

**DIRECTORATE OF TECHNICAL EDUCATION & INDUSTRIAL TRAINING,
PUNJAB**

TAKNIKI SIKHIA BHAWAN, PLOT NO 1A, SECTOR 36-A, CHANDIGARH- 160036.

Tel. No- (0172) 2614031, , 2614446. Fax No- (0172) 2614622

**BIDDING DOCUMENTS
UNDER
NATIONAL COMPETITIVE BIDDING
FOR
PROCUREMENT OF MACHINERY & EQUIPMENT**

UNDER THE WORLD BANK ASSISTED

**“Reforms and Improvement in Vocational Training Services
Rendered by the Central & State Governments”**

**Vocational Training Improvement Project
Credit No. - IDA 4319-IN**

BID REFERENCE NO: IT/VTIP/WB/NCB/Food Processing/2011-12/9

**DIRECTORATE OF TECHNICAL EDUCATION & INDUSTRIAL TRAINING,
PUNJAB (I.T. Wing)**

TAKNIKI SIKHIA BHAWAN, PLOT NO 1A, SECTOR 36-A, CHANDIGARH- 160036.

Tel. No- (0172) 2614031, , 2614446. Fax No- (0172) 2614622

Websit: www.dtepunjab.gov.in, e-mail : ditpb_coe_pu@yahoo.com

**NATIONAL COMPETITIVE BIDDING FOR
THE SUPPLY OF MACHINERY & EQUIPMENT**

BID REFERENCE : **IT/VTIP/WB/NCB/Food Processing/2011-12/9**

DATE OF COMMENCEMENT OF : 23-11-2011(**X**)
SALE OF BIDDING DOCUMENT

LAST DATE FOR SALE OF : 23-12-2011(**X +30 Days**)
BIDDING DOCUMENT

* LAST DATE AND TIME FOR : 24-12-2011(**X +(30+1) Days, 2.00 P.M.**)
RECEIPT OF BIDS

TIME AND DATE OF OPENING : 24-12-2011(**X +(30+1) Days, 2.30 P.M.**)
OF BIDS

PLACE OF RECEIPT OF BIDS : Room No. 304, 3rd Floor.

PLACE OF OPENING OF BIDS : Directorate of Technical
Education & Industrial Training,
Punjab, Takniki Sikhia Bhawan,
Room No 401, 4th Floor, Plot No 1A,
Sector-36 A, Chandigarh-160036
Ph.No. (0172) 2614031,
Fax. No. (0172) 2614622
E-mail : ditpb_coe_pu@yahoo.com

ADDRESS FOR COMMUNICATION : State Project Director
VTIP) cum Commissioner of
Technical Education & Industrial
Training, Punjab, Takniki Sikhia
Bhawan, (I.T.Wing), Room No 304, 3rd
Floor, Plot No 1-A, Sector-36 A,
Chandigarh-160036
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* *Should be the same as for the deadline for receipt of bids or promptly thereafter*

SECTION I: INVITATION FOR BIDS (IFB)

**NATIONAL COMPETITIVE BIDDING FOR
THE SUPPLY OF MACHINERY & EQUIPMENTS**

SECTION I. INVITATION FOR BIDS (IFB)

Date : 15-11-2011

Credit No. : IDA 4319-IN

IFB No. **IT/VTIP/WB/NCB/Food Processing/2011-12/9**

- The Government of India has received a Credit (Credit 4319-IN) from the International Development Association in various currencies towards the cost of Vocational Training Improvement Project and it is intended that part of the proceeds of this credit will be applied to eligible payments under the contracts for which this Invitation for Bids is issued.
- The State Project (VTIP) Director, Directorate of Technical Education & Industrial Training, Punjab, Takniki SiKhia Bhawan, Plot No 1-A, Sector-36 A, Chandigarh-160036 now invites sealed bids from eligible bidders for supply of Machinery & Equipment listed below:

Schedule No	Description	Quantity	Bid Document Price	Bid Security
1.	Autoclave	4 Nos.	*	1500/-
2.	Automatic Form Fill Seal Machine	7 Nos.	*	23000/-
3.	Baby Fruit Pulper	2 Nos.	*	1000/-
4.	Blancher Cum Sterilizer	1 No.	*	1000/-
5.	Boiler Evaporation	2 Nos.	*	4000/-
6.	Bottle cap tightening machine	12 Nos.	*	2500/-
7.	Bottle Filling Machine	5 Nos	*	3500/-
8.	Bottle Washer	2 Nos	*	1000/-
9.	Bread Cutting Machine	2 Nos	*	1000/-
10.	Butter Churner	2 Nos	*	1000/-
11.	Cabinet Dryer (Electrical)	2 Nos	*	1000/-
12.	Canbody reformer	3 Nos.	*	3000/-
13.	Can Seamer	3 Nos	*	3000/-
14.	Cheese Vat	2 Nos.	*	5000/-
15.	Cream Separator	2 Nos.	*	1000/-
16.	Automatic Cup Sealing Machine	1 No.	*	1000/-

17	Hand Operated Cup Sealing Machines	2 Nos.	*	1000/-
18	Deep Fridge	2 Nos	*	1000/-
19	Destoner	1 No.	*	1000/-
20	Electric Oven	5 Nos.	*	2000/-
21	Exhaust Box	3 Nos.	*	1500/-
22	Fat Measuring Kit	4 Nos	*	2000/-
23	Fermentor	5 Nos.	*	5000/-
24	Fruit Mill Junior	2 Nos.	*	1000/-
25	Grain Cleaner	1 No	*	1000/-
26	Grinding Machine (Hammer Mill)	1 No.	*	1000/-
27	Groundnut decorticator	1 No.	*	1000/-
28	Hand Operated Moisture Meter	20 Nos.	*	7000/-
29	Hand Operated Plastic Packaging Machine	18 Nos.	*	2500/-
30	Hand Operated Pulping Machine	2 Nos.	*	1000/-
31	Hand/ Table Model Refractometer	2 Nos.	*	1000/-
32	Hot Plate	5 Nos.	*	1000/-
33	Ice Cream Plant	2 Nos.	*	6000/-
34	Juice Extracting Machine	11 Nos.	*	8000/-
35	Laborator Spray Drier Aceptic GMP Unit	7 Nos.	*	4000/-
36	Liquid Filling Machine	12 Nos.	*	7000/-
37	Mawa Machine	2 Nos.	*	1000/-
38	Meat Mincer	1 No.	*	1000/-
39	Micro Pulverizer	2 Nos.	*	3500/-
40	Milk Chiller	2 Nos.	*	2000/-
41	Milk Testing Kit	4 Nos.	*	3500/-
42	Mini Dairy Plant with Complete mini Processing unit	2 Nos.	*	40000/-
43	Mini Dal Mill Power Operated	1 No.	*	1500/-

44	Mini Oil Expeller Power Operated	1 No.	*	1000/-
45	Mini Rice Mill	1 No.	*	1500/-
46	Mixer Grinder	4 Nos.	*	1500/-
47	Pasteurization Unit	2 Nos.	*	2000/-
48	Packle Mixer	5 Nos.	*	3000/-
49	Plantery Mixer	1 No	*	1000/-
50	Platform Scale Balance	3 Nos.	*	1000/-
51	Plumping Machine	4 Nos.	*	3000/-
52	Seed Germinator	3 Nos.	*	5000/-
53	Dough Sheeting Machine	1 No.	*	1000/-
54	Sieve Shaker and Sieves Motorized	4 Nos	*	1000/-
55	Solar Drier (Cabinet Type)	3Nos.	*	1000/-
56	Stainless Steal Table	10 Nos.	*	2000/-
57	Steam Jacketed Kettle	5 Nos.	*	4500/-
58	Sugar Coating Pan	4 Nos.	*	2000/-
59	Syrup Tanks	4 Nos.	*	2000/-
60	Vaccum Pan	3 Nos.	*	1000/-
61	Vegetable Slicing Machine	4 Nos.	*	2000/-
62	Water Purifier	3 Nos.	*	1000/-
63	Wheat Flour Mill	2 Nos.	*	2000/-
64	Oven 5 KW	2 Nos.	*	2000/-
65	Flash Evaporator	2 Nos.	*	1500/-
66	Refrigerator	5 Nos.	*	1500/-

A) Bids should be submitted separately for each items.

