logging an adjustable cut off plate should be provided close to lip of bucket. Boot section: should be of bolted assembly to allow for proper maintenance and replacement of pulley, shaft and other accessories. Elevator legs: should have service access for installation of new belt for inspection of belt and for replacement of damped bucket and shortening of belt should be provided at one and two levels. Belt width: should be 25 mm wider than bucket width Pulley width: should be 80 to 100 mm wider than belt width Inside casing width: should be 150 – 200 mm wider than belt</p>

Item No	Name of Goods or Related Service	Technical Specifications and Standards
		Bucket lip clearance: should be 100 to 130 mm Bucket top angle 80 degree Bucket bottom angle 20 to 30 degree
	General Installation	<p>Electric Control Panel: Centralized PCC/MCC (Motor Control Center) panel with safety interlocks and main circuit breakers.</p> <p>Iron & Steel Platforms: All required structural supports and platforms (MS) for machine mounting, operator access, and material flow must be included.</p> <p>Commissioning: Complete erection, testing, and commissioning of the entire plant must be provided by the supplier.</p>
	Power and Utilities	<p>Electric Control Panel: Must be supplied with a centralized, dust-proof control panel with motor protection features (overload, short-circuit).</p> <p>Piping & Ducting: All required iron and steel structural platforms, spouting, and dust collection ducting shall be included.</p>

Size of aperture in a four-screen cleaner for some of the agricultural grains

Grain	Screen Size, mm (from top screen)			
	1	2	3	4
Wheat, plump	6.30	2.0 * 20	5.6, 3.6 × 20	2.2 * 20
Wheat, thin	5.6	1.8 * 20	5, 3.2 * 20	2.0 * 20
Maize, cleaning only	12.7	4.8	12	5.6
Paddy, long grain	5.6, 4.8	2.4, 2.6	5, 3.2 * 20	1.4 * 20
Paddy, short grain	5.6	2.4, 2.6	5, 3.2 * 20	1.8 * 20
Rye	4.8	1.4 * 20	4.8, 2.7 * 20	1.6 * 20
Safflower	7.0	3.2	4.4 * 20	24 * 20
Sesame	2.4	6.4 * 6.7	1.3 * 20	1.6, 2.4 * 9.5
Kidney (Red) Beans	12.0	5.2 * 20	11.0	5.5 * 20
Mung Beans (Green gram)	5.5	3.0	5.1	3.2 * 20
Chick Peas (Bengal gram)	12.0	4.4 * 20	10.3	4.8 * 20
Pigeon Peas	9.5	3.6 * 20	9.1	4.0 * 20
Lentils	7.1	4.0, 5.0	2.8 * 20	4.0, 5.0

Size of aperture in a two-screen cleaner for some of the agricultural grain/seeds

Grain	Top Sieve (scalper) mm	Bottom sieve (grader) mm
Wheat (bold)	5.0	2.0 * 20
Wheat (thin)	5.0	1.8 * 20
Maize, cleaning only	11, 12	6.3
Rice	4.8	5.6 * 5.6
Sorghum	5.0	2.0 * 20
Rye	4.8	1.6 * 20
Mustard (Pusa bold)	3.1	1.4
Linseed (T-59)	1.6 * 20	2.0
Safflower (TSE-1)	6.5	2.0 * 20
Sunflower (Mordon)	8.0	3.0
Pigeon pea and Bengal gram (bold)	8.0	3.2 * 20
Pigeon pea and Bengal gram (small)	6.5	3.2 * 20

Sieve Opening Size

SI No.	Crop	Screen Aperture Size in mm	
		Top Screen (3)	Bottom Screen (4)
i)	Sorghum/Jowar/Great millet	4.75 r	2.10 s, 3.50 r
ii)	Bajra/Pearl millet	3.25 r	1.30 s, 1.30 r, 1.40 r, 1.40 s, 1.60 r, 1.90 s
iii)	Finger millet/Ragi	3.25 r	1.40 s
iv)	Kodo millet	3.80 r	1.60 s, 2.00 r
v)	Foxtail millet	3.25 r	1.20 s, 1.30 r
vi)	Little millet	2.50 r	1.60 r
vii)	Proso/Common millet	3.80 r	1.60 s
viii)	Barnyard millet	3.25 r	1.40 s, 1.80 r
ix)	Browntop millet	3.25 r	1.2 × 20 oblong

NOTES
1 Here "r" stands for round hole and 's' stands for square slot.
2 The reference for this table was taken from minimum seed certification standards issued in 2013 by Central Seed Certification Board, Government of India, New Delhi.

Material of Construction

SI No. (1)	Component (2)	Material (3)	Reference to IS (4)
i)	Bearing housing/plumber block	Cast iron	210
ii)	Blower casing	Mild steel	2062
		Cast iron	210
		Mild steel	2062
iii)	Blower impeller (blade holder)	Cast iron	210
iv)	Bottom and top drum of elevator	Cast iron	210
v)	Bucket/cups	Mild steel	2062
		Plastic	-
vi)	Elevator body/frame	Mild steel	2062
		Wood	399
vii)	Feed hopper	Mild steel	2062
		Stainless steel (SS 304)	6911
viii)	Feed roll	Cast iron	210
ix)	Feed rate/distribution plates	Mild steel	2062
		Stainless steel (SS 304)	6911
x)	Frame	Mild steel	2062
		Galvanized iron	277
xi)	Gears	High carbon steel	-
xii)	Cam	High carbon steel	-
xiii)	Hand wheels/adjustment levers	Cast iron	210
		Mild steel	2062
xiv)	Plummer block	Cast iron	210
xv)	Pullies	Cast iron	210
		Mild steel	2062
xvi)	Screens/sieves	Mild steel	2062
		Galvanized iron	277
		Stainless steel (SS 304)	6911
xvii)	Shafts	Mild steel	2062
xviii)	Sieve frame	Mild steel	2062
		wood	399

General Instructions Regarding Technical Specification

The following points should added as a general item in the specification of machinery for the specific lines:

1. All M.S. components shall be painted with two coats of red oxide primer followed by two coats of enamel paint.
2. All elevators, Main machines like pre-cleaner, grader, Indented Cylinder, Gravity Separator, shall be painted in one color. Delivery chutes shall be constructed out of 120 GSM galvanized sheet bolted construction to save on transport cost. All fans shall be dynamically balanced.
3. All Bearing shall be SKF/NBC make. All bearing to be provided with caps to prevent dust.
4. All the belts shall be Continental/Fenner/ Hilton make.
5. All Electrical cable/ wiring/ circuit/ switches and all other electrical fittings/components shall be Siemens /ABB/ Crompton make
6. Y Section to be offered with each elevator to reduce the speed of seed at the discharge end.
7. All delivery chutes shall be of 3 mm GI or lined with antiabrasive material OR 2.0 mm SS 304.
8. Essential spares of machinery like screens and other spares for the smooth functioning of the plant for one year of operation should be supplied.
9. Tools required for the maintenance of machinery should be supplied
10. Appropriate guard for all open drives should be provided for safety
11. The individual machinery should be supplied with an electrical motor and matching starter
12. Provision for starting/ stopping the individual machine of the line should be made available
13. The electrical motor supplied should be from reputed manufacturers having an efficiency of 80% and above
14. Control panel for the entire plant should be provided along with indicator lamps and Voltage
15. The charges for wiring the individual machinery with necessary and regulatory safety features should be included in the scope of the supply.
16. The AMC for the entire plant (after the warranty period) may be indicated
17. Please mention the area required for each line and arrange to provide layout drawing accordingly.
- 18. Machine is fitted with a Suitable Feed Hopper with a Feed Control device.**
19. For silent & smooth operation of the machine reduction Gear box drive is fitted.
- 20. All the shafts are made of high - Grade Steel.**
- 21. All the moving parts are covered with protective guards & the machine shall be painted with Primer followed by Two Quotes of Enamel/Hammer tone paint.**
22. All the electric motors, electric control panel, all platforms, machine accessories, power transmission mechanism, etc. of standard material and size should be provided.
23. Before submission bid documents company should send an engineer to visit the site to install the machine.
24. Plant and machinery should have tested by the authorized testing center of the government of India.
25. In the case of machines for which the Technical Specification (Technical Specification) has been determined by the Bureau of Indian Standards (BIS), it will be mandatory to mention the complete Technical Specification as per BIS.

4. Drawings

This RFB document includes *[insert “the following” or “no”]* drawings.

[If documents shall be included, insert the following List of Drawings]

List of Drawings		
Drawing No.	Drawing Name	Purpose

5. Inspections and Tests

The following inspections and tests shall be performed: *[insert list of inspections and tests]*

The following inspections and tests shall be performed after installation and/or commissioning: *delete points which are not relevant / not required.*

- 1) Inspection of each Machine and their accessories done by expert appointed by Purchaser
- 2) Testing of Capacity of Machine and their accessories
- 3) Step to step training of final product operation of each machine and accessories
- 4) Final product testing done through expert appointed by Purchaser
- 5) Test report of offered goods/machinery /equipment issued by agriculture university/ICAR/NABL Lab/ agency authorized by any Central / State government etc.

PART 3 – Procuring Agency’s Forms

Performance Security - Bank Guarantee
[Guarantor letterhead or SWIFT identifier code]

Performance Guarantee No.....*[insert guarantee reference number]*

Date.....*[insert date of issue of the guarantee]*

To: _____ *[name of Procuring Agency]*

_____ *[address of Procuring Agency]*

WHEREAS _____ *[name and address of Supplier]* (hereinafter called "the Applicant") has undertaken, in pursuance of Framework Agreement No. _____ dated _____ to execute _____ *[insert brief description of Goods and related Services]* (hereinafter called "the Framework Agreement ");

AND WHEREAS it has been stipulated by you in the said Framework Agreement that the Applicant shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with his obligations in accordance with the Framework Agreement;

AND WHEREAS we have agreed to give the Applicant such a Bank Guarantee;

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you, on behalf of the Applicant, up to a total of _____ *[amount of guarantee⁸]* _____ *[in words]*, such sum being payable in the types and proportions of currencies in which the Contract Price is payable, and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of _____ *[amount of guarantee]* as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the Applicant before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the Framework Agreement or of the Goods and related Services to be supplied thereunder or of any of the

⁸ An amount shall be inserted by the Guarantor, representing the percentage of the Contract Price specified in the Contract and denominated in Indian Rupees.

Framework Agreement documents which may be made between you and the Applicant shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid until (i.e.) 45 days following the Completion date of the Framework Agreement including any warranty obligations⁹, and any demand for payment under it must be received by us at this office on or before that date.

Signature and seal of the guarantor _____

Name of Bank _____

Address _____

Date _____

Note: All italicized text (including footnotes) is for use in preparing this form and shall be deleted from the final product.

⁹ Completion date as described in FA Standard Provisions Clause 10

Notification of Award / Letter of Acceptance Framework Agreement for Goods

[Use letterhead paper of the Procuring Agency]

[Date]

To: *[name and address of the Bidder]*

**Notification of Award of Framework Agreement
Framework Agreement No. *[insert FA reference number]***

This is to notify you that your Bid dated *[insert date]* to be awarded a Framework Agreement in relation to the supply of *[insert short title for Goods]* is hereby accepted by our Agency.

Please sign and date both copies of the attached Framework Agreement, and return to us in the envelope provided.