B) Bid Security is to be submitted separately for each items.

C) * Bid Document Price Rs 1000/- for each items should be deposited along with bid in the form of Demand Draft payable in Favour of Finance Officer, Finance Unit (SPIU), Deptt. Of Industrial Training, Punjab, Chandigarh.

3. Interested eligible Bidders may obtain further information from and inspect the bidding documents at the office of the **Directorate of Technical Education & Industrial Training, Punjab, Takniki Sikhia Bhawan, Procurement Unit, Room No 304, Plot No 1-A, Sector-36 A, Chandigarh-160036 India.**
4. A complete set of bidding documents may be purchased by any interested eligible bidder on the submission of a written application to the above office and upon payment of a non-refundable fee as indicated below in the form of a Demand Draft/Cashier's cheque/Certified cheque in favour of **Finance Officer, Finance Unit (SPIU), Deptt. Of Industrial Training, Punjab, Chandigarh.** payable at **Chandigarh** or can be downloaded from the Website www.dtepunjab.gov.in under Centre of Excellence Link www.dtepunjab.gov.in/web/coe_web/CoE_ITI.htm. Downloaded & Duly completed documents should be submitted alongwith the price of Bidding Documents in the form of Demand Draft of Nationalised /Scheduled Bank in favour of **Finance Officer, Finance Unit (SPIU), Deptt. Of Industrial Training, Punjab, Chandigarh.** payable at **Chandigarh**
Bidders who download the document from Website and wish to participate in the bid, will be required to submit the cost of the bid document at the time of bid submission otherwise the bid will be made non responsive/Cancelled.
5. The provisions in the Instructions to Bidders and in the General Conditions of contract are based on the provisions of the World Bank Standard Bidding Document - Procurement of Goods.
6. The bidding document may be obtained from the office of **Directorate of Technical Education & Industrial Training, Punjab, Procurement Unit (SPIU) Room No.304, 3rd Floor, Plot No 1-A, Sector-36 A, Chandigarh-160036** during office hours namely, from **9.00 AM to 5.00 PM**, on all working days either in person or by post.
 - (a) Price of bidding document :Rs. 1000/- (For each Category)
(non-refundable)
 - (b) Date of commencement of sale of bidding document :23-11-2011(x)
 - (c) Last date for sale of bidding document : 23-12-2011 (X +30 Days)
 - (d) Last date and time for receipt of bids :24-12-2011(X+(30+1)Days, 2.00P.M.)
 - (e) Time and date of opening of bids : 24-12-2011 (X +(30+1) Days, 2.30 P.M.)
 - (f) Place of opening of bids :**Directorate of Technical Education & Industrial Training, Punjab, Takniki Sikhia Bhawan, Room No 401, 4th Floor, Plot No 1-A, Sector-36 A, Chandigarh-160036**
Ph.No.(0172) 2614031, ,
Fax. No.(0172) 2614622
E-mail : ditpb_coe_pu@yahoo.com

(g) Address for
communication

: State Project Director
(VTIP) cum Commissioner of
Technical Education & Industrial
Training, Punjab, Takniki Sikhia
Bhawan, (I.T.Wing), Room No 304, 3rd
Floor, Plot No 1-A, Sector-36 A,
Chandigarh-160036
Ph.No. (0172) 2614031,
Fax. No. (0172) 2614622
E-mail : ditpb_coe_pu@yahoo.com

7. All bids must be accompanied by a bid security as specified in the bid document and must be delivered to the above office at the date and time indicated above.
8. Bids will be opened in the presence of Bidders' representatives who choose to attend on the specified date and time.
9. In the event of the date specified for bid receipt and opening being declared as a closed holiday for purchaser's office, the due date for submission of bids and opening of bids will be the following working day at the appointed times.

State Project Director (VTIP)
Cum Commissioner, Technical Education &
Industrial Training, Punjab,
Chandigarh.

SECTION II: INSTRUCTIONS TO BIDDER

SECTION II: INSTRUCTIONS TO BIDDERS

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A. Introduction

DIRECTORATE OF TECHNICAL EDUCATION & INDUSTRIAL TRAINING, PUNJAB

TAKNIKI SIKHIA BHAWAN, PLOT NO 1A, SECTOR 36-A, CHANDIGARH- 160036.

1. Source of Funds

- 1.1 The Government of India has received a credit from the International Development Association (Here-in-after called as Bank) in various currencies equivalent to USD 280 million towards the cost of Vocational Training Improvement Project (CR 4319 IN) and intends to apply part of the proceeds of this credit to eligible payments under the contracts for which this invitation for Bid is issued..
- 1.2 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 Credit Agreement, and will be subject in all respects to the terms and conditions of that agreement. The Credit Agreement prohibits a withdrawal from the Credit account for the purpose of any payment to persons or entities, or for any import of goods, if such payment or import, to the knowledge of the Bank, is prohibited by a 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 Credit Agreement or have any claim to the Credit/Loan proceeds.

2. Eligible Bidders

- 2.1 This Invitation for Bids is open to all suppliers from eligible source countries as defined in *Guidelines: Procurement under IDA Credits*, May 2004, revised October 2006 hereinafter referred as the *IDA Guidelines for Procurement*, except as provided hereinafter.
- 2.2 Bidders should not be associated, or have been associated in the past, directly or indirectly, with a firm or any of its affiliates which have been engaged by the Purchaser to provide consulting services for the preparation of the design, specifications, and other documents to be used for the procurement of the goods to be purchased under this Invitation of Bids.
- 2.3 Government-owned enterprises in the Purchaser's country may participate only if they are legally and financially autonomous, if they operate under commercial law, and if they are not a dependent agency of the Purchaser.
- 2.4 Bidders shall not be under a declaration of ineligibility for corrupt and fraudulent practices issued by the Bank in accordance with ITB Clause 36.1.

3. Eligible Goods and Services

- 3.1 All goods and ancillary services to be supplied under the Contract shall have their origin in eligible source countries, defined in the *IDA Guidelines for Procurement* and all expenditures made under the Contract will be limited to such goods and services.
- 3.2 For purposes of this clause, "origin" means the place where the goods are mined, grown, or produced or from which the ancillary services are supplied. Goods are produced when, through manufacturing, processing or substantial and major assembling of components, a commercially recognized product results that is substantially different in basic characteristics or in purpose or utility from its components.
- 3.3 The origin of goods and services is distinct from the nationality of the Bidder.

4. Cost of Bidding

- 4.1 The Bidder shall bear all costs associated with the preparation and submission of its bid, and "the Purchaser", will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.

B. The Bidding Documents

5. Content of Bidding Documents

- 5.1 The goods required, bidding procedures and contract terms are prescribed in the bidding documents. In addition to the Invitation for Bids, the bidding documents include:
- (a) Instruction to Bidders (ITB) ;
 - (b) General Conditions of Contract (GCC) ;
 - (c) Special Conditions of Contract (SCC) ;
 - (d) Schedule of Requirements;
 - (e) Technical Specifications;
 - (f) Bid Form and Price Schedules;
 - (g) Bid Security Form;
 - (h) Contract Form;
 - (i) Performance Security Form;
 - (j) Performance Statement Form;
 - (k) Manufacturer's Authorization Form;
 - (l) Bank Guarantee for Advance Payment Form; and
 - (m) Equipment and Quality Control Form.
- 5.2 The Bidder is expected to examine all instructions, forms, terms, and specifications in the bidding documents. Failure to furnish all information required by the bidding documents or submission of a bid not substantially responsive to the bidding documents in every respect will be at the Bidder's risk and may result in rejection of its bid.

6. Clarification of Bidding Documents

- 6.1 A prospective Bidder requiring any clarification of the bidding documents may notify the Purchaser in writing or by telex or cable or fax at the Purchaser's mailing address indicated in the Invitation for Bids. The Purchaser will respond in writing to any request for clarification of the bidding documents which it receives no later than 15 days prior to the deadline for submission of bids prescribed by the Purchaser. Written copies of the Purchaser's response (including an explanation of the query but without identifying the source of inquiry) will be sent to all prospective bidders which have received the bidding documents.

7. Amendment of Bidding Documents

- 7.1 At any time prior to the deadline for submission of bids, the Purchaser may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the bidding documents by amendment.
- 7.2 All prospective bidders who have received the bidding documents will be notified of the amendment in writing or by cable or by fax, and will be binding on them.
- 7.3 In order to allow prospective bidders reasonable time in which to take the amendment into account in preparing their bids, the Purchaser, at its discretion, may extend the deadline for the submission of bids.

C. Preparation of Bids

8. Language of Bid

- 8.1 The bid prepared by the Bidder, as well as all correspondence and documents relating to the bid exchanged by the Bidder and the Purchaser, shall be written in English language. Supporting documents and printed literature furnished by the Bidder may be in another language provided they are accompanied by an accurate translation of the relevant passages in the English language in which case, for purposes of interpretation of the Bid, the translation shall govern.

9. Documents Constituting the Bid

- 9.1 The bid prepared by the Bidder shall comprise the following components:
- (a) a Bid Form and a Price Schedule completed in accordance with ITB Clauses 10, 11 and 12;

- (b) documentary evidence established in accordance with ITB Clause 13 that the Bidder is eligible to bid and is qualified to perform the contract if its bid is accepted;
- (c) documentary evidence established in accordance with ITB Clause 14 that the goods and ancillary services to be supplied by the Bidder are eligible goods and services and conform to the bidding documents; and
- (d) bid security furnished in accordance with ITB Clause 15.

10. Bid Form

- 10.1 The Bidder shall complete the Bid Form and the appropriate Price Schedule furnished in the bidding documents, indicating the goods to be supplied, a brief description of the goods, their country of origin, quantity and prices.

11. Bid Prices

- 11.1 The Bidder shall indicate on the Price Schedule the unit prices and total bid prices of the goods it proposes to supply under the Contract. To this end, the Bidders are allowed the option to submit the bids for any one or more schedules specified in the 'Schedule of Requirements' and to offer discounts for combined schedules. However, Bidders shall quote for the complete requirement of goods and services specified under each schedule on a single responsibility basis, failing which such bids will not be taken into account for evaluation and will not be considered for award.

- 11.2 Prices indicated on the Price Schedule shall be entered separately in the following manner:

- (i) the price of the goods, quoted (ex-works, ex-factory, ex-showroom, ex-warehouse, or off-the-shelf, as applicable), including all duties and sales and other taxes already paid or payable:
 - a. on components and raw material used in the manufacture or assembly of goods quoted ex-works or ex-factory; or
 - b. on the previously imported goods of foreign origin quoted ex-showroom, ex-warehouse or off-the-shelf.
- (ii) any Indian duties, sales and other taxes which will be payable on the goods if this Contract is awarded;
- (iii) the price for inland transportation, insurance and other local costs incidental to delivery of the goods to their final destination; and
- (iv) the price of other incidental services listed in Clause 8 of the Special Conditions of Contract.

- 11.3 The Bidder's separation of the price components in accordance with ITB Clause 11.2 above will be solely for the purpose of facilitating the comparison of bids by the Purchaser and will not in any way limit the Purchaser's right to contract on any of the terms offered.

- 11.4 Fixed Price. Prices quoted by the Bidder shall be fixed during the Bidder's performance of the Contract and not subject to variation on any account. A bid submitted with an adjustable price quotation will be treated as non-responsive and rejected, pursuant to ITB Clause 24.

12. Bid Currencies

- 12.1 Prices shall be quoted in Indian Rupees:

13. Documents Establishing Bidder's Eligibility and Qualifications

- 13.1 Pursuant to ITB Clause 9, the Bidder shall furnish, as part of its bid, documents establishing the Bidder's eligibility to bid and its qualifications to perform the Contract if its bid is accepted.

- 13.2 The documentary evidence of the Bidder's eligibility to bid shall establish to the Purchaser's satisfaction that the Bidder, at the time of submission of its bid, is from an eligible country as defined under ITB Clause 2.

- 13.3 The documentary evidence of the Bidder's qualifications to perform the Contract if its bid is accepted, shall establish to the Purchaser's satisfaction:

- (a) that, in the case of a Bidder offering to supply goods under the contract which the Bidder did not manufacture or otherwise produce, the Bidder has been duly authorized (as per authorization form in Section XII) by the goods' Manufacturer or producer to supply the goods in India.

[Note: Supplies for any particular item in each schedule of the bid should be from one manufacturer only. Bids from agents offering supplies from different manufacturer's for the same item of the schedule in the bid will be treated as non-responsive.]

- (b) that the Bidder has the financial, technical, and production capability necessary to perform the Contract and meets the criteria outlined in the Qualification requirements specified in Section VI-A. To this end, all bids submitted shall include the following information:
- (i) The legal status, place of registration and principal place of business of the company or firm or partnership, etc.;
 - (ii) Details of experience and past performance of the bidder on equipment offered and on those of similar nature within the past three/five years and details of current contracts in hand and other commitments (suggested proforma given in Section XI);

14. Documents Establishing Goods' Eligibility and Conformity to Bidding Documents

- 14.1 Pursuant to ITB Clause 9, the Bidder shall furnish, as part of its bid, documents establishing the eligibility and conformity to the bidding documents of all goods and services which the Bidder proposes to supply under the contract.
- 14.2 The documentary evidence of the goods and services eligibility shall consist of a statement in the Price Schedule on the country of origin of the goods and services offered which shall be confirmed by a certificate of origin at the time of shipment.
- 14.3 The documentary evidence of conformity of the goods and services to the bidding documents may be in the form of literature, drawings and data, and shall consist of :
- (a) a detailed description of the essential technical and performance characteristics of the goods ;
 - (b) 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 for a period of two years, following commencement of the use of the goods by the Purchaser; and
 - (c) an item-by-item commentary on the Purchaser's Technical Specifications demonstrating substantial responsiveness of the goods and services to those specifications or a statement of deviations and exceptions to the provisions of the Technical Specifications.
- 14.4 For purposes of the commentary to be furnished pursuant to ITB Clause 14.3(c) above, the Bidder shall note that standards for workmanship, material and equipment, and references to brand names or catalogue numbers designated by the Purchaser in its Technical Specifications are intended to be descriptive only and not restrictive. The Bidder may substitute alternative standards, brand names and/or catalogue numbers in its bid, provided that it demonstrates to the Purchaser's satisfaction that the substitutions ensure substantial equivalence to those designated in the Technical Specifications.

15. Bid Security

- 15.1 Pursuant to ITB Clause 9, the Bidder shall furnish, as part of its bid, a bid security in the amount as specified in Section-V - Schedule of Requirements.
- 15.2 The bid security is required to protect the Purchaser against the risk of Bidder's conduct which would warrant the security's forfeiture, pursuant to ITB Clause 15.7.
- 15.3 The bid security shall be denominated in Indian Rupees and shall:

- (a) at the bidder's option, be in the form of either a certified check, letter of credit, a demand draft, or a bank guarantee from a nationalized/Scheduled Bank located in India or by a reputable banking institution selected by the bidder and located abroad in any eligible country;
 - (b) be substantially in accordance with one of the form of bid security included in Section VIII or other form approved by the Purchaser prior to bid submission;
 - (c) be payable promptly upon written demand by the Purchaser in case any of the conditions listed in ITB Clause 15.7 are invoked;
 - (d) be submitted in its original form; copies will not be accepted; and
 - (e) remain valid for a period of 45 days beyond the original validity period of bids, or beyond any period of extension subsequently requested under ITB Clause 16.2.
- 15.4 Any bid not secured in accordance with ITB Clauses 15.1 and 15.3 above will be rejected by the Purchaser as non-responsive, pursuant to ITB Clause 24.
- 15.5 Unsuccessful bidder's bid securities will be discharged/returned as promptly as possible but not later than 30 days after the expiration of the period of bid validity prescribed by the Purchaser, pursuant to ITB Clause 16.
- 15.6 The successful Bidder's bid security will be discharged upon the Bidder signing the Contract, pursuant to ITB Clause 34, and furnishing the performance security, pursuant to ITB Clause 35.
- 15.7 The bid security may be forfeited:
- (a) if a Bidder (i) withdraws its bid during the period of bid validity specified by the Bidder on the Bid Form; or (ii) does not accept the correction of errors pursuant to ITB Clause 24.2; or
 - (b) in case of a successful Bidder, if the Bidder fails:
 - (i) to sign the Contract in accordance with ITB Clause 34; or
 - (ii) to furnish performance security in accordance with ITB Clause 35.