Signature of authorized signatory: _____

Name of signatory: _____

Title of signatory: _____

Name of Procuring Agency: _____

Attachment:

Framework Agreement x 2

PART 4 – Framework Agreement

Framework Agreement

Supply of Goods

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Framework Agreement for the supply of Goods

[This form is to be completed by the Procuring Agency in accordance with the instructions]

‘Procuring Agency’	Project Co-ordination & Management Unit, Hon. Balasaheb Thackeray Agribusiness & Rural Transformation (SMART) Project, Department of Agriculture, Government of Maharashtra having its principal place of business Sheti Mahamandal Bhavan, 270, Bhamburda, Senapati Bapat Road, Pune – 411 016 responsible for managing and administering the Framework Agreement, acting in its own right as a ‘Purchaser’, and acting for and on behalf of the other Participating Users listed in Schedule 6.
‘Participating User(s) or Purchaser(s)’	The Participating User(s) or Purchaser(s) permitted to purchase under the Framework Agreement are listed in Schedule 6. The Procuring Agency may modify this list of Users as and when required without any reference to the FA Holders (Suppliers).
FA Holder/ Supplier	[insert name of the successful bidder], a corporation incorporated under the laws of [insert the country where the Supplier is domiciled] and having its principal place of business at [insert Supplier’s address] (Supplier)
Commencement Date	[insert the date when signed by both Parties]
Type of Goods	Supply installation, testing & commissioning of Cleaning, Grading & Sorting machinery at Farmer Producer Companies / Community Based organization in various districts of in Maharashtra state Under SMART Project Cleaning, Grading & Sorting
FA Reference No.	[insert Purchaser’s reference number for Framework Agreement]

Framework Agreement

This Framework Agreement is made, on the date set out above, between:

- a. **the Procuring Agency**, being the Purchaser acting for and on behalf of the Participating Users listed in Schedule 6 and responsible for the ongoing management and administration of this Framework Agreement, and
- b. **The Supplier.**

This Framework Agreement is subject to the provisions described in the Sections and Schedules listed below, and any Variation(s).

This Framework Agreement establishes a standing offer by the FA Holder/Supplier to supply the specified Goods to the Purchaser(s) during the Term of the Framework Agreement, as and when the Purchaser(s) wishes to purchase them, through Call-off Contract(s).

This Framework Agreement, including the Call-off Contract General Conditions and Special Conditions of Contract, shall govern the relationship between the Parties, and any Call-off Contract(s).

Provisions

The Purchaser(s) and the FA Holder/Supplier agree that the following provisions apply to this Framework Agreement and, where indicated, to any Call-off Contract awarded under this Framework Agreement.

Section A: Framework Agreement Specific Provisions (FA Specific Provisions)

Section B: Framework Agreement Standard Provisions (FA Standard Provisions)

Section C: Framework Agreement Definitions

Schedule 1: Schedule of Requirements

Schedule 2: Price Schedules

Schedule 3: Secondary Procurement

Schedule 4: Call-off Contract: General Conditions of Contract (GCC)

Schedule 5: Forms for Call-off Contract

Schedule 6: List of Participating Users [*use for Multi-User FAs, otherwise delete*]

[Note: any new Sections must be added after Section C, and any new Schedules must be added after Schedule 6. The titles and order of the Sections and Schedules listed above must not be changed, as these are referenced throughout the Framework Agreement and in the Call-off Contract.]

EXECUTION

IN WITNESS whereof, the Parties to this Framework Agreement have caused this Framework Agreement to be executed in accordance with the laws of India on the [*insert number*] day, of [*insert month*], [*insert year*], as follows:

Signed by the [*Procuring Agency*] in its own capacity, and on behalf of all Participating Users:

Signed: [*place for person to sign the document*]

Full name: Shri-----

Agency: Project Co-ordination & Management Unit, Hon. Balasaheb Thackeray Agribusiness & Rural Transformation Project, Department of Agriculture, Maharashtra

In the capacity of: Project Director

Signed on behalf of the FA Holder/Supplier:

Signed: *[place for person to sign the document]*

Full name: *[type name of person signing]*

In the capacity of: *[type the title, position or authority to sign]*

Section A: Framework Agreement Specific Provisions (FA Specific Provisions)

[this section is to be completed by the Procuring Agency as per the instructions provided in italicized text. The italicized text should be deleted from the final document]

<p>1. Procuring Agency's Representative and address for Notices Section B: FA Standard Provision 5</p>	<p>1.1 The name and contact details of the Procuring Agency's representative under this Framework Agreement, and the address for notices in relation to this Framework Agreement, are:</p> <p>Name: Shri-----</p> <p>Title/position: Project Director</p> <p>Address: Hon. Balasaheb Thackeray Agribusiness & Rural Transformation (SMART) Project, Department of Agriculture, Government of Maharashtra, Sheti Mahamandal Bhavan, 270, Bhamburda, Senapati Bapat Road, Pune – 411 016, Country: India</p> <p>Telephone: 020-25656577 & 020-25656578</p> <p>Email address: <i>pcmu.smart@gmail.com</i></p> <p>1.2 The Representatives for all other Participating Users are listed in Schedule 6 to this Framework Agreement.</p>
<p>2. Supplier's Representative Section B: FA Standard Provision 5</p>	<p>2.1 The name and contact details of the Supplier's (FA Holder's) Representative, for the purposes of this Framework Agreement, and the address for notices in relation to this Framework Agreement are:</p> <p>Name:</p> <p>Title/position:</p> <p>Address:</p> <p>Phone:</p> <p>Mobile:</p> <p>E-mail:</p>
<p>3. Documents comprising this Framework Agreement</p>	<p>3.1 This Framework Agreement shall be read as a whole. Where a documents is incorporated by reference into this Framework Agreement, it shall be deemed to form, and be read and construed, as part of this Framework Agreement.</p> <p>3.2 This Framework Agreement comprises the following documents:</p> <ol style="list-style-type: none"> a. Framework Agreement, including all Sections, Schedules and Changes to standard provisions b. Notification of Award/ Letter of Acceptance (from Primary

	<p>Procurement process)</p> <p>c. Letter of Bid (from Primary Procurement process)</p>
<p>4. Order of precedence</p>	<p>4.1 In the event of conflicts or discrepancies between the parts of, or documents forming, the Framework Agreement, interpretations shall be based on the following descending order of precedence:</p> <ul style="list-style-type: none"> a. any Change(s) to the Framework Agreement b. Section A: Framework Agreement Specific Provisions c. Section B: Framework Agreement Standard Provisions d. Section C: Definitions e. Schedule 3: Secondary Procurement and awarding a Call-off Contract f. Schedule 5: Forms for Call-off Contracts g. Letter of Acceptance (from Primary Procurement process) h. Letter of Bid (from Primary Procurement process) i. Schedule 1: Schedule of Requirements j. Schedule 2: Price Schedules k. any other Sections or Schedules to this Framework Agreement.
<p>5. Term Section B: FA Standard Provisions 4. a.</p>	<p>5.1 The Term of this Framework Agreement is one years. The Term begins on the Commencement Date (stated above) and ends at midnight on [<i>insert the end date {day, month, year}</i>].</p>
<p>6. Term extension(s) Section B: FA Standard Provision 4. b.</p>	<p>6.1 Extension to the Term may be permitted, subject to satisfactory performance, up to a maximum of two additional years on yearly basis (i.e. Term +1+1). The total Term of the Framework Agreement shall not exceed 3 years.</p>
<p>7. Goods Section B: FA Schedule 1</p>	<p>7.1 This Framework Agreement relates to the purchase and supply, under a separate Call-off Contract, of [<i>insert short title that describes the type of Goods, and any Related Services</i>]. The Goods, and Related Services, are more fully described in Schedule 1 including, where applicable: list of Goods, list of Related Services, Technical Specifications, Drawings and Inspections and Tests.</p>
<p>8. Closed Panel</p>	<p>8.1 This is a Closed Panel Framework Agreement. No new suppliers will be awarded FAs during the Term of the Framework Agreement(s).</p>
<p>9. Single/Multi-User</p>	<p>9.1 “This is a Multi-User Framework Agreement. All Participating Users are listed at Schedule 6.</p>

<p>10. Performance Security Section B: FA Standard Provision 9</p>	<p>10.1 (a) A Performance Security shall be required. The amount of Performance Security shall be Rs.... <i>[insert amount]</i>, valid up to 45 days after the date of completion of performance obligations under the FA and all call-off contracts including warranty obligations.</p> <p><i>[The amount of the Performance Security shall 2% (two %) of the value of total estimated quantity withdrawals at call-off stage against the Framework Agreement]</i></p> <p>(b) The Performance Security, if required, shall be in the form of a “Bank Guarantee” or “a cashier’s cheque or banker’s certified cheque or crossed demand draft or pay order” drawn in favour of the Procuring Agency. If it is in the form of a bank guarantee, it shall be in the Performance Security Form included in Section VIII Procuring Agency’s Forms.</p> <p>(c) The Performance Security shall be discharged by the Procuring Agency and returned to the Supplier not later than twenty-eight (28) days following the date of Completion of the Supplier’s performance obligations under the FA and all call-off contracts including warranty obligations.</p> <p>(d) In the event of any contractual amendment, the Supplier shall, within 28 days of receipt of such amendment, furnish the amendment to the Performance Security, rendering the same valid for the duration of the Contract, as amended for 45 days after the completion of performance obligations including warranty obligations.</p>
<p>11. Language Section B: FA Standard Provision 11</p>	<p>11.1 The language of this Framework Agreement, and any Call-off Contract is English.</p>
<p>12. In-eligible countries Section B: FA Standard Provision 12</p>	<p>12.1 Only eligible Suppliers, Goods and Related Services are permitted under this Framework Agreement, and any Call-off Contract. At present time, there are no in-eligible countries.</p>
<p>SECONDARY PROCUREMENT</p>	
<p>13. Contract Price Section B: FA Standard Provision 6</p>	<p>13.1 The Contract Price that will apply to the purchase of Goods under a Call-off Contract shall be based on a Mini-competition among FA Holders.</p> <p>a. Purchasers will invite online competitive quotes through www.mahatenders.gov.in from all the FA Holders and award the Call-off Contract based on the lowest evaluated cost. During this process a FA Holder cannot quote more than the</p>

	<p>price quoted by it during the Primary Procurement Process (as set out in the Framework Agreement, Schedule 2), with the appropriate price adjustment applied at the end of each year, if specified in the Framework Agreement.</p> <p>b. Repeated failure of a FA Holder to adhere to this provision or non-participation in Secondary Procurement Process may result in termination of its FA Agreement, by the Procuring Agency.</p>
14. Price adjustment	<p>14.1 Call-off Contracts shall be awarded through the Secondary Procurement method mini competition, and the price adjustment shall be applied to each Supplier's base price resulting in adjusted base prices. Suppliers shall not submit Bids or Quotes that are greater than their adjusted base prices.</p> <p>14.1 "No price adjustment is permitted under this Framework Agreement."</p>
<p>CHANGES TO SECTION B: FRAMEWORK AGREEMENT STANDARD PROVISIONS <i>[delete if not applicable]</i></p>	
15. Change to <i>[Insert name of topic e.g. "Copyright"]</i>	<p>15.1 <i>[Insert any modification, deletion or addition to the Framework Agreement Section B: Standard Provisions. As a heading, reference the appropriate paragraph in the Standard Provisions e.g. "Reference: Section B: Standard Provisions, paragraph 16"]</i></p> <p>a. <i>[insert details of the modification here]</i></p>

Section B: Framework Agreement Standard Provisions (FA Standard Provisions)

[the following text must not be modified by the Procuring Agency. Any changes to this Section must be recorded at the end of Section A: Framework Agreement Specific Provision, above]

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Section B

Framework Agreement Standard Provisions

1. FA Holder's appointment

- a. The Procuring Agency appoints the FA Holder as a potential supplier of Goods under this Framework Agreement. The FA Holder is eligible to be considered for the award of a Call-off Contract during the Term of this Framework Agreement.

2. FA Holder's obligations

- a. The FA Holder shall continue to offer for supply, to the Purchaser, for the Term of this Framework Agreement, the Goods, including any Related Services if applicable, described in the Framework Agreement Schedule 1: Schedule of Requirements.
- b. The FA Holder undertakes to supply the Goods under a Call-off Contract placed with the FA Holder by the Purchaser. The Goods supplied must be:
 - i. of the exact quality, type and as otherwise specified in the Framework Agreement, Schedule 1
 - ii. at the Contract Price specified in the Call-off Contract, and
 - iii. in such quantities, at such times and to such locations as specified in the Call-off Contract.
- c. The FA Holder agrees that the Call-Off Contract General Conditions of Contract set out in the Framework Agreement, Schedule 4, and any Call-off Contract Special Conditions of Contract set out in a Call-off Contract, shall apply to the supply of Goods and Related Services, if any. The FA Holder agrees that it will not, in its dealings with the Purchaser, seek to impose or rely on any other contractual terms which in any way vary or contradict the relevant Call-off Contract General and Special Conditions of Contract.

3. No obligation, expectation or exclusivity

- a. The FA Holder acknowledges that:
 - i. There is no obligation on the Procuring Agency or Purchaser(s) to purchase any Goods from the FA Holder during the Term of this Framework Agreement.
 - ii. No undertaking or any form of statement, promise, representation or obligation has been made by the Procuring Agency in respect of the total quantities or value of the Goods that may be ordered by it under this Framework Agreement. The FA Holder acknowledges and agrees that it has not entered into this Framework

Agreement on the basis of any such undertaking, statement, promise or representation.

- iii. In entering this Framework Agreement, no form of exclusivity has been granted by the Procuring Agency to the FA Holder. The Purchaser is, at all times, entitled to enter into other contracts and agreements with other FA Holders for the provision of any or all goods which are the same as or similar to the Goods and any Related Services, described in Schedule 1.

4. Term

- a. This Framework Agreement shall commence on the Commencement Date and, unless terminated earlier in accordance with the provisions of this Framework Agreement shall continue until the end of the Term.
- b. Where permitted in the Framework Agreement Specific Provisions the Term may be extended, at the Procuring Agency's sole discretion, and where there has been satisfactory performance by the FA Holder provided that the total Term of the Framework Agreement shall be no longer than initial Term plus two years.

5. Representative

- a. Each Party shall appoint and retain a Representative who shall be the primary point of contact for the other Party in relation to matters arising from this Framework Agreement. Should the Representative be replaced, the Party replacing the Representative shall promptly inform the other Party In Writing of the name and contact details of the new Representative. Any Representative appointed shall be able to make decisions on the day to day operation of the Framework Agreement. The Supplier confirms and agrees that it will be expected to work closely and cooperate fully with the Procuring Agency's Representative.

6. Contract Price

- a. The Contract Price for each Call-Off Contract, shall be calculated in accordance with the provisions of the Framework Agreement Schedule 2, or where this Framework Agreement permits the selection of a Supplier through a Secondary Procurement method based on competitive quotes, the price will be the lowest evaluated quote. Where the competitive quote method is used, FA Holders shall not quote a price that is greater than the price described in the Framework Agreement Schedule 2, as adjusted, if applicable, by the price adjustment formula described in the Framework Agreement, Section A. FA Holder may quote a price that is lesser than the price described in the Framework Agreement Schedule 2, (as adjusted, if applicable, by the price adjustment formula described in the Framework Agreement, Section A). The agreed Contract Price shall be stipulated in each Call-off Contract.

7. Conflict of interest

- a. The FA Holder shall take appropriate steps to ensure that the FA Holder, including its employees and subcontractors, is not placed in a position where, in the reasonable opinion of the Procuring Agency or Purchaser, there is, or may be, an actual conflict,

or a potential conflict, between the pecuniary or personal interests of the FA Holder, or its employees and subcontractors, and the duties owed to the Procuring Agency and Purchaser under the provisions of this Framework Agreement. The FA Holder will disclose to the Procuring Agency and Purchaser full particulars of any such conflict of interest which may arise.

8. Relationship between the Parties

- a. Each of the Parties is independent of the other and nothing contained in this Framework Agreement shall be construed to imply that there is any relationship between the Parties of partnership, or of principal/agent, or of employer/employee. There is no contractual relationship between the Parties, unless and until, a Call-off Contract is signed by both Parties. Accordingly, neither of the Parties shall have any right or authority to act on behalf of the other nor to bind the other by agreement or otherwise, unless expressly permitted by the terms of this Framework Agreement.

9. Performance Security

- a. If required as specified in the Framework Agreement Specific Provisions, the successful bidder shall, within twenty-one (21) days of the Letter of Acceptance for FA, provide a performance security for the performance of the FA and the call-off contracts, in the amount specified in FA Specific Provisions.
- b. The proceeds of the Performance Security shall be payable to the Procuring Agency as compensation for any loss resulting from the successful bidder's (FA Holder's) failure to complete its obligations under the Framework Agreement and any Call-off contracts.
- c. The Performance Security, if required, shall be denominated in Indian Rupees; and shall be in one of the format stipulated by the Procuring Agency in the Framework Agreement Specific Provisions.
- d. The Performance Security shall be discharged by the Procuring Agency and returned to the successful bidder (FA Holder) not later than twenty-eight (28) days following the date of Completion of the FA Holder's performance obligations under the Framework Agreement and all Call-off Contracts, including any warranty obligations, unless specified otherwise in the FA Specific Provisions.

10. Non-waiver

- a. Subject to paragraph 10.b of this Section, below, no relaxation, forbearance, delay, or indulgence by either Party in enforcing any provision of this Framework Agreement or any of the terms and conditions of a Call-off Contract, or the granting of time by either Party to the other, shall prejudice, affect, or restrict the rights of that Party under this Framework Agreement or a Call-off Contract. Neither shall any waiver, by either Party, of any breach of this Framework Agreement or any Call-off Contract, operate as waiver of any subsequent or continuing breach of this Framework Agreement or any Call-off Contract.

- b. Any waiver of a Party's rights, powers, or remedies under this Framework Agreement or any Call-off Contract must be In Writing, dated, and signed by the authorized representative of the Party granting such waiver, and must specify the right and the extent to which it is being waived.

11. Language

- a. This Framework Agreement, and any Call-off Contract, as well as all correspondence and documents relating to this Framework Agreement, and any Call-off Contract, exchanged by the Procuring Agency/Purchaser and FA Holder/Supplier, shall be written in the language specified in the Framework Agreement, Section A. Supporting documents and printed literature that are part of this Framework Agreement, and any Call-off Contract, may be in another language provided they are accompanied by an accurate translation of the relevant passages in the language specified, in which case, for purposes of interpretation of this Framework Agreement, and any Call-off Contract, this translation shall govern.
- b. The FA Holder shall bear all costs of translation to the governing language and all risks of the accuracy of such translation.

12. Eligibility

- a. The FA Holder/Supplier and its subcontractors, shall have the nationality of an eligible country. A FA Holder/Supplier or subcontractor, shall be deemed to have the nationality of a country if it is a citizen or constituted, incorporated, or registered, and operates in conformity with the provisions of the laws of that country.
- b. All Goods and Related Services to be supplied under the Contract and financed by the Bank shall have their origin in Eligible Countries. For the purpose of this provision, origin means the country where the Goods have been grown, mined, cultivated, produced, manufactured, or processed; or through manufacture, processing, or assembly, another commercially recognized article results that differs substantially in its basic characteristics from its components.
- c. If applicable, in-eligible Countries are listed in the Framework Agreement, Section A.
- d. To continue to be eligible under this Framework Agreement the FA Holder must not have been sanctioned by the Bank, pursuant to the Bank's Anti-Corruption Guidelines, and in accordance with its prevailing sanctions policies and procedures as set forth in the World Bank Group's Sanctions Framework as described in Section B, Framework Agreement Standard Provisions. Where the FA Holder/Supplier has been so sanctioned it will be ineligible for the duration of the period of time as the Bank shall have determined.

13. Notices

- a. Any notice given by one Party to the other pursuant to this Framework Agreement shall be In Writing to the address specified in the Framework Agreement, Section A. A notice shall be effective when delivered, or on the notice's effective date, whichever is later.

14. Fraud and Corruption

- a. The Bank requires compliance with the Bank's Anti-Corruption Guidelines and its prevailing sanctions policies and procedures, as described in the World Bank Group's Sanctions Framework, and more fully described in the Appendix to Schedule 4, Call-off Contract: General Conditions of Contract (GCC).
- b. The Procuring Agency requires the FA Holder/Supplier to disclose any commissions or fees that may have been paid or are to be paid to agents or any other party with respect to the Secondary Procurement process or execution of a Call-off Contract. The information disclosed must include at least the name and address of the agent or other party, the amount, and the purpose of the commission, gratuity or fee.

15. Records, inspections and audit

- a. The FA Holder shall keep, and shall make all reasonable efforts to cause its subcontractor(s), if any, to keep, accurate and systematic accounts and records in respect of this Framework Agreement, the Goods, and any Call-off Contract, in such form and details as will clearly identify relevant communications, time changes and costs.
- b. The FA Holder shall permit, and shall cause its subcontractor(s) and their personnel, if any, to permit, the Bank and/or persons appointed by the Bank, to inspect the site and/or the accounts and records relating to the Framework Agreement, and/or any Call-off Contract(s) awarded under the Framework Agreement, in relation to the procurement process, selection, contracting, execution or implementation, and to have such accounts and records audited by auditors appointed by the Bank, if requested by the Bank. Acts intended to materially impede the exercise of the Bank's inspection and audit rights constitute a prohibited practice and may result in the termination of this Framework Agreement, or any Call-off Contract (as well as to a determination of ineligibility pursuant to the Bank's prevailing sanctions procedures).

16. Confidential Information

- a. The Procuring Agency/Purchaser and the FA Holder shall keep confidential and shall not, without the consent in writing from the other, divulge to any third party any documents, data, or other information furnished directly or indirectly by either Party in connection with the Framework Agreement.
- b. The obligation of a Party under paragraph 16.a. above, shall not apply to information that:
 - i. the Procuring Agency/Purchaser or FA Holder need to share with the Bank or other institution(s) participating in the financing of a Call-off Contract
 - ii. now, or in future, enters the public domain through no fault of that Party
 - iii. can be proven to have been possessed by that Party at the time of disclosure and which was not previously obtained, directly or indirectly, from the other Party
 - iv. otherwise lawfully becomes available to that Party from a third party that has no obligation of confidentiality.

17. Governing Law

- a. This Framework Agreement, and any Call-off Contract, shall be governed by, and interpreted in accordance with, the laws of India.

18. Change to the Framework Agreement

- a. Any Change to this Framework Agreement, including an extension of the Term, must be In Writing and signed by both Parties. A Change can be made at any time after this Framework Agreement has been signed by both Parties, and before it expires.

19. Termination of the Framework Agreement

- a. The Procuring Agency may terminate this Framework Agreement immediately, by notice in Writing to the FA Holder, if:
 - i. in the judgement of the Procuring Agency, the FA Holder has engaged in Fraud and/or Corruption, as described in the World Bank Group's Sanctions Framework, and set out in the Appendix to Schedule 4, Call-off Contract General Conditions of Contract, has been sanctioned by the Bank in relation to Fraud and Corruption, or
 - ii. during the Term of the Framework Agreement, the FA Holder (including any subcontractor), Goods and/or Related Services become in-eligible, in breach of paragraph 13 of this Section, or
 - iii. the FA Holder purports to assign, sub-contract, or otherwise transfer or dispose of this Framework Agreement, in whole, or in part, in breach of paragraph 2 of this Section, or
 - iv. the FA Holder becomes bankrupt or otherwise insolvent.
 - v. the FA Holder fails to adhere to the FA provision that in the Secondary Procurement process, the FA Holder cannot quote more than the price quoted by it during the Primary Procurement Process with the appropriate price adjustment applied.
 - vi. the FA Holder is in breach of Call-off Contracts issued under FA
- b. The Procuring Agency may terminate this Framework Agreement, in whole or in part, by notice in writing sent to the FA Holder, at any time, for its convenience.
- c. A notice of termination under sub-paragraphs 19.a and 19.b shall specify the grounds for the termination and the date upon which the termination becomes effective.

20. Consequence of expiry or termination

- a. Upon expiry, or earlier termination of this Framework Agreement, all Call-off Contracts entered into under this Framework Agreement shall continue in full force and effect unless otherwise terminated under the Call-off Contract General or Specific Conditions of Contract.

21. Dispute resolution in relation to this Framework Agreement

- a. In the case of a dispute arising out of, or in connection with this Framework Agreement, the Parties shall, in good faith, make every reasonable effort to communicate and cooperate with each other with a view to amicably resolving the dispute.