16. Period of Validity of Bids

- 16.1 Bids shall remain valid for **90** days after the deadline for submission of bids prescribed by the Purchaser, pursuant to ITB Clause 19. A bid valid for a shorter period shall be rejected by the Purchaser as non-responsive.
- 16.2 In exceptional circumstances, the Purchaser may solicit the Bidder's consent to an extension of the period of validity. The request and the responses thereto shall be made in writing (or by cable or telex or fax). The bid security provided under ITB Clause 15 shall also be suitably extended. A Bidder may refuse the request without forfeiting its bid security. A Bidder granting the request will not be required nor permitted to modify its bid, except as provided in ITB Clause 16.3 hereinafter.
- 16.3 In the case of fixed prices contracts, in the event that the Purchaser requests and the Bidder agrees to an extension of the validity period, the contract price, if the Bidder is selected for award shall be the bid price corrected as follows :

The price shall be increased by the factor **(B=10% per Annum)¹** for each week or part of a week that has elapsed from the expiration of the initial bid validity to the date of notification of award to the successful Bidder.

- 16.4 Bid evaluation will be based on the bid prices without taking into consideration the above corrections.

17. Format and Signing of Bid

- 17.1 The Bidder shall prepare two copies of the bid, clearly marking each "Original Bid" and "Copy Bid", as appropriate. In the event of any discrepancy between them, the original shall govern.

- 17.2 The original and all copies of the bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person or persons duly authorized to bind the Bidder to the Contract. The latter authorization shall be indicated by written power-of-attorney accompanying the bid. All pages of the bid, except for unamended printed literature, shall be initialed by the person or persons signing the bid.
- 17.3 Any interlineations, erasures or overwriting shall be valid only if they are initialed by the persons or persons signing the bid.
- 17.4 The Bidder shall furnish information as described in the Form of Bid on commissions or gratuities, if any, paid or to be paid to agents relating to this Bid, and to contract execution if the Bidder is awarded the contract.

D. Submission of Bids

18. Sealing and Marking of Bids

- 18.1 The Bidders shall seal the original and each copy of the bid in separate inner envelopes, duly marking the envelopes as "original" and "copy". He shall then place all the inner envelopes in an outer envelope.
- 18.2 **The inner and outer envelopes shall:**

- (a) be addressed to the Purchaser at the following address:

Directorate of Technical Education & Industrial Training, Punjab, Procurement Unit, (SPIU), Room No.304, 3rd Floor, Plot No 1-A, Sector-36 A, Chandigarh-160036

- (b) bear the Project Name “ **Vocational Training Improvement Project Credit No. IDA 4319-INA**”, the Invitation for Bids(IFB) title and number “**IT/VTIP/WB/NCB/Food Processing/2011-12/9**”, and a statement “**Do not open before (02.30 P.M. on 24-12-2011 X+(30+1) days.)**”
- 18.3 The inner envelopes shall also indicate the name and address of the Bidder to enable the bid to be returned unopened in case it is declared "late".
- 18.4 If the outer envelope is not sealed and marked as required by ITB Clause 18.2, the Purchaser will assume no responsibility for the bid's misplacement or premature opening.
- 18.5 Telex, cable or facsimile bids will be rejected.

19. Deadline for Submission of Bids

- 19.1 Bids must be received by the Purchaser at the address specified under ITB Clause 18.2 (a) no later than the time and date specified in the Invitation for Bids (Section I). In the event of the specified date for the submission of Bids being declared a holiday for the Purchaser, the Bids will be received upto the appointed time on the next working day.
- 19.2 The Purchaser may, at its discretion, extend this deadline for submission of bids by amending the bid documents in accordance with ITB Clause 7, in which case all rights and obligations of the Purchaser and Bidders previously subject to the deadline will thereafter be subject to the deadline as extended.

20. Late Bids

- 20.1 Any bid received by the Purchaser after the deadline for submission of bids prescribed by the Purchaser, pursuant to ITB Clause 19, will be rejected and/or returned unopened to the Bidder.

21. Modification and Withdrawal of Bids

- 21.1 The Bidder may modify or withdraw its bid after the bid's submission, provided that written notice of the modification or withdrawal is received by the Purchaser prior to the deadline prescribed for submission of bids.

- 21.2 The Bidder's modification or withdrawal notice shall be prepared, sealed, marked and dispatched in accordance with the provisions of ITB Clause 18. A withdrawal notice may also be sent by telex or cable or fax but followed by a signed confirmation copy, post marked not later than the deadline for submission of bids.
- 21.3 No bid may be modified subsequent to the deadline for submission of bids.
- 21.4 No bid may be withdrawn 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 bid form. Withdrawal of a bid during this interval may result in the Bidder's forfeiture of its bid security, pursuant to ITB Clause 15.7.

E. Bid Opening and Evaluation of Bids

22. Opening of Bids by the Purchaser

- 22.1 The Purchaser will open all bids, in the presence of Bidders' representatives who choose to attend, at (2.30 P.M. on 24-12-2011 X+(30+1) days). and in the following location:

**Directorate of Technical Education & Industrial Training, Takniki Sikhia
Bhawan, Punjab, Room No.401, 4th Floor, Plot No 1-A, Sector-36 A, Chandigarh-160036**

The Bidders' representatives who are present shall sign a register evidencing their attendance. In the event of the specified date of Bid opening being declared a holiday for the Purchaser, the Bids shall be opened at the appointed time and location on the next working day.

- 22.2 The bidders' names, bid modifications or withdrawals, bid prices, discounts, and the presence or absence of requisite bid security and such other details as the Purchaser, at its discretion, may consider appropriate, will be announced at the opening. No bid shall be rejected at bid opening, except for late bids, which shall be returned unopened to the Bidder pursuant to ITB Clause 20.
- 22.3 Bids (and modifications sent pursuant to ITB Clause 21.2) that are not opened and read out at bid opening shall not be considered further for evaluation, irrespective of the circumstances.
- 22.4 The Purchaser will prepare minutes of the bid opening.

23. Clarification of Bids

- 23.1 During evaluation of bids, the Purchaser may, at its discretion, ask the Bidder for a clarification of its bid. The request for clarification and the response shall be in writing and no change in prices or substance of the bid shall be sought, offered or permitted.

24. Preliminary Examination

- 24.1 The Purchaser will examine the bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the bids are generally in order. Bids from Agents, without proper authorization from the manufacturer as per Section XII, shall be treated as non-responsive.
- 24.1.1 Where the Bidder has quoted for more than one schedule, if the bid security furnished is inadequate for all the schedules, the Purchaser shall take the price bid into account only to the extent the bid is secured. For this purpose, the extent to which the bid is secured shall be determined by evaluating the requirement of bid security to be furnished for the schedule included in the bid (offer) in the serial order of the Schedule of Requirements of the Bidding document.
- 24.2 Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected. If there is a discrepancy between words and figures, the amount in words will prevail. If the supplier does not accept the correction of errors, its bid will be rejected and its bid security may be forfeited.

- 24.3 The Purchaser may waive any minor informality or non-conformity or irregularity in a bid which does not constitute a material deviation, provided such a waiver does not prejudice or affect the relative ranking of any Bidder.
- 24.4 Prior to the detailed evaluation, pursuant to ITB Clause 26, the Purchaser will determine the substantial responsiveness of each bid to the bidding documents. For purposes of these Clauses, a substantially responsive bid is one which conforms to all the terms and conditions of the bidding documents without material deviations. Deviations from or objections or reservations to critical provisions such as those concerning Performance Security (GCC Clause 7), Warranty (GCC Clause 15), Force Majeure (GCC Clause 25), Limitation of liability (GCC Clause 29), Applicable law (GCC Clause 31), and Taxes & Duties (GCC Clause 33) will be deemed to be a material deviation. The Purchaser's determination of a bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence.
- 24.5 If a bid is not substantially responsive, it will be rejected by the Purchaser and may not subsequently be made responsive by the Bidder by correction of the non-conformity.

25. Deleted

26. Evaluation and Comparison of Bids

- 26.1 The Purchaser will evaluate and compare the bids which have been determined to be substantially responsive, pursuant to ITB Clause 24 for each schedule separately. No bid will be considered if the complete requirements covered in the schedule is not included in the bid. However, as stated in Para 11, Bidders are allowed the option to bid for any one or more schedules and to offer discounts for combined schedules. These discounts will be taken into account in the evaluation of the bids so as to determine the bid or combination of bids offering the lowest evaluated cost for the Purchaser in deciding award(s) for each schedule.
- 26.2 The Purchaser'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, sales and other similar taxes, which will be payable on the goods if a contract is awarded to the Bidder;
 - (b) any allowance for price adjustment during the period of execution of the Contract, if provided in the bid.
- 26.3 Deleted.
- 26.4 The Purchaser's evaluation of a bid will take into account, in addition to the bid price (Ex-factory/ex-warehouse/off-the-shelf price of the goods offered from within India, such price to include all costs as well as duties and taxes paid or payable on components and raw material incorporated or to be incorporated in the goods, and Excise duty on the finished goods, if payable) and price of incidental services, the following factors, in the manner and to the extent indicated in ITB Clause 26.5 and in the Technical Specifications:
- (a) cost of inland transportation, insurance and other costs within India incidental to the delivery of the goods to their final destination;
 - (b) delivery schedule offered in the bid;
 - (c) deviations in payment schedule from that specified in the Special Conditions of Contract;
 - (d) the cost of components, mandatory spare parts and service;
 - (e) the availability in India of spare parts and after-sales services for the goods / equipment offered in the bid;
 - (f) the projected operating and maintenance costs during the life of the equipment; and
 - (g) the performance and productivity of the equipment offered.
- 26.5 Pursuant to ITB Clause 26.4, one or more of the following evaluation methods will be applied:
- (a) *Inland Transportation, Insurance and Incidentals:*

- (i) Inland transportation, insurance and other incidentals for delivery of goods to the final destination as stated in ITB Clause 11.2 (iii).

The above costs will be added to the bid price.

(b) *Delivery Schedule:*

- (i) The Purchaser requires that the goods under the Invitation for Bids shall be delivered at the time specified in the Schedule of Requirements. The estimated time of arrival of the goods at the project site should be calculated for each bid after allowing for reasonable transportation time. Treating the date as per schedule of requirements as the base, a delivery "adjustment" will be calculated for other bids at 2% of the ex-factory price including excise duty for each month of delay beyond the base and this will be added to the bid price for evaluation. No credit will be given to earlier deliveries and bids offering delivery beyond 3 months of stipulated delivery period will be treated as unresponsive.

(c) *Deviation in Payment Schedule:*

The Special Conditions of Contract stipulate the payment schedule offered by the Purchaser. If a bid deviates from the schedule and if such deviation is considered acceptable to the Purchaser, the bid will be evaluated by calculating interest earned for any earlier payments involved in the terms outlined in the bid as compared to those stipulated in this invitation, at a rate of 14 percent per annum.

(d) *Cost of Spare Parts: Deleted*

(e) *Spare Parts and After Sales Service Facilities in India:*

The cost to the Purchaser of establishing the minimum service facilities and parts inventories, as outlined elsewhere in the bidding documents, if quoted separately, shall be added to the bid price.

(f) *Operating and Maintenance Costs: Deleted*

(g) *Performance and Productivity of the Equipment: Deleted*

27. Deleted.

28. Contacting the Purchaser

- 28.1 Subject to ITB Clause 23, no Bidder shall contact the Purchaser on any matter relating to its bid, from the time of the bid opening to the time the Contract is awarded. If the bidder wishes to bring additional information to the notice of the purchaser, it should do so in writing.
- 28.2 Any effort by a Bidder to influence the Purchaser in its decisions on bid evaluation, bid comparison or contract award may result in rejection of the Bidder's bid.

F. Award of Contract

29. Postqualification

- 29.1 In the absence of prequalification, the Purchaser will determine to its satisfaction whether the Bidder that is selected as having submitted the lowest evaluated responsive bid meets the criteria specified in ITB Clause 13.3 (b) and is qualified to perform the contract satisfactorily.
- 29.2 The determination will take into account the Bidder's financial, technical and production capabilities. It will be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, pursuant to ITB Clause 13, as well as such other information as the Purchaser deems necessary and appropriate.
- 29.3 An affirmative determination will be a prerequisite for award of the Contract to the Bidder. A negative determination will result in rejection of the Bidder's bid, in which event the Purchaser will proceed to the next

lowest evaluated bid to make a similar determination of that Bidder's capabilities to perform the contract satisfactorily.

30. Award Criteria

- 30.1 Subject to ITB Clause 32, the Purchaser will award the Contract to the successful Bidder whose bid has been determined to be substantially responsive and has been determined as the lowest evaluated bid, provided further that the Bidder is determined to be qualified to perform the Contract satisfactorily.

31. Purchaser's right to vary Quantities at Time of Award

- 31.1 The Purchaser reserves the right at the time of Contract award to increase or decrease by up to 15 percent of the quantity of goods and services originally specified in the Schedule of Requirements without any change in unit price or other terms and conditions.

32. Purchaser's Right to Accept Any Bid and to Reject Any or All Bids

- 32.1 The Purchaser reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to contract award, without thereby incurring any liability to the affected Bidder or bidders.

33. Notification of Award

- 33.1 Prior to the expiration of the period of bid validity, the Purchaser will notify the successful bidder in writing by registered letter or by cable/telex or fax, to be confirmed in writing by registered letter, that its bid has been accepted.
- 33.2 The notification of award will constitute the formation of the Contract.
- 33.3 Upon the successful Bidder's furnishing of performance security pursuant to ITB Clause 35, the Purchaser will promptly notify the name of the winning bidder to each unsuccessful Bidder and will discharge its bid security, pursuant to ITB Clause 15.
- 33.4 If, after notification of award, a Bidder wishes to ascertain the grounds on which its bid was not selected, it should address its request to the Purchaser. The Purchaser will promptly respond in writing to the unsuccessful Bidder.

34. Signing of Contract

- 34.1 At the same time as the Purchaser notifies the successful bidder that its bid has been accepted, the Purchaser will send the bidder the Contract Form provided in the bidding documents, incorporating all agreements between the parties.
- 34.2 Within 21 days of receipt of the Contract Form, the successful bidder shall sign and date the Contract and return it to the Purchaser.

35. Performance Security

- 35.1 Within 21 days of the receipt of notification of award from the Purchaser, the successful Bidder shall furnish the performance security in accordance with the Conditions of Contract, in the Performance Security Form provided in the bidding documents or in another form acceptable to the Purchaser.
- 35.2 Failure of the successful bidder to comply with the requirement of ITB Clause 34.2 or ITB Clause 35.1 shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security, in which event the Purchaser may make the award to the next lowest evaluated bidder or call for new bids.

36. Corrupt or Fraudulent Practices

- 36.1 The Bank requires that Borrowers (including beneficiaries of Bank loans), as well as Bidders, Suppliers, Contractors, and Consultants under Bank-financed contracts, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuit of this policy, 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 a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a 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
 - (aa) 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
 - (bb) acts intended to materially impede the exercise of the Bank’s inspection and audit rights provided for under sub-clause 37.1(e) below.
- (b) will reject a proposal for award if it determines that the Bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive or coercive practices in competing for the Contract in question;
- (c) will cancel the portion of the loan allocated to a contract if it determines at any time that representatives of the Borrower or of a beneficiary of the loan engaged in corrupt, fraudulent, collusive or coercive practices during the procurement or the execution of that contract, without the Borrower having taken timely and appropriate action satisfactory to the Bank to remedy the situation ;
- (d) will sanction a firm or individual, including declaring them ineligible, either indefinitely or for a stated period of time, to be awarded a Bank-financed contract if it at any time determines that they have, directly or through an agent, engaged, in corrupt, fraudulent, collusive or coercive practices in competing for, or in executing, a Bank-financed contract; and
- (e) will have the right to require that a provision be included in Bidding Documents and in contracts financed by a Bank loan, requiring Bidders, Suppliers, Contractors and Consultants to permit the Bank to inspect their accounts and records and other documents relating to the bid submission and contract performance and to have them audited by auditors appointed by the Bank.