22. Provisions that remain in force

- a. The provisions, that by their nature shall remain in force on expiry or termination of this Framework Agreement, include:
 - i. Section C: Definitions
 - ii. Section B, paragraph 2 FA Holder's/ Supplier's Obligations (for completing obligations under call-off contracts)
 - iii. Section B, paragraph 15 Records, inspections and audit
 - iv. Section B, paragraph 16 Confidential Information
 - v. Section B, paragraph 17 Governing Law
 - vi. Section B, paragraph 18 Termination of the Framework Agreement
 - vii. Section B, paragraph 21 Dispute resolution in relation to this Framework Agreement.

Section C: Framework Agreement Definitions

[the text in this Section must not be modified by the Procuring Agency. Any changes to definitions or interpretation must be recorded at the end of Section A: Specific Provisions]

<p>In this Framework Agreement the following defined terms shall have the following meanings, other than in relation to a Call-off Contract. The definitions and interpretations that apply to a Call-off Contract are set out in the Framework Agreement, Schedule 4 (GCC).</p>	
Bank	IBRD and/or IDA, whether acting on its own account or in its capacity as administrator of trust funds provided by other donors.
Business Day	A Business Day is any day that is an official working day of the Procuring Agency. It excludes the Procuring Agency's official public holidays.
Call-off Contract	A contract awarded under this Framework Agreement, and entered into between the Purchaser and Supplier, for the supply of Goods, and any Related Services.
Call-off Contract General Conditions of Contract (GCC)	The Call-off Contract terms and conditions for supply of the Goods, as set out in the Framework Agreement, Schedule 4, forming part of a Call-off Contract. These conditions may be supplemented by the Call-off Contract Special Conditions of Contract, as set out in the Call-off Contract and any Variations to the Framework Agreement or Amendments or Change Orders to the Call-off Contract.
Call-off Contract Special Conditions of Contract (SCC)	The specific terms and conditions that apply to an individual Call-off Contract, as described in the Call-off Contract as Special Conditions of Contract. These Special Conditions supplement and/or modify the Call-off Contract General Conditions of Contract as set out in the Framework Agreement, Schedule 4.
Closed Panel	Where there can be no new firms awarded a Framework Agreement during the Term of the Framework Agreement.
Commencement Date	Means the date this Framework Agreement is signed by both the parties, being the commencement of the Term.
Confidential Information	Information, data and material which is commercially sensitive or confidential to either Party, and which either Party may receive or obtain in connection with the conclusion and/or operation of this Framework Agreement.
Contract Price	The price that is payable to the Supplier by a Purchaser under any Call-off Contract for the full and proper performance by the Supplier of its

	obligations under such contract. The Contract Price is calculated in accordance with the Standard and Specific provisions of the Framework Agreement, Provision 6.
Day	Means calendar day, unless otherwise specified as “Business Day.”
Framework Agreement	Means this Agreement, including all Sections, Schedules and Changes to standard provisions.
Framework Agreement Specific Provisions	The particular provisions that apply to this Framework Agreement, as set out in the Framework Agreement, Section A.
Framework Agreement Standard Provisions	The standard provisions that apply to all similar Framework Agreements, as set out in the Framework Agreement, Section B.
Fraud and Corruption	Fraud and Corruption provisions applicable to this Framework Agreement and all Call-off contracts, as detailed in Section VI – Fraud and Corruption.
Goods	All goods, materials or items that the Supplier is required to supply to a Purchaser under a Call-off Contract placed under this Framework Agreement. Details of such Goods, and Related Services, are set out in Schedule 1 and described in the Call-off Contract. Where appropriate, for the purpose of interpretation, the definition for Goods includes Related Services.
In Writing	This means communicated or recorded in written form with proof of receipt. It includes, for example: mail, e-mail, or fax.
Incoterms	The international commercial terms published by the International Chamber of Commerce (ICC).
Invitation to Quote (ITQ)	A method of Secondary Procurement using mini-competition. FA Holders are invited to quote for a specific contract and are encouraged to submit competitive pricing. The lowest conforming quote, not exceeding the adjusted base price in the framework agreement, is selected as the successful Supplier, who is awarded a Call-off Contract.
Parties	The Parties to the Framework Agreement are the Procuring Agency and the FA Holder (Supplier).
Participating User	Agencies that are permitted to purchase Goods under a Call-off Contract. They are listed in a Schedule to this Framework Agreement. They are represented in the management and administration of the

	Framework Agreement by the Procuring Agency.
Purchaser	The agencies that purchase Goods from the Supplier under a Call-off Contract awarded under this Framework Agreement. The term 'Purchaser' includes all Participating Users (and Procuring Agency, if it is also a User) as listed in the relevant Schedule to this Framework Agreement.
Related Services	The services incidental to the supply of the Goods, such as insurance, installation, training and initial maintenance and other such obligations of the Supplier under the Call-off Contract.
Representative	The person named in the Framework Agreement who has authority to act on behalf of the Procuring Agency, or Supplier in relation to the Framework Agreement.
Secondary Procurement	The method used to select a Supplier and award a Call-off Contract under this Framework Agreement.
Supplier	The firm that has been awarded this Framework Agreement to supply Goods to the Purchaser under a Call-off Contract awarded under this Framework Agreement. For the purpose of interpretation, Supplier can mean the firm that has been awarded the Framework Agreement, or the supplier of the Goods, as is appropriate.
Term	The duration of this Framework Agreement as described in the Framework Agreement, Section A starting on the Commencement Date. Where applicable, it includes any extension(s) to the initial Term, if permitted in the Framework Agreement, Section A.
Change	A variation, modification, amendment, deletion or addition to this Framework Agreement, including its Sections and/or Schedules, agreed between the Procuring Agency and the Supplier In Writing.

SCHEDULE 1: Schedule of Requirements

[insert the description of the Goods, requirements and technical specifications e.g.:]

Contents

1. List of Goods
2. List of Related Services
3. Technical Specifications
4. Drawings
5. Inspections and Tests

SCHEDULE 2: Price Schedules

[insert the price/pricing methodology and price schedules as appropriate e.g.:]

Contents

1. Price for Goods for supply as per Schedule of Requirements
2. Price for Related Services

SCHEDULE 3: Secondary Procurement

1. Secondary Procurement method(s)

*[Note 1: The Purchaser **must** set out the procedure(s) and award criteria (Secondary Procurement method) that will apply to the selection of a Supplier in order to award a Call-off Contract. The Secondary Procurement method(s) to be described in this Schedule must be consistent with the Secondary Procurement method(s) set out in the Request for Bids which established the Framework Agreement.*

*Note 2: **Ceiling on Value of Call-off Contracts:** the total value of Call-off contracts against the Framework Agreement(s) shall not exceed Rs -108.00 Cr [insert an amount not exceeding 1.5 times the estimated value of Call-off contracts against the FA(s) unless the duration of the framework agreement is extended under ITB 1.2(u)]*

The following Secondary Procurement method will be used by the Purchaser to select a Supplier and award a Call-off Contract under this Framework Agreement.

<p>1. Secondary Procurement method(s)</p>	<p>1.1 The Secondary Procurement method that applies to the selection of a Supplier for the award of a Call-off Contract under this Framework Agreement is:</p> <p>a. <i>Competitive quotes under Mini Competition</i></p>
<p>2. Competitive Quotes</p>	<p><u>Secondary Procurement: Competitive Quotes</u></p> <p>2.1 <i>The Purchaser will prepare an E-Invitation to Quote (E-ITQ) and invite all eligible Suppliers holding a Framework Agreement to submit competitive quotes through the www.mahatenders.gov.in portal. This process is called 'mini-competition'. The ITQ will identify:</i></p> <p>a. <i>the Goods, and any Related Services, to be delivered</i></p> <p>b. <i>delivery location(s)</i></p> <p>c. <i>delivery date(s) or schedule</i></p> <p>d. <i>quantity</i></p> <p>e. <i>the award criteria, e.g.:</i></p> <p><i>The Purchaser shall award the Call-off Contract to the Supplier whose Bid(s) has been determined to be:</i></p> <p>i. <i>substantially responsive to the ITQ; and</i></p> <p>ii. <i>the lowest evaluated cost not exceeding the adjusted base price in the Framework Agreement;</i></p> <p>f. <i>deadline for submission of quotes;</i></p> <p>g. <i>reference the Call-off Contract Terms and Conditions of supply, which are to apply to the purchase</i></p> <p>h. <i>any other relevant information.</i></p>

	<p>2.2 <i>Suppliers may not quote a price that is greater than the price stated in the Framework Agreement, Schedule 2, as adjusted by the agreed price adjustment formula, if applicable.</i></p> <p>2.3 <i>A Supplier may quote discounts for bulk purchases that may be awarded in call-off contract.</i></p> <p>2.4 <i>The Purchaser shall evaluate the quotes and identify the lowest price conforming quote not exceeding the adjusted base price in the Framework Agreement, for award of the Call-off Contract.</i></p> <p>2.5 <i>Procurement of Higher Make/Model During Call-Off Stage</i></p> <p><i>During the Call-Off Stage, in the event that the Community-Based Organization (CBO) opts to procure a higher make/model, upgraded specifications, or additional features beyond those prescribed in the Schedule of Requirements, the following conditions shall apply:</i></p> <ul style="list-style-type: none"> <i>a. The CBO shall prepare and submit an Additional Price Schedule clearly detailing the extra specifications, features, or upgraded model selected.</i> <i>b. The corresponding prices shall be obtained from the selected Framework Agreement (FA) Supplier during the Call-Off Stage.</i> <i>c. Price comparison shall strictly be carried out based on the prescribed specifications mentioned in the Schedule of Requirements under the Framework Agreement.</i> <i>d. Any incremental cost arising from the selection of an upgraded make/model or additional features shall be borne by the CBO from its own funds.</i> <i>e. Project financing shall remain strictly limited to the approved sub-project scope, and the cost norms established by the Government. No additional financial liability on account of such upgraded procurement shall be passed on to the Project.</i>
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2. Procedure for awarding a Call-off Contract

Following the selection of a suitable Supplier, by applying a Secondary Procurement method as described above, a Call-off Contracts is formed by the Purchaser by completing and sending the Call-off Contract (reference Form CC-1) to the Supplier. At this point there is a legally binding contract for the supply and delivery of the specified Goods, and if required, Related Services, between the Purchaser named in the Call-off Contract, and the Supplier.

SCHEDULE 4: Call-off Contract General Conditions of Contract

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Call-off Contract

General Conditions of Contract (GCC)

Preamble

The following Call-off Contract General Conditions of Contract apply to any Call-off Contract awarded under this Framework Agreement between the Purchaser and the Supplier. These General Conditions of Contract may be supplemented by the Call-off Contract Special Conditions of Contract contained in the individual Call-off Contract.

- 1. Definitions**
- 1.1 The following words and expressions shall have the meanings hereby assigned to them:
- (a) **“Bank”** means the World Bank and refers to the International Bank for Reconstruction and Development (IBRD) and/or the International Development Association (IDA).
 - (b) **“Clause”** means a clause in these General Conditions of Contract.
 - (c) **“Contract”** means the Call-off Contract awarded under the Framework Agreement entered into between the Purchaser and the Supplier, together with the Contract Documents referred to therein, including all Sections, Schedules and Variations to the Framework Agreement, and any Special Conditions of Contract and amendments to the Call-off Contract.
 - (d) **“Contract Documents”** means the documents listed in the Framework Agreement, and, if applicable, the Call-off Contract, including any Variations or amendments thereto.
 - (e) **“Contract Price”** means the price payable to the Supplier as specified in the Call-off Contract, subject to such additions and adjustments thereto or deductions therefrom, as may be made pursuant to the Contract.
 - (f) **“Day”** means calendar day.
 - (g) **“Completion”** means the fulfillment of the Related Services by the Supplier in accordance with the terms and conditions set forth in the Contract.
 - (h) **“GCC”** means these General Conditions of Contract that

apply to a Call-off Contract awarded under the Framework Agreement.

- (i) “**Goods**” means all of the commodities, raw material, machinery and equipment, and/or other materials that the Supplier is required to supply to the Purchaser under the Contract.
- (j) “**Purchaser’s Country**” is India.
- (k) “**Purchaser**” means the entity purchasing the Goods and Related Services, as specified in the Call-off Contract.
- (l) “**Related Services**” means the services incidental to the supply of the Goods, such as insurance, installation, training and initial maintenance and other such obligations of the Supplier under the Contract.
- (m) “**SCC**” means the Special Conditions of Contract as set out in an individual Call-off Contract.
- (n) “**Subcontractor**” means any person, private or government entity, or a combination of the above, to whom any part of the Goods to be supplied or execution of any part of the Related Services is subcontracted by the Supplier.
- (o) “**Supplier**” means the firm, company or business that has been awarded a Framework Agreement by the Purchaser to deliver the Goods, and perform the Related Services, as and when required.
- (p) “**Project Site,**” where applicable, means the place named in the SCC.

2. Contract Documents

2.1 Subject to the order of precedence set forth in the Framework Agreement, Section A, all documents forming the Contract (and all parts thereof) are intended to be correlative, complementary, and mutually explanatory. The Contract shall be read as a whole.

3. Fraud and Corruption

3.1 The Bank requires compliance with the Bank’s Anti-Corruption Guidelines and its prevailing sanctions policies and procedures as set forth in the World Bank Group’s Sanctions Framework, as set forth in the Appendix to these GCC.

3.2 The Purchaser requires the Supplier to disclose any commissions or fees that may have been paid or are to be paid to agents or any other party with respect to the Bidding process or execution of the

Contract. The information disclosed must include at least the name and address of the agent or other party, the amount and currency, and the purpose of the commission, gratuity or fee.

4. Interpretation

4.1 If the context so requires it, singular means plural and vice versa.

4.2 Incoterms

(a) Unless inconsistent with any provision of the Contract, the meaning of any trade term and the rights and obligations of parties thereunder shall be as prescribed by Incoterms **specified in the Call-off Contract SCC**.

(b) The terms EXW and other similar terms, when used, shall be governed by the rules prescribed in the current edition of Incoterms specified in the **Call-off Contract SCC** and published by the International Chamber of Commerce in Paris, France.

4.3 Entire Agreement

The Contract including these General Conditions of Contract, and any Special Conditions of Contract set out in the Call-off Contract, and any relevant provisions of the Framework Agreement, constitutes the entire agreement between the Purchaser and the Supplier and supersedes all communications, negotiations and agreements (whether written or oral) of the parties with respect thereto made prior to the date of Contract.

4.4 Amendment

No amendment or other variation of the Contract shall be valid unless it is in writing, is dated, expressly refers to the Contract, and is signed by a duly authorized representative of each party thereto.

4.5 Nonwaiver

(a) Subject to GCC Sub-Clause 4.5(b) below, no relaxation, forbearance, delay, or indulgence by either party in enforcing any of the terms and conditions of the Contract or the granting of time by either party to the other shall prejudice, affect, or restrict the rights of that party under the Contract, neither shall any waiver by either party of any breach of Contract operate as waiver of any subsequent or continuing breach of Contract.

(b) Any waiver of a party's rights, powers, or remedies under the Contract must be in writing, dated, and signed by an authorized representative of the party granting such

waiver, and must specify the right and the extent to which it is being waived.

4.6 Severability

If any provision or condition of the Contract is prohibited or rendered invalid or unenforceable, such prohibition, invalidity or unenforceability shall not affect the validity or enforceability of any other provisions and conditions of the Contract.

5. Language

5.1 The Contract as well as all correspondence and documents relating to the Contract exchanged by the Supplier and the Purchaser, shall be written in English. Supporting documents and printed literature that are part of the Contract may be in another language provided they are accompanied by an accurate translation of the relevant passages in the language specified, in which case, for purposes of interpretation of the Contract, this translation shall govern.

5.2 The Supplier shall bear all costs of translation to the governing language and all risks of the accuracy of such translation, for documents provided by the Supplier.

6. Joint Venture Consortium or Association

6.1 Deleted.

7. Eligibility

7.1 The Supplier and its Subcontractors shall have the nationality of an eligible country. A Supplier or Subcontractor shall be deemed to have the nationality of a country if it is a citizen or constituted, incorporated, or registered, and operates in conformity with the provisions of the laws of that country.

7.2 All Goods and Related Services to be supplied under the Contract and financed by the Bank shall have their origin in Eligible Countries. For the purpose of this Clause, origin means the country where the Goods have been grown, mined, cultivated, produced, manufactured, or processed; or through manufacture, processing, or assembly, another commercially recognized article results that differs substantially in its basic characteristics from its components.

8. Notices

8.1 Any notice given by one party to the other pursuant to the Contract shall be in writing to the address specified in the SCC. The term “in writing” means communicated in written form with proof of receipt.

8.2 A notice shall be effective when delivered or on the notice’s

effective date, whichever is later.

- 9. Governing Law**
- 9.1 The Contract shall be governed by and interpreted in accordance with the laws of the Union of India.
- 9.2 Throughout the execution of the Contract, the Supplier shall comply with the import of Goods and services prohibitions in the Purchaser's Country when
- (a) as a matter of law or official regulations, the Purchaser's country prohibits commercial relations with that country; or
 - (b) by an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, the Borrower's Country prohibits any import of Goods from that country or any payments to any country, person, or entity in that country.
- 10. Settlement of Disputes**
- 10.1 The Purchaser and the Supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.
- 10.2 If, after twenty-eight (28) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the Purchaser or the Supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided, as to the matter in dispute, and no arbitration in respect of this matter may be commenced unless such notice is given. Any dispute or difference in respect of which a notice of intention to commence arbitration has been given in accordance with this Clause shall be finally settled by arbitration. Arbitration may be commenced prior to or after delivery of the Goods under the Contract. Arbitration proceedings shall be conducted in accordance with the rules of procedure specified in the SCC.
- 10.3 Notwithstanding any reference to arbitration herein,
- (a) the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree; and
 - (b) the Purchaser shall pay the Supplier any monies due the Supplier.
- 11. Inspections and Audit by the Bank**
- 11.1 The Supplier shall keep, and shall make all reasonable efforts to cause its Subcontractors to keep, accurate and systematic accounts and records in respect of the Goods in such form and details as will

clearly identify relevant time changes and costs.

11.2 Pursuant to the World Bank Group's Sanctions Framework, as set forth in the Appendix to these GCC, the Supplier shall permit and shall cause its subcontractors and sub-consultants and their personnel to permit, the Bank and/or persons appointed by the Bank to inspect the Site and/or the accounts and records relating to the procurement process, selection and/or contract execution, and to have such accounts and records audited by auditors appointed by the Bank if requested by the Bank. The Supplier's and its Subcontractors' and sub-consultants' attention is drawn to Sub-Clause 3.1 which provides, inter alia, that acts intended to materially impede the exercise of the Bank's inspection and audit rights constitute a prohibited practice subject to contract termination (as well as to a determination of ineligibility pursuant to the Bank's prevailing sanctions procedures).

- 12. Scope of Supply** 12.1 The Goods and Related Services to be supplied shall be as specified in the Call-off Contract.
- 13. Delivery and Documents** 13.1 Subject to GCC Sub-Clause 33.1, the Delivery of the Goods and Completion of the Related Services shall be in accordance with the Delivery and Completion dates, or schedule, specified in the Call-off Contract. The details of shipping and other documents to be furnished by the Supplier are specified in the SCC.
- 14. Supplier's Responsibilities** 14.1 The Supplier shall supply all the Goods and Related Services included in the scope of supply in accordance with GCC Clause 12, and the delivery and completion dates or schedule, as per GCC Clause 13.
- 15. Contract Price** 15.1 Prices charged by the Supplier for the Goods supplied and the Related Services performed under the Contract shall be in accordance with the provisions of the Framework Agreement, Schedule 2, after the application of any price adjustments authorized in the SCC, with the exception of a price obtained through competitive quotes at the Secondary Procurement selection stage.
- 16. Terms of Payment** 16.1 The Contract Price, including any Advance Payments, if applicable, shall be paid as specified in the SCC.
- 16.2 The Supplier's request for payment shall be made to the Purchaser in writing, accompanied by invoices describing, as appropriate, the Goods delivered and Related Services performed, and by the documents submitted pursuant to GCC Clause 13 and upon fulfillment of all other obligations stipulated in the Contract.

- 16.3 Payments shall be made promptly by the Purchaser, but in no case later than sixty (60) days after submission of an invoice or request for payment by the Supplier, and after the Purchaser has accepted it.
- 16.4 The payments shall be made to the Supplier under this Contract in Indian Rupees.
- 16.5 In the event that the Purchaser fails to pay the Supplier any payment by its due date or within the period set forth in the SCC, the Purchaser shall pay to the Supplier interest on the amount of such delayed payment at the rate shown in the SCC, for the period of delay until payment has been made in full, whether before or after judgment or arbitration award.
- 17. Taxes and Duties**
- 17.1 The Supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted Goods to the Purchaser.
- 18. Performance Security**
- 18.1 The performance security provided by the Supplier on award of Framework Agreement is for the performance of the FA and the call-off contracts.
- 19. Copyright**
- 19.1 The copyright in all drawings, documents, and other materials containing data and information furnished to the Purchaser by the Supplier herein shall remain vested in the Supplier, or, if they are furnished to the Purchaser directly or through the Supplier by any third party, including suppliers of materials, the copyright in such materials shall remain vested in such third party
- 20. Confidential Information**
- 20.1 The Purchaser and the Supplier shall keep confidential and shall not, without the written consent of the other party hereto, divulge to any third party any documents, data, or other information furnished directly or indirectly by the other party hereto in connection with the Contract, whether such information has been furnished prior to, during or following completion or termination of the Contract. Notwithstanding the above, the Supplier may furnish to its Subcontractor such documents, data, and other information it receives from the Purchaser to the extent required for the Subcontractor to perform its work under the Contract, in which event the Supplier shall obtain from such Subcontractor an undertaking of confidentiality similar to that imposed on the Supplier under GCC Clause 20.
- 20.2 The Purchaser shall not use such documents, data, and other information received from the Supplier for any purposes

unrelated to the contract. Similarly, the Supplier shall not use such documents, data, and other information received from the Purchaser for any purpose other than the performance of the Contract.

20.3 The obligation of a party under GCC Sub-Clauses 20.1 and 20.2 above, however, shall not apply to information that:

- (a) the Purchaser or Supplier need to share with the Bank or other institutions participating in the financing of the Contract;
- (b) now or hereafter enters the public domain through no fault of that party;
- (c) can be proven to have been possessed by that party at the time of disclosure and which was not previously obtained, directly or indirectly, from the other party; or
- (d) otherwise lawfully becomes available to that party from a third party that has no obligation of confidentiality.

20.4 The above provisions of GCC Clause 20 shall not in any way modify any undertaking of confidentiality given by either of the parties hereto prior to the date of the Contract in respect of the Supply or any part thereof.

20.5 The provisions of GCC Clause 20 shall survive completion or termination, for whatever reason, of the Contract.

21. Subcontracting

21.1 The Supplier shall notify the Purchaser in writing of all subcontracts awarded under the Contract if not already specified in the Bid. Such notification, in the original Bid or later shall not relieve the Supplier from any of its obligations, duties, responsibilities, or liability under the Contract.

21.2 Subcontracts shall comply with the provisions of GCC Clauses 3 and 7.

22. Specifications and Standards

22.1 Technical Specifications and Drawings

- (a) The Goods and Related Services supplied under this Contract shall conform to the technical specifications and standards more fully described in the Framework Agreement, Schedule 1.
- (b) The Supplier shall be entitled to disclaim responsibility for any design, data, drawing, specification or other document, or any modification thereof provided or designed by or on behalf of the Purchaser, by giving a notice of such

disclaimer to the Purchaser.

- (c) Wherever references are made in the Contract to codes and standards in accordance with which it shall be executed, the edition or the revised version of such codes and standards shall be those specified in the Framework Agreement, Schedule 1. During Contract execution, any changes in any such codes and standards shall be applied only after approval by the Purchaser and shall be treated in accordance with GCC Clause 33.

23. Packing and Documents

23.1 The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract. During transit, the packing shall be sufficient to withstand, without limitation, rough handling and exposure to extreme temperatures, salt and precipitation, and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit.