36.2 Furthermore, Bidders shall be aware of the provision stated in sub-clause 24.1 of the General Conditions of Contract.

SECTION III: GENERAL CONDITIONS OF CONTRACT

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General Conditions of Contract

1. Definitions

1.1 In this Contract, the following terms shall be interpreted as indicated:

- (a) "The Contract" means the agreement entered into between the Purchaser and the Supplier, as recorded in the Contract Form signed by the parties, including all the attachments and appendices thereto and all documents incorporated by reference therein;
- (b) "The Contract Price" means the price payable to the Supplier under the Contract for the full and proper performance of its contractual obligations;
- (c) "The Goods" means all the equipment, machinery, and/or other materials which the Supplier is required to supply to the Purchaser under the Contract;
- (d) "Services" means services ancillary to the supply of the Goods, such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training and other obligations of the Supplier covered under the Contract;
- (e) "GCC" means the General Conditions of Contract contained in this section.
- (f) "SCC" means the Special Conditions of Contract.
- (g) "The Purchaser" means the organization purchasing the Goods, as named in SCC.
- (h) "The Purchaser's country" is the country named in SCC.
- (i) "The Supplier" means the individual or firm supplying the Goods and Services under this Contract.
- (j) "The World Bank" means the International Bank for Reconstruction and Development (IBRD) or the International Development Association (IDA).
- (k) "The Project Site", where applicable, means the place or places named in SCC.
- (l) "Day" means calendar day.

2. Application

2.1 These General Conditions shall apply to the extent that they are not superseded by provisions in other parts of the Contract.

3. Country of Origin

3.1 All Goods and Services supplied under the Contract shall have their origin in the member countries and territories eligible under the rules of the World Bank as further elaborated in SCC.

3.2 For purposes of this Clause "origin" means the place where the Goods are mined, grown or produced, or from which the Services are supplied. Goods are produced when, through manufacturing, processing or substantial and major assembling of components, a commercially recognized new product results that is substantially different in basic characteristics or in purpose or utility from its components.

3.3 The origin of Goods and Services is distinct from the nationality of the Supplier.

4. Standards

4.1 The Goods supplied under this Contract shall conform to the standards mentioned in the Technical Specifications, and, when no applicable standard is mentioned, to the authoritative standard appropriate to the Goods' country of origin and such standards shall be the latest issued by the concerned institution.

5. Use of Contract Documents and Information

- 5.1 The Supplier shall not, without the Purchaser's prior written consent, disclose the Contract, or any provision thereof, or any specification, plan, drawing, pattern, sample or information furnished by or on behalf of the Purchaser in connection therewith, to any person other than a person employed by the Supplier in performance of the Contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purposes of such performance.
- 5.2 The Supplier shall not, without the Purchaser's prior written consent, make use of any document or information enumerated in GCC Clause 5.1 except for purposes of performing the Contract.
- 5.3 Any document, other than the Contract itself, enumerated in GCC Clause 5.1 shall remain the property of the Purchaser and shall be returned (in all copies) to the Purchaser on completion of the Supplier's performance under the Contract if so required by the Purchaser.

6. Patent Rights

- 6.1 The Supplier shall indemnify the Purchaser against all third-party claims of infringement of patent, trademark or industrial design rights arising from use of the Goods or any part thereof in India.

7. Performance Security

- 7.1 Within 21 days of receipt of the notification of contract award, the Supplier shall furnish performance security in the amount specified in SCC.
- 7.2 The proceeds of the performance security shall be payable to the Purchaser as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.
- 7.3 The Performance Security shall be denominated in Indian Rupees and shall be in one of the following forms:
 - (a) A Bank guarantee or irrevocable Letter of Credit, issued by a nationalized/scheduled bank located in India or a bank located abroad acceptable to the Purchaser, in the form provided in the bidding documents or another form acceptable to the Purchaser; or
 - (b) A cashier's check, certified check, or demand draft.
- 7.4 The performance security will be discharged by the Purchaser and returned to the Supplier not later than 30 days following the date of completion of the Supplier's performance obligations, including any warranty obligations, unless specified otherwise in SCC.

8. Inspections and Tests

- 8.1 The Purchaser or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Contract specifications at no extra cost to the Purchaser. SCC and the Technical Specifications shall specify what inspections and tests the Purchaser requires and where they are to be conducted. The Purchaser shall notify the Supplier in writing in a timely manner of the identity of any representatives retained for these purposes.
- 8.2 The inspections and tests may be conducted on the premises of the Supplier or its subcontractor(s), at point of delivery and/or at the Goods final destination. If conducted on the premises of the Supplier or its subcontractor(s), all reasonable facilities and assistance, including access to drawings and production data - shall be furnished to the inspectors at no charge to the Purchaser.
- 8.3 Should any inspected or tested Goods fail to conform to the specifications, the Purchaser may reject the goods and the Supplier shall either replace the rejected Goods or make alterations necessary to meet specification requirements free of cost to the Purchaser.
- 8.4 The Purchaser's right to inspect, test and, where necessary, reject the Goods after the Goods' arrival at Project Site shall in no way be limited or waived by reason of the Goods having previously been inspected, tested and passed by the Purchaser or its representative prior to the Goods shipment.

8.5 Nothing in GCC Clause 8 shall in any way release the Supplier from any warranty or other obligations under this Contract.

9. Packing

9.1 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. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit 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.

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

10. Delivery and Documents

10.1 Delivery of the Goods shall be made by the Supplier in accordance with the terms specified by the Purchaser in the Notification of Award. The details of shipping and/or other documents to be furnished by the supplier are specified in SCC.

11. Insurance

11.1 The Goods supplied under the Contract shall be fully insured in Indian Rupees against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery in the manner specified in SCC.

12. Transportation

12.1 Deleted.

12.2 Deleted.

12.3 Where the Supplier is required under the Contract to transport the Goods to a specified place of destination within India defined as Project site, transport to such place of destination in India including insurance, as shall be specified in the Contract, shall be arranged by the Supplier, and the related cost shall be included in the Contract Price.

12.4 Deleted

13. Incidental Services

13.1 The supplier may be required to provide any or all of the following services, including additional services, if any, specified in SCC:

- (a) performance or supervision of the 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 detailed operations and maintenance manual for each appropriate unit of 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.

13.2 Prices charged by the Supplier for incidental 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.

14. Spare Parts

- 14.1 As specified in the SCC, the Supplier may be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:
- (a) such spare parts as the Purchaser may elect to purchase from the Supplier, providing that this election shall not relieve the Supplier of any warranty obligations under the Contract; and
 - (b) In the event of termination of production of the spare parts:
 - (i) advance notification to the Purchaser of the pending termination, in sufficient time to permit the Purchaser to procure needed requirements; and
 - (ii) following such termination, furnishing at no cost to the Purchaser, the blueprints, drawings and specifications of the spare parts, if requested.

15. Warranty

- 15.1 The Supplier warrants that the Goods supplied under this Contract are new, unused, of the most recent or current models and that they incorporate all recent improvements in design and materials unless provided otherwise in the Contract. The Supplier further warrants that all Goods supplied under this Contract shall have no defect arising from design, materials or workmanship (except when the design and/or material is required by the Purchaser's Specifications) or from any act or omission of the Supplier, that may develop under normal use of the supplied Goods in the conditions prevailing in the country of final destination.
- 15.2 This warranty shall remain valid for 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 Contract, or for 18 months after the date of shipment from the place of loading whichever period concludes earlier, unless specified otherwise in the SCC.
- 15.3 The Purchaser shall promptly notify the Supplier in writing of any claims arising under this warranty.
- 15.4 Upon receipt of such notice, the Supplier shall, within the period specified in SCC and with all reasonable speed, repair or replace the defective Goods or parts thereof, without cost to the Purchaser other than, where applicable, the cost of inland delivery of the repaired or replaced Goods or parts from ex-works or ex-factory or ex-showroom to the final destination.
- 15.5 If the Supplier, having been notified, fails to remedy the defect(s) within the period specified in SCC, the Purchaser may proceed to take 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.