23.2 The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified in the SCC, and in any other instructions ordered by the Purchaser.

24. Insurance

24.1 Unless otherwise specified in the SCC, the Goods supplied under the Contract shall be fully insured, against loss or damage incidental to manufacture or acquisition, transportation, storage, and delivery, in accordance with the applicable Incoterms or in the manner specified in the SCC.

25. Transportation and Incidental Services

25.1 Unless otherwise specified in the SCC, responsibility for arranging transportation of the Goods shall be in accordance with the specified Incoterms.

25.2 The Supplier may be required to provide any or all of the following Related Services, including additional Related Services, if any, specified in SCC:

- (a) performance or supervision of on-site assembly and/or start-up of the supplied Goods;
- (b) furnishing of tools required for assembly and/or maintenance of the supplied Goods;
- (c) furnishing of a detailed operations and maintenance manual in English and in another language, if so specified in SCC,

for each appropriate unit of the supplied Goods;

- (d) performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and
- (e) training of the Purchaser's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods.

25.3 Prices charged by the Supplier for incidental Related Services, if not included in the Contract Price for the Goods, shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services

26. Inspections and Tests

26.1 The Supplier shall at its own expense and at no cost to the Purchaser carry out all such tests and/or inspections of the Goods and Related Services as are specified in the **Framework Agreement, Schedule 1, and/or the SCC**.

26.2 The inspections and tests may be conducted on the premises of the Supplier or its Subcontractor, at point of delivery, and/or at the Goods' final destination, or in another place in the Purchaser's Country as specified in the **SCC**. Subject to GCC Sub-Clause 26.3, if conducted on the premises of the Supplier or its Subcontractor, all reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to the Purchaser.

26.3 The Purchaser or its designated representative shall be entitled to attend the tests and/or inspections referred to in GCC Sub-Clause 26.2, provided that the Purchaser bear all of its own costs and expenses incurred in connection with such attendance including, but not limited to, all traveling and board and lodging expenses.

26.4 Whenever the Supplier is ready to carry out any such test and inspection, it shall give a reasonable advance notice, including the place and time, to the Purchaser. The Supplier shall obtain from any relevant third party or manufacturer any necessary permission or consent to enable the Purchaser or its designated representative to attend the test and/or inspection.

26.5 The Purchaser may require the Supplier to carry out any test and/or inspection not required by the Contract but deemed necessary to verify that the characteristics and performance of

the Goods comply with the technical specifications codes and standards under the Contract, provided that the Supplier's reasonable costs and expenses incurred in the carrying out of such test and/or inspection shall be added to the Contract Price. Further, if such test and/or inspection impedes the progress of manufacturing and/or the Supplier's performance of its other obligations under the Contract, due allowance will be made in respect of the Delivery Dates and Completion Dates and the other obligations so affected.

26.6 The Supplier shall provide the Purchaser with a report of the results of any such test and/or inspection.

26.7 The Purchaser may reject any Goods or any part thereof that fail to pass any test and/or inspection or do not conform to the specifications. The Supplier shall either rectify or replace such rejected Goods or parts thereof or make alterations necessary to meet the specifications at no cost to the Purchaser, and shall repeat the test and/or inspection, at no cost to the Purchaser, upon giving a notice pursuant to GCC Sub-Clause 26.4.

26.8 The Supplier agrees that neither the execution of a test and/or inspection of the Goods or any part thereof, nor the attendance by the Purchaser or its representative, nor the issue of any report pursuant to GCC Sub-Clause 26.6, shall release the Supplier from any warranties or other obligations under the Contract.

27. Liquidated Damages

27.1 Except as provided under GCC Clause 32, if the Supplier fails to deliver any or all of the Goods by the Date(s) of delivery or perform the Related Services within the period specified in the Contract, the Purchaser may without prejudice to all its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in the SCC of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the percentage specified in those SCC. Once the maximum is reached, the Purchaser may terminate the Contract pursuant to GCC Clause 35.

28. Warranty

28.1 The Supplier warrants that all the Goods are new, unused, and of the most recent or current models, and that they incorporate all recent improvements in design and materials, unless provided otherwise in the Contract.

28.2 Subject to GCC Sub-Clause 22.1(b), the Supplier further warrants that the Goods shall be free from defects arising from any act or omission of the Supplier or arising from design,

materials, and workmanship, under normal use in the conditions prevailing in the country of final destination.

28.3 Unless otherwise specified in the **SCC**, the warranty shall remain valid for twelve (12) months after the Goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the **SCC**, or for eighteen (18) months after the date of shipment, whichever period concludes earlier.

28.4 The Purchaser shall give notice to the Supplier stating the nature of any such defects together with all available evidence thereof, promptly following the discovery thereof. The Purchaser shall afford all reasonable opportunity for the Supplier to inspect such defects.

28.5 Upon receipt of such notice, the Supplier shall, within the period specified in the **SCC**, expeditiously repair or replace the defective Goods or parts thereof, at no cost to the Purchaser.

28.6 If having been notified, the Supplier fails to remedy the defect within the period specified in the **SCC**, the Purchaser may proceed to take within a reasonable period such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Purchaser may have against the Supplier under the Contract.

29. Patent Indemnity

29.1 The Supplier shall, subject to the Purchaser's compliance with GCC Sub-Clause 29.2, indemnify and hold harmless the Purchaser and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which the Purchaser may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, or other intellectual property right registered or otherwise existing at the date of the Contract by reason of:

- (a) the installation of the Goods by the Supplier or the use of the Goods in the country where the Site is located; and
- (b) the sale in any country of the products produced by the Goods.

Such indemnity shall not cover any use of the Goods or any part thereof other than for the purpose indicated by or to be reasonably inferred from the Contract, neither any infringement resulting from the use of the Goods or any part

thereof, or any products produced thereby in association or combination with any other equipment, plant, or materials not supplied by the Supplier, pursuant to the Contract.

29.2 If any proceedings are brought or any claim is made against the Purchaser arising out of the matters referred to in GCC Sub-Clause 29.1, the Purchaser shall promptly give the Supplier a notice thereof, and the Supplier may at its own expense and in the Purchaser's name conduct such proceedings or claim and any negotiations for the settlement of any such proceedings or claim.

29.3 If the Supplier fails to notify the Purchaser within twenty-eight (28) days after receipt of such notice that it intends to conduct any such proceedings or claim, then the Purchaser shall be free to conduct the same on its own behalf.

29.4 The Purchaser shall, at the Supplier's request, afford all available assistance to the Supplier in conducting such proceedings or claim, and shall be reimbursed by the Supplier for all reasonable expenses incurred in so doing.

29.5 The Purchaser shall indemnify and hold harmless the Supplier and its employees, officers, and Subcontractors from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which the Supplier may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, or other intellectual property right registered or otherwise existing at the date of the Contract arising out of or in connection with any design, data, drawing, specification, or other documents or materials provided or designed by or on behalf of the Purchaser.

30. Limitation of Liability

30.1 Except in cases of criminal negligence or willful misconduct,

- (a) the Supplier shall not be liable to the Purchaser, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the Supplier to pay liquidated damages to the Purchaser and
- (b) the aggregate liability of the Supplier to the Purchaser, whether under the Contract, in tort or otherwise, shall not exceed the total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective

equipment, or to any obligation of the supplier to indemnify the Purchaser with respect to patent infringement

31. Change in Laws and Regulations

31.1 Unless otherwise specified in the Contract, if after the date of 28 days prior to date of a Call-off Contract, any law, regulation, ordinance, order or bylaw having the force of law is enacted, promulgated, abrogated, or changed in India where the Site is located (which shall be deemed to include any change in interpretation or application by the competent authorities) that subsequently affects the Delivery Date and/or the Contract Price, then such Delivery Date and/or Contract Price shall be correspondingly increased or decreased, to the extent that the Supplier has thereby been affected in the performance of any of its obligations under the Contract. Notwithstanding the foregoing, such additional or reduced cost shall not be separately paid or credited if the same has already been accounted for in the price adjustment provisions where applicable, in accordance with GCC Clause 15.

32. Force Majeure

32.1 The Supplier shall not be liable for forfeiture of its Performance Security, liquidated damages, or termination for default if and to the extent that its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

32.2 For purposes of this Clause, "Force Majeure" means an event or situation beyond the control of the Supplier that is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of the Supplier. Such events may include, but not be limited to, acts of the Purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.

32.3 If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

33. Change Orders and Contract Amendments

33.1 The Purchaser may at any time order the Supplier through notice in accordance GCC Clause 8, to make changes within the general scope of the Contract in any one or more of the following:

- (a) drawings, designs, or specifications, where Goods to be furnished under the Contract are to be specifically

manufactured for the Purchaser;

(b) the method of shipment or packing;

(c) the place of delivery; and

(d) the Related Services to be provided by the Supplier.

33.2 If any such change causes an increase or decrease in the cost of, or the time required for, the Supplier's performance of any provisions under the Contract, an equitable adjustment shall be made in the Contract Price or in the Delivery/Completion schedule, or both, and the Contract shall accordingly be amended. Any claims by the Supplier for adjustment under this Clause must be asserted within twenty-eight (28) days from the date of the Supplier's receipt of the Purchaser's change order.

33.3 Prices to be charged by the Supplier for any Related Services that might be needed but which were not included in the Contract shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services.

33.4 Subject to the above, no variation in or modification of the terms of the Contract shall be made except by written amendment signed by the parties.

34. Extensions of Time

34.1 If at any time during performance of the Contract, the Supplier or its subcontractors should encounter conditions impeding timely delivery of the Goods or completion of Related Services pursuant to GCC Clause 13, the Supplier shall promptly notify the Purchaser in writing of the delay, its likely duration, and its cause. As soon as practicable after receipt of the Supplier's notice, the Purchaser shall evaluate the situation and may at its discretion extend the Supplier's time for performance, in which case the extension shall be ratified by the parties by amendment of the Contract.

34.2 Except in case of Force Majeure, as provided under GCC Clause 32, a delay by the Supplier in the performance of its Delivery and Completion obligations shall render the Supplier liable to the imposition of liquidated damages pursuant to GCC Clause 26, unless an extension of time is agreed upon, pursuant to GCC Sub-Clause 34.1.

35. Termination

35.1 Termination for Default

(a) The Purchaser, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate the Contract in whole or in part:

(i) if the Supplier fails to deliver any or all of the Goods

within the period specified in the Contract, or within any extension thereof granted by the Purchaser pursuant to GCC Clause 34;

- (ii) if the Supplier fails to perform any other obligation under the Contract; or
 - (iii) if the Supplier, in the judgment of the Purchaser has engaged in Fraud and Corruption, as defined in the World Bank Group's Sanctions Framework, as set forth in the Appendix to this GCC, in competing for or in executing the Contract.
- (b) In the event the Purchaser terminates the Contract in whole or in part, pursuant to GCC Clause 35.1(a), the Purchaser may procure, upon such terms and in such manner as it deems appropriate, Goods or Related Services similar to those undelivered or not performed, and the Supplier shall be liable to the Purchaser for any additional costs for such similar Goods or Related Services. However, the Supplier shall continue performance of the Contract to the extent not terminated.

35.2 Termination for Insolvency.

- (a) The Purchaser may at any time terminate the Contract by giving notice to the Supplier if the Supplier becomes bankrupt or otherwise insolvent. In such event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy that has accrued or will accrue thereafter to the Purchaser

35.3 Termination for Convenience.

- (a) The Purchaser, by notice sent to the Supplier, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the Purchaser's convenience, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective.
- (b) The Goods that are complete and ready for shipment within twenty-eight (28) days after the Supplier's receipt of notice of termination shall be accepted by the Purchaser at the Contract terms and prices. For the remaining Goods, the Purchaser may elect:

- (i) to have any portion completed and delivered at the Contract terms and prices; and/or
- (ii) to cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and Related Services and for materials and parts previously procured by the Supplier.

36. Assignment

36.1 The Supplier shall not assign, in whole or in part, its obligations under this Contract, except with prior written consent of the Purchaser.