16. Payment

- 16.1 The method and conditions of payment to be made to the Supplier under this Contract shall be specified in the SCC.
- 16.2 The Supplier's request(s) for payment shall be made to the Purchaser in writing, accompanied by an invoice describing, as appropriate, the Goods delivered and the Services performed, and by documents, submitted pursuant to GCC Clause 10, and upon fulfillment of 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 the invoice or claim by the Supplier.
- 16.4 Payment shall be made in Indian Rupees.

17. Prices

- 17.1 Prices charged by the Supplier for Goods delivered and Services performed under the Contract shall not vary from the prices quoted by the Supplier in its bid, with the exception of any price adjustments authorized in SCC or in the Purchaser's request for bid validity extension, as the case may be.

18. Change Orders

- 18.1 The Purchaser may at any time, by written order given to the Supplier pursuant to GCC Clause 31, 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 shipping or packing;
- (c) the place of delivery; and/or
- (d) the Services to be provided by the Supplier.

18.2 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 delivery schedule, or both, and the Contract shall accordingly be amended. Any claims by the Supplier for adjustment under this clause must be asserted within thirty (30) days from the date of the Supplier's receipt of the Purchaser's change order.

19. Contract Amendments

19.1 Subject to GCC Clause 18, no variation in or modification of the terms of the Contract shall be made except by written amendment signed by the parties.

20. Assignment

20.1 The Supplier shall not assign, in whole or in part, its obligations to perform under the Contract, except with the Purchaser's prior written consent.

21. Subcontracts

21.1 The Supplier shall notify the Purchaser in writing of all subcontracts awarded under this Contract if not already specified in the bid. Such notification, in his original bid or later, shall not relieve the Supplier from any liability or obligation under the Contract.

21.2 Subcontracts must comply with the provisions of GCC Clause 3.

22. Delays in the Supplier's Performance

22.1 Delivery of the Goods and performance of the Services shall be made by the Supplier in accordance with the time schedule specified by the Purchaser in the Schedule of Requirements.

22.2 If at any time during performance of the Contract, the Supplier or its sub-contractor(s) should encounter conditions impeding timely delivery of the Goods and performance of Services, the Supplier shall promptly notify the Purchaser in writing of the fact of the delay, its likely duration and its cause(s). 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 with or without liquidated damages, in which case the extension shall be ratified by the parties by amendment of the Contract.

22.3 Except as provided under GCC Clause 25, a delay by the Supplier in the performance of its delivery obligations shall render the Supplier liable to the imposition of liquidated damages pursuant to GCC Clause 23, unless an extension of time is agreed upon pursuant to GCC Clause 22.2 without the application of liquidated damages.

23. Liquidated Damages

23.1 Subject to GCC Clause 25, if the Supplier fails to deliver any or all of the Goods or to perform the Services within the period(s) specified in the Contract, the Purchaser shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in 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 SCC. Once the maximum is reached, the Purchaser may consider termination of the Contract pursuant to GCC Clause 24.

24. Termination for Default

- 24.1 The Purchaser may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the Supplier, terminate the Contract in whole or part:
- (a) if the Supplier fails to deliver any or all of the Goods within the period(s) specified in the Contract, or within any extension thereof granted by the Purchaser pursuant to GCC Clause 22; or
 - (b) if the Supplier fails to perform any other obligation(s) under the Contract.
 - (c) if the Supplier, in the judgment of the Purchaser has engaged in fraud and corruption, as defined in GCC Clause 34, in competing for or in executing the Contract.
- 24.2 In the event the Purchaser terminates the Contract in whole or in part, pursuant to GCC Clause 24.1, the Purchaser may procure, upon such terms and in such manner as it deems appropriate, Goods or Services similar to those undelivered, and the Supplier shall be liable to the Purchaser for any excess costs for such similar Goods or Services. However, the Supplier shall continue the performance of the Contract to the extent not terminated.

25. Force Majeure

- 25.1 Notwithstanding the provisions of GCC Clauses 22, 23, 24, 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.
- 25.2 For purposes of this Clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not limited to, acts of the Purchaser either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.
- 25.3 If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such conditions 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.

26. Termination for Insolvency

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

27. Termination for Convenience

- 27.1 The Purchaser, by written 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.
- 27.2 The Goods that are complete and ready for shipment within 30 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:
- (a) to have any portion completed and delivered at the Contract terms and prices; and/or
 - (b) to cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and for materials and parts previously procured by the Supplier.

28. Settlement of Disputes

- 28.1 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.

28.2 If, after thirty (30) 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.

28.2.1 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.

28.2.2 Arbitration proceedings shall be conducted in accordance with the rules of procedure specified in the SCC.

28.3 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.

29. Limitation of Liability

29.1 Except in cases of criminal negligence or willful misconduct, and in the case of infringement pursuant to Clause 6,

- (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.

30. Governing Language

30.1 The contract shall be written in English language. Subject to GCC Clause 30, English language version of the Contract shall govern its interpretation. All correspondence and other documents pertaining to the Contract which are exchanged by the parties shall be written in the same language.

31. Applicable Law

31.1 The Contract shall be interpreted in accordance with the laws of the Union of India.

32. Notices

32.1 Any notice given by one party to the other pursuant to this Contract shall be sent to other party in writing or by cable, telex or facsimile and confirmed in writing to the other Party's address specified in SCC.

32.2 A notice shall be effective when delivered or on the notice's effective date, whichever is later.

33. Taxes and Duties

33.1 Deleted.

33.2 Suppliers shall be entirely responsible for all taxes, duties, license fees, octroi, road permits, etc., incurred until delivery of the contracted Goods to the Purchaser.

34. Fraud and Corruption

- 34.1 The Bank requires that Borrowers (including beneficiaries of Bank loans), as well as Bidders, Suppliers, Contractors, and Consultants under Bank-financed contracts, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuit of this policy, the Bank:
- (a) defines, for the purposes of this provision, the terms set forth below as follows:
 - (i) “corrupt practice” means the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the action of a public official in the procurement process or in contract execution;
 - (ii) “fraudulent practice” means a misrepresentation or omission of facts in order to influence a procurement process or the execution of a contract;
 - (iii) “collusive practice” means a scheme or arrangement between two or more Bidders, with or without the knowledge of the borrower, designed to establish bid prices at artificial, non competitive levels; and
 - (iv) “coercive practice” means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the procurement process or affect the execution of a contract;
 - (v) “obstructive practice” is
 - (aa) 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
 - (bb) acts intended to materially impede the exercise of the Bank’s inspection and audit rights provided for under sub-clause 37.1(e) below.
 - (b) will reject a proposal for award if it determines that the Bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive or obstructive practices in competing for the contract in question;
 - (c) will cancel the portion of the loan allocated to a contract if it determines at any time that representatives of the Borrower or of a beneficiary of the loan engaged in corrupt, fraudulent, collusive, or coercive practices during the procurement or the execution of that contract, without the Borrower having taken timely and appropriate action satisfactory to the Bank to remedy the situation;

(d) will sanction a firm or individual, including declaring them ineligible, either indefinitely or for a stated period of time, to be awarded a Bank-financed contract if it at any time determines that they have, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive or obstructive practices in competing for, or in executing, a Bank-financed contract; and

(e) will have the right to require that a provision be included in bidding documents and in contracts financed by a Bank Loan, requiring bidders, suppliers, contractors and consultants to permit the Bank to inspect their accounts and records and other documents relating to the Bid submission and contract performance and to have them audited by auditors appointed by the Bank.

SECTION IV: SPECIAL CONDITIONS OF CONTRACT

SECTION IV: SPECIAL CONDITIONS OF CONTRACT

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Special Conditions of Contract

The following Special Conditions of Contract shall supplement the General Conditions of Contract. Whenever there is a conflict, the provisions herein shall prevail over those in the General Conditions of Contract. The corresponding clause number of the General Conditions is indicated in parentheses.