Appendix

to Schedule 4: Call-off Contract General Conditions of Contract

Fraud and Corruption

(Text in this Appendix shall not be modified)

1. Purpose

1.1 The Bank's Anti-Corruption Guidelines and this Appendix apply with respect to procurement under Bank Investment Project Financing operations.

2. Requirements

2.1 The Bank requires that Borrowers (including beneficiaries of Bank financing); Bidders (applicants/proposers), consultants, contractors and suppliers; any subcontractors, sub-consultants, service providers or suppliers; any agents (whether declared or not); and any of their personnel, observe the highest standard of ethics during the procurement process, selection and contract execution of Bank-financed contracts, and refrain from Fraud and Corruption.

2.2 To this end, the Bank:

- a. Defines, for the purposes of this provision, the terms set forth below as follows:
 - i. "corrupt practice" is the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;
 - ii. "fraudulent practice" is any act or omission, including misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain financial or other benefit or to avoid an obligation;
 - iii. "collusive practice" is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;
 - iv. "coercive practice" is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;
 - v. "obstructive practice" is:
 - (a) deliberately destroying, falsifying, altering, or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a Bank investigation into allegations of a corrupt, fraudulent, coercive, or collusive practice; and/or threatening, harassing, or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or
 - (b) acts intended to materially impede the exercise of the Bank's inspection and audit rights provided for under paragraph 2.2 e. below.

- b. Rejects a proposal for award if the Bank determines that the firm or individual recommended for award, any of its personnel, or its agents, or its sub-consultants, subcontractors, service providers, suppliers and/ or their employees, has, directly or indirectly, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices in competing for the contract in question;
- c. In addition to the legal remedies set out in the relevant Legal Agreement, may take other appropriate actions, including declaring misprocurement, if the Bank determines at any time that representatives of the Borrower or of a recipient of any part of the proceeds of the loan engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices during the procurement process, selection and/or execution of the contract in question, without the Borrower having taken timely and appropriate action satisfactory to the Bank to address such practices when they occur, including by failing to inform the Bank in a timely manner at the time they knew of the practices;
- d. Pursuant to the Bank's Anti- Corruption Guidelines and in accordance with the Bank's prevailing sanctions policies and procedures, may sanction a firm or individual, either indefinitely or for a stated period of time, including by publicly declaring such firm or individual ineligible:
 - i. to be awarded or otherwise benefit from a Bank-financed contract, financially or in any other manner;¹⁰
 - ii. to be a nominated¹¹ subcontractor, consultant, manufacturer or supplier, or service provider of an otherwise eligible firm being awarded a Bank-financed contract; and
 - iii. to receive the proceeds of any loan made by the Bank or otherwise to participate further in the preparation or implementation of any Bank-financed project;
- e. Requires that a clause be included in bidding/request for proposals documents and in contracts financed by a Bank loan, requiring (i) bidders (applicants/proposers), consultants, contractors, and suppliers, and their subcontractors, sub-consultants, service providers, suppliers, agents personnel, permit the Bank to inspect¹² all accounts, records and other documents relating to the procurement process, selection and/or contract execution, and to have them audited by auditors appointed by the Bank.

¹⁰ For the avoidance of doubt, a sanctioned party's ineligibility to be awarded a contract shall include, without limitation, (i) applying for pre-qualification, expressing interest in a consultancy, and bidding, either directly or as a nominated subcontractor, nominated consultant, nominated manufacturer or supplier, or nominated service provider, in respect of such contract, and (ii) entering into an Addendum or amendment introducing a material modification to any existing contract.

¹¹ A nominated subcontractor, nominated consultant, nominated manufacturer or supplier, or nominated service provider (different names are used depending on the particular bidding document) is one which has been: (i) included by the bidder in its pre-qualification application or bid because it brings specific and critical experience and know-how that allow the bidder to meet the qualification requirements for the particular bid; or (ii) appointed by the Borrower.

¹² Inspections in this context usually are investigative (i.e., forensic) in nature. They involve fact-finding activities undertaken by the Bank or persons appointed by the Bank to address specific matters related to investigations/audits, such as evaluating the veracity of an allegation of possible Fraud and Corruption, through the appropriate mechanisms. Such activity includes but is not limited to: accessing and examining a firm's or individual's financial records and information, and making copies thereof as relevant; accessing and examining any other documents, data and information (whether in hard copy or electronic format) deemed relevant for the investigation/audit, and making copies thereof as relevant; interviewing staff and other relevant individuals; performing physical inspections and site visits; and obtaining third party verification of information.

SCHEDULE 5: Call-off Contract Forms

Invitation to Quote Secondary Procurement under a Framework Agreement (method: mini-competition)

From:	<i>[Insert Purchaser's legal name]</i>
Purchaser's Representative:	<i>[Insert name of Purchaser's Representative]</i>
Title/Position:	<i>[Insert Representatives title or position]</i>
Address:	<i>[Insert Purchaser's address]</i>
Telephone:	<i>[Insert Representatives telephone number]</i>
Email:	<i>[Insert Representatives email address]</i>

To:	<i>[Insert Supplier's legal name]</i>
Supplier's Representative:	<i>[Insert name of Supplier's Representative]</i>
Title/Position:	<i>[Insert Representatives title or position]</i>
Address:	<i>[Insert Supplier's address]</i>
Telephone:	<i>[Insert Representatives telephone number]</i>
Email:	<i>[Insert Representatives email address]</i>

Framework Agreement:	<i>[Insert short title of FA]</i>
FA Reference No.	<i>[Insert Purchaser's FA reference]</i>

ITQ Ref No.:	<i>[Insert reference]</i>
ITQ Date:	<i>[Insert date of ITQ]</i>
ITQ issued:	This ITQ has been transmitted by: "email"
Quotation Submission-	online through the www.mahatenders.gov.in portal

Attachments:

- Annex 1: Purchaser's Requirements
- Annex 2: Quote Form
- Annex 3: Call-off Contract

Dear *[insert name of Supplier's Representative]*,

1. Invitation to Quote (ITQ)

-
- a. With reference to the above-mentioned Framework Agreement, you are hereby invited to submit your most competitive quotation online through the www.mahatenders.gov.in portal as part of this Secondary Procurement process. The Quote is for the Goods [*add if applicable: “and the Related Services,”*] described in Annex 1: Purchaser’s Requirements, attached to this ITQ.

2. Price

- a. Your Quote must be submitted in the format contained in Annex 2: Quote.
- b. Your Quote cannot be greater than the base price for the Goods and Related Services, as established in the Framework Agreement, Schedule 2: Price Schedules., where the base price is adjusted by applying the price adjustment formula set out in the Framework Agreement, Section 1: Specific Provisions.”]
- c. The price that you quote shall be fixed and shall not be subject to any further adjustment.
- d. The Quote shall be in Indian Rupees.
- e. The Quote will be valid for a period of 60 days.

3. Clarifications

- a. If you would like to seek clarification(s) regarding this ITQ, please make your request before [insert date]. Your request for clarification(s) should be addressed to our Representative.

4. Submission of Quotes

- a. Quotes are to be submitted online through the www.mahatenders.gov.in.
- b. The deadline for submission of Quotes is 3 pm on [*insert day, month, year*].

5. Opening of Quotes

- a. Quotes will be opened online in the presence of Suppliers, or their representatives who choose to attend, at [*insert time (AM/PM)*] on [*insert day, month, year.*]¹³

6. Evaluation of Quotes

- a. Quotes will be evaluated item-wise and according to the criteria and methodology described in the Framework Agreement, Schedule 3: Secondary Procurement.

7. Contract

- a. Attached, at Annex 3 to this ITQ, is the draft Call-off Contract that will apply to this Secondary Procurement. If successful, you will be required to sign a Call-off Contract on the same, or similar terms. [*Instructions: complete a draft Call-off Contract for this procurement and attach it to this ITQ*]

¹³ Time and date for opening of quotes should be the same as the deadline for receipt of quotes, or promptly thereafter.

On behalf of the Purchaser:

Signature: _____

Name: _____

Title/position: _____

ANNEX 1: Purchaser's Requirements

[The Purchaser shall complete these tables, as appropriate, to enable the Supplier to prepare the Quote]

1. List of Goods and Delivery Schedule

Line Item N°	Description of Goods	Quantity required	Physical unit	Destination (Project Site)	Delivery Period (as per Incoterm)

2. List of Related Services and Completion Schedule

Service	Description of Service	Quantity required	Physical Unit	Place where Services shall be performed	Final Completion Period of Services
<i>[insert Service No]</i>	<i>[insert description of Related Services]</i>	<i>[insert quantity of items to be supplied]</i>	<i>[insert physical unit for the items]</i>	<i>[insert name of the Place]</i>	<i>[insert no. of days from placing the Call-off Contract]</i>

3. Technical Specifications, Drawings, Inspections and Tests

The Technical Specifications, Drawings, Inspections and Tests as are described in the Framework Agreement Schedule 1: Schedule of Requirements.

ANNEX 2: Quote Form

From:	<i>[Insert Supplier's legal name]</i>
Supplier's Representative:	<i>[Insert name of Supplier's Representative]</i>
Title/Position:	<i>[Insert Representatives title or position]</i>
Address:	<i>[Insert Supplier's address]</i>
Email:	<i>[Insert Supplier's email address]</i>

To:	<i>[Insert Purchaser's legal name]</i>
Purchaser's Representative:	<i>[Insert name of Purchaser's Representative]</i>
Title/Position:	<i>[Insert Representatives title or position]</i>
Address:	<i>[Insert Purchaser's address]</i>

Framework Agreement:	<i>[Insert short title of FA]</i>
FA Reference No.	<i>[Insert Purchaser's FA reference]</i>

ITQ Ref No.:	<i>[Insert Purchaser's reference]</i>
Date of Quote:	<i>[Insert date of Quote]</i>

Dear *[insert name of Purchaser's Representative]*

SUBMISSION OF QUOTE

1. Conformity and no reservations

In response to the above named ITQ we offer to supply the Goods, *[add if applicable: "and deliver the Related Services,"]* as per this Quote and in conformity with the ITQ, Delivery and Completion Schedules, Technical Specifications, Drawings, Inspections and Tests. We confirm that we have examined and have no reservations to the ITQ, including the Call-off Contract.

2. Eligibility and conflict of interest

We warrant that we continue to meet the eligibility requirements and have no conflict of interest. If awarded the Call-off Contract, the Goods *[add if applicable: "and Related Services,"]* that we supply shall be sourced from an eligible country.

3. Bid Price

The total price of our Bid, excluding any discounts offered in item 4 below is:

Option 1, in case of one lot: Total price is: [insert the total price of the Bid in Rs in words and figures].

Or

Option 2, in case of multiple lots: (a) Total price of each lot [insert the total price of each lot in Rs in words and figures]; and (b) Total price of all lots (sum of all lots) [insert the total price of all lots in Rs in words and figures].

4. Discounts

The discounts offered are: [*Specify in detail each discount offered.*]

The exact method of calculations to determine the net price after application of discounts is: [*Specify in detail the method that shall be used to apply the discounts.*]

5. Quote Validity Period

Our Quote shall be valid for the period specified in ITQ, and it shall remain binding upon us and may be accepted at any time before it expires.

6. Commissions, gratuities, fees

We have paid, or will pay the following commissions, gratuities, or fees with respect to this Quote or execution of a Call-off Contract [*If none has been paid or is to be paid, indicate “none.”*]

Name of Recipient	Address	Reason	Amount

7. Not Bound to Accept

We understand that you are not bound to accept the lowest evaluated cost Quote, the Most Advantageous Quote or any other Quote that you may receive.

8. Fraud and Corruption

We hereby certify that we have taken steps to ensure that no person acting for us, or on our behalf, engages in any type of Fraud and Corruption.

9. Confirmations

We hereby confirm that we continue to meet qualifications and other requirements mentioned in RFB document for establishing framework agreements.

On behalf of the Supplier:

Signature: _____

Name: _____

Title/position:

Telephone:

Email:

Quote for Goods: Price Schedule 1
List of Goods and Delivery Schedule

1	2	3	4	5	6	7	8	9
Line Item N°	Description of Goods	Delivery Date as defined by Incoterms	Quantity and physical unit	Unit price EXW	Total EXW price per line item (Col. 4x5)	Price per line item for inland transportation and other services required to convey the Goods to their final destination in India	GST and other taxes payable per line item if Contract is awarded (in accordance with ITB 34.5(a))	Total Price per line item (Col. 6+7)
<i>[insert number of the item]</i>	<i>[insert name of Good]</i>	<i>[insert quoted Delivery Date]</i>	<i>[insert number of units to be supplied and name of the physical unit]</i>	<i>[insert EXW unit price]</i>	<i>[insert total EXW price per line item]</i>	<i>[insert the corresponding price per line item]</i>	<i>[insert GST and other taxes payable per line item if Contract is awarded]</i>	<i>[insert total price per item]</i>
							Quote Price Rs	

Quote for Related Services: Price Schedule 2

1	2	4	5	6	7
Service N°	Description of Services (excludes inland transportation and other services required to convey the goods to their final destination in India)	Delivery Date at place of Final destination	Quantity and physical unit	Unit price	Total Price per Service (Col. 5*6 or estimate)
<i>[insert number of the Service]</i>	<i>[insert name of Services]</i>	<i>[insert delivery date at place of final destination per Service]</i>	<i>[insert number of units to be supplied and name of the physical unit]</i>	<i>[insert unit price per item]</i>	<i>[insert total price per item]</i>
Quote Price Rs.					

Total Quote

The total cost for the supply and delivery of the Goods, and related Services is as follows:

Price Schedule Quotes	Amount
Goods: Price Schedule 1	
Related Services: Price Schedule 2	
Total Quote Rs.	

ANNEX 3: Call-off Contract

Call-off Contract for the supply of Goods

Framework Agreement:	<i>[Insert name of FA]</i>
FA Reference No.	<i>[Insert Purchaser's FA reference]</i>
Goods	<i>[short title for type of Goods]</i>
Order number:	<i>[Insert reference]</i>
Order date:	<i>[Insert date of order]</i>

Purchaser:
<i>[name of Purchaser]</i> <i>[address]</i>

Supplier:
<i>[name of Supplier]</i> <i>[address]</i>

GOODS (GCC 1.1 i)				
Code	Product name	Quantity	Unit price	Total
<i>[insert code]</i>	<i>[description of Goods]</i>	<i>[number]</i>	<i>[price]</i>	<i>[amount]</i>
Special instructions/comments:		Subtotal		
		Tax		
		Shipping/handling		
		Total		

RELATED SERVICES (GCC 1.1 I)				
Code	Name/description of service	Quantity	Price	Total
<i>[insert code]</i>	<i>[Describe the Related Services covered under GCC Clause 25.2 and/or Schedule 1 of the Framework Agreement. The price quoted in Schedule 2 of the Framework</i>	<i>[number]</i>	<i>[price]</i>	<i>[amount]</i>

	<i>Agreement or as agreed with the selected Supplier shall be included in the Contract Price.]</i>			
Special instructions/comments:	Subtotal			
	Tax			
	Shipping/handling			
	Total			

Terms and conditions of supply

This Call-off Contract has been awarded under the Framework Agreement, referenced above. It is between the named Purchaser and the Supplier. The Framework Agreement is incorporated by reference into this Call-off Contract, as applicable.

General Conditions of Contract (GCC)

The Call-off Contract General Conditions of Contract (GCC), set out in the Framework Agreement, Schedule 4, are incorporated by reference into this Call-off Contract.

Special Conditions of Contract (SCC)

The following Special Conditions of Contract (SCC) shall supplement and/or amend the Call-off Contract General Conditions of Contract (GCC). Whenever there is a conflict between the GCC and SCC, the provisions of the SCC shall prevail.

Term	This Call-off Contract starts [<i>enter start date, or method of calculating the start date</i>] and ends [<i>enter end date, or method of calculating the end date</i>].
Required Date of Delivery	[<i>insert date</i>]
Delivery instructions	[<i>insert instructions relating to the delivery of the Goods, and/or Related Services</i>]
Address for invoice(s)	[<i>set out the address for invoicing, include the name and title of the officer authorized to receive the invoice, and describe the details that must be included in the invoice</i>]
Goods ordered by GCC 1.1(k)	Shr-----

	Chairman / President, CBO / Farmer Producer Company <i>[Title/position]</i> <i>[Department/work unit]</i> <i>[name of Purchaser]</i> Email: Phone: Mobile:
Delivery address (Project Site/Final Destination) GCC 4.2 (a)	<i>[insert address or addresses where the Goods are to be delivered and contact details for an officer at this address who can assist with any delivery queries]</i>
Incoterms applicable GCC 4.2 (b)	The edition of Incoterms that shall apply is 2010 <i>[modify, if required]</i>
Addresses for notices GCC 8.1	All notices served under this Call-off Contract are to be sent to the following addresses: <u>Address for notices to the Purchaser:</u> <i>[Shri-----]</i> [Chairman / President, CBO / Farmer Producer Company] <i>[department/work unit]</i> <i>[address]</i> <i>[email address]</i> <u>Address for notices to the Supplier:</u> <i>insert the name of officer authorized to receive notices]</i> <i>[title/position]</i> <i>[department/work unit]</i> <i>[address]</i> <i>[email address]</i>
Arbitration GCC 10.2	The rules of procedure for arbitration proceedings, pursuant to GCC clause 10.2, shall be as follows: (a) In case of Dispute or difference arising between the Purchaser and a Supplier relating to any matter arising out of or connected with this Framework Agreement (which term for the purpose of this clause, also includes any Call-off contract(s) awarded under the Framework Agreement), such dispute or difference shall be

	<p>settled in accordance with the Arbitration and Conciliation Act, 1996 (as amended), at [<i>insert venue</i>], India</p> <p>(b) Except as otherwise agreed to by the Parties, Arbitrators should gi</p>
<p>Shipping and other documents to be provided GCC 13.1</p>	<p>Details of Shipping and other Documents to be furnished by the Supplier are [<i>Note: insert the required documents, such as a negotiable bill of lading, a non-negotiable sea way bill, an airway bill, a railway consignment note, a road consignment note, insurance certificate, Manufacturer's or Supplier's warranty certificate, inspection certificate issued by nominated inspection agency, Supplier's factory shipping details etc. Modify the sample entries given below</i>].</p> <ul style="list-style-type: none"> (i) Three Copies of the Supplier invoice showing contract number, goods description, quantity, unit price, total amount; (ii) Delivery note, Railway receipt, or Road consignment note or airway bill or equivalent transport document or acknowledgement of receipt of goods from the Consignee; (iii) Three. Copies of packing list identifying contents of each package; (iv) Insurance certificate; (v) Manufacturer's/Supplier's warranty certificate; and (vi) Inspection certificate issued by the nominated inspection agency, and the Supplier's factory inspection report; <p>The above documents shall be received by the Purchaser before arrival of the Goods and, if not received, the Supplier will be responsible for any consequent expenses.</p>
<p>Total Contract Price GCC 15.1</p>	<p>The prices charged for the Goods supplied and any related Services performed shall not be adjustable.</p>
<p>Terms of payment GCC 16.1</p>	<p><i>Sample provision</i></p> <p>The method and conditions of payment to be made to the Supplier under this Call-off Contract shall be as follows:</p> <p>Payment shall be made in Indian Rupees in the following manner:</p>

	<p>(i) On Delivery: Eighty (50) percent of the Contract Price shall be paid on receipt of the Goods and upon submission of the documents specified in GCC Clause 13.</p> <p>(ii) On Acceptance/ installation: 40% of the Contract Price shall be paid within thirty (30) days after receipt of tax invoice along with acceptance certificate issued by the purchaser's appointed authority.</p> <p>(iii) Remaining 10% of the Contract Price will be paid after 3 months from the date of installation & commissioning and upon satisfactory performance of the goods.</p> <p>*Note: Maximum Advance payment @.....% of the supply order value will be paid against submission of unconditional bank guarantee for the same amount by the successful bidder and should be valid up to the first installment of payment. The amount of advance shall be settled against the first installment of payment.</p> <p>*Delete if not required</p>
<p>Interest due for late payment GCC 16.5</p>	<p>The payment-delay period after which the Purchaser shall pay interest to the supplier shall be 30 days.</p> <p>The interest rate that shall be applied is 1 % PA.</p>
<p>Packing, marking and documentation GCC 23.2</p>	<p>The packing, marking and documentation within and outside the packages shall be: <i>[insert in detail the type of packing required, the markings in the packing and all documentation required. Modify the sample clause given below, as required]</i></p> <p>The Supplier will be required to make separate packages for each Consignee. Each package will be marked on three sides with proper paint/indelible ink with the following:</p> <p>(i) Project; (ii) Contract No.; (iii) Supplier's Name; (iv) Packing List Reference Number.</p>
<p>Insurance cover GCC 24.1</p>	<p>The insurance shall be paid in an amount equal to 110 percent of the EXW value of the Goods from "Warehouse to warehouse (final destination)" on "All Risks" basis including War Risks and Strikes belong with supplier.</p>
<p>Transportation GCC 25.1</p>	<p>The Supplier is required under the Contract to transport the Goods duly insured to the specified final destination, and all related costs shall be included in the Contract Price.</p>
<p>Incidental Services GCC 25.2</p>	<p>Incidental services to be provided are:</p> <p><i>Installation, commissioning testing, Training and other services mentioned in the RFB.</i></p>

Inspections and tests GCC 26.1	The inspections and tests shall be: <i>As per SOP of finalized by the any institute appointed by the purchaser</i>
Site of inspections and tests GCC 26.2	The Inspections and tests shall be conducted at: <i>[insert name(s) of location(s)]</i>
Liquidated damages GCC 27.1	The liquidated damage shall be 0.5% <i>[modify if necessary]</i> per week. The maximum amount of liquidated damages shall be 10% of the call-off contract price.
Warranty GCC 28.3	The period of validity of the Warranty shall be: <i>12 Months</i> from the date of commissioning. For purposes of the Warranty, the place(s) of final destination(s) shall be: <i>location of project</i> The Supplier shall, in addition, comply with the performance and/or consumption guarantees specified under the Contract. If, for reasons attributable to the Supplier, these guarantees are not attained in whole or in part, the Supplier shall, at its discretion, either: (a) make such changes, modifications, and/or additions to the Goods or any part thereof as may be necessary in order to attain the contractual guarantees specified in the Contract at its own cost and expense and to carry out further performance tests in accordance with GCC 26.7, or (b) pay liquidated damages to the Purchaser with respect to the failure to meet the contractual guarantees. The rate of these liquidated damages shall be 0.5 % per week.
Repair/replacement GCC 28.5 GCC 28.6	The period for repair or replacement shall be <i>7 days</i> .
Additional instructions	<i>[insert any additional details or instructions as necessary, otherwise delete this row]</i>

SCHEDULE 6: List of Participating Users

The details & list of approved CBOs (Participating Users) and their respective subprojects under the SMART Project are available on the project website www.smart-mh.org. You are requested to visit the website for detailed information about the purchasers.

Annexure- Indicative Cost Norms Per Unit

Sr No	Description of Item	Tentative Quantity	Indicative Cost Norm Per Unit (Rs. Lakhs)
1	Cleaning Grading & Sorting Unit 1 TPH (Semi-automatic)	92	3.30
2	Cleaning Grading & Sorting Unit 2-3 TPH (Semi-automatic)	16	4.35
3	Cleaning Grading & Sorting Unit 1-2 TPH (Fully automatic)	92	18.70
4	Cleaning Grading & Sorting Unit 3 TPH (Fully automatic)	11	26.30
5	Cleaning Grading & Sorting Unit 4-5 TPH (Fully automatic)	65	74.00

Notification to Bidders:

1. The above quantities and cost norms are indicative; bidders are free to quote as per their assessment.
2. Under this Framework Agreement, the Purchasers (Community Based Organizations) shall retain the right to undertake a separate procurement process and procure machinery from any entity, supplier, or equipment manufacturer outside the scope of this Framework Agreement.