1. Definitions (GCC Clause 1)

(a) The Purchaser is **State Project Director (SPIU) Vocational Training Implementation Project cum Commissioner of Technical Education & Industrial Training, Punjab, Plot No 1-A, Sector-36 A, Chandigarh-160036**

(b) The Supplier is :

2. Country of Origin (GCC Clause 3)

All countries and territories as indicated in Section XIV of the bidding documents, "Eligibility for the Provisions of Goods, Works, and Services in Bank-Financed Procurement".

3. Performance Security (GCC Clause 7)

3.1 Within 21 days after the Supplier's receipt of Notification of Award, the Supplier shall furnish Performance Security to the Purchaser for an amount of 5% of the contract value, valid upto 60 days after the date of completion of performance obligations including warranty obligations.

In the event of any correction of defects or replacement of defective material during the warranty period, the warranty for the corrected/replaced material shall be extended to a further period of 12 months and the Performance Bank Guarantee for proportionate value shall be extended 60 days over and above the extended warranty period.

3.2 Substitute Clause 7.3 (b) of the GCC by the following:

A cashier's cheque or banker's certified cheque or crossed demand draft or pay order drawn in favour of

Finance Officer, Finance Unit (SPIU), Deptt. Of Industrial Training, Punjab, Chandigarh

3.3 Substitute Clause 7.4 of the GCC by the following:

The Performance Security will be discharged by the Purchaser and returned to the Supplier not later than 60 days following the date of completion of the Supplier's performance obligations, including the warranty obligation, under the contract.

3.4 Add as Clause 7.5 to the GCC the following:

In the event of any contract amendment, the Supplier shall, within 21 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 60 days after the completion of performance obligations including warranty obligations.

4. Inspection and Tests (GCC Clause 8)

The following inspection procedures and tests are required by the Purchaser:

1) Geometrical Test & Practical Test should be carried out as per Indian Standard/ ISO Standard.

2) 100% Pre-Dispatch Inspection will be carried out by the representative of this Directorate or by third party to be decided by this office.

5. Packing (GCC Clause 9)

Add as Clause 9.3 of the GCC the following:

Packing Instructions : 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, the following:

i) Project ii) Contract No. iii) Country of Origin of Goods iv) Supplier's Name, and v) Packing list reference number.

6. Delivery and Documents (GCC Clause 10)

Upon delivery of the Goods, the supplier shall notify the purchaser and the insurance company by cable/telex/fax the full details of the shipment including contract number, railway receipt number and date, description of goods, quantity, name of the consignee etc. The supplier shall mail the following documents to the purchaser with a copy to the insurance company:

- (i) **6** Copies of the Supplier invoice showing contract number, goods' description, quantity, unit price, total amount;
- (ii) Railway receipt/acknowledgment of receipt of goods from the consignee(s);
- (iii) **6** Copies of packing list identifying the contents of each package;
- (iv) Insurance Certificat ;
- (v) Manufacturer's/Supplier's warranty certificate;
- (vi) Inspection Certificate issued by the nominated inspection agency, and the Supplier's factory inspection report; and
- (vii) Certificate of Origin.

The above documents shall be received by the Purchaser before arrival of the Goods (except where the Goods have been delivered directly to the Consignee with all documents) and, if not received, the Supplier will be responsible for any consequent expenses.

7. Insurance (GCC Clause 11)

For delivery of goods at site, the insurance shall be obtained by the Supplier in an amount equal to 110% of the value of the goods from "warehouse to warehouse" (final destinations) on "All Risks" basis including War Risks and Strikes.

8. Incidental Services (GCC Clause 13)

The following services covered under Clause 13 shall be furnished and the cost shall be included in the contract price: The Bidder will provide 2 days training after installation of equipment at the ITI to the Technicians which would include general maintenance tips, sample model/works.

9. Spare Parts (GCC Clause 14)

Add as Clause 14.2 to the GCC the following:

Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spares for the Goods, such as gaskets, plugs, washers, belts etc. Other spare parts and components shall be supplied as promptly as possible but in any case within six months of placement of order.

10. Warranty (GCC Clause 15)

- (i) G.C.C. Clause 15.2:

In partial modification of the provisions, the warranty period shall be **12** months from date of acceptance of Goods or **18** months from the dates of Shipment, whichever occurs later. 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 SCC 4 ;

[The rate should be higher than the adjustment rate used in the bid evaluation under ITB 26.5(f) or (g)]

- (ii) Substitute Clause 15.4 of the GCC by the following:

“Upon receipt of such notice, the Supplier shall, within the period specified in SCC and with all reasonable speed, repair or replace the defective goods or parts thereof, free of cost at the ultimate destination. The Supplier shall take over the replaced parts/goods at the time of their replacement. No claim whatsoever, shall lie on the Purchaser for the replaced parts/goods thereafter.

In the event of any correction of defects or replacement of defective material during the warranty period, the warranty for the corrected/replaced material shall be extended to a further period of 12 months.”

- (iii) GCC Clauses 15.4 and 15.5:

The period for correction of defects in the warranty period is **20** days.

11. **Payment (GCC Clause 16)**

Payment for Goods and Services shall be made in Indian Rupees as follows:

- (i) *On Delivery*: Ninty percent of the contract price shall be paid on receipt of Goods and upon submission of the documents specified in SCC Clause 6 above; and
- (ii) *On Final Acceptance*: the remaining ten percent of the Contract Price shall be paid to the supplier within 30 days after the date of the acceptance certificate issued by the Purchaser’s representative for the respective delivery.

12. **Prices (GCC Clause 17)**

17.1 Prices payable to the Supplier as stated in the Contract shall be subject to adjustment during performance of the Contract

13. **Sub-contracts (GCC Clause 21)**

Add at the end of GCC sub-clause 21.1 the following:

Sub-contract shall be only for bought-out items and sub-assemblies

14. **Liquidated Damages (GCC Clause 23)**

14.1 For delays :

GCC Clause 23.1 -- The applicable rate is 0.5% per week and the maximum deduction is 10% of the contract price.

15. **Settlement of Disputes (Clause 28)**

The dispute settlement mechanism to be applied pursuant to GCC Clause 28.2.2 shall be as follows:

- (a) In case of Dispute or difference arising between the Purchaser and a domestic supplier relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Arbitration and Conciliation Act, 1996. The arbitral tribunal shall consist of 3

arbitrators one each to be appointed by the Purchaser and the Supplier. The third Arbitrator shall be chosen by the two Arbitrators so appointed by the Parties and shall act as Presiding arbitrator. In case of failure of the two arbitrators appointed by the parties to reach upon a consensus within a period of 30 days from the appointment of the arbitrator appointed subsequently, the Presiding Arbitrator shall be appointed by the Indian Council of Arbitration.

- (b) In the case of a dispute with a Foreign Supplier, the dispute shall be settled in accordance with provisions of UNCITRAL (United Nations Commission on International Trade Law) Arbitration Rules. The Arbitral Tribunal shall consist of three Arbitrators one each to be appointed by the Purchaser and the Supplier. The third Arbitrator shall be chosen by the two Arbitrators so appointed by the Parties, and shall act as presiding arbitrator. In case of failure of the two arbitrators appointed by the parties to reach upon a consensus within a period of 30 days from the appointment of the arbitrator appointed subsequently, the Presiding Arbitrator shall be appointed by the Indian Council of Arbitration.
- (c) If one of the parties fails to appoint its arbitrator in pursuance of sub-clause (a) and (b) above, within 30 days after receipt of the notice of the appointment of its arbitrator by the other party, then the Indian Council of Arbitration both in cases of the Foreign supplier as well as Indian supplier, shall appoint the arbitrator. A certified copy of the order of the Indian Council of Arbitration making such an appointment shall be furnished to each of the parties.
- (d) Arbitration proceedings shall be held at **Chandigarh**, India, and the language of the arbitration proceedings and that of all documents and communications between the parties shall be English.
- (e) The decision of the majority of arbitrators shall be final and binding upon both parties. The cost and expenses of Arbitration proceedings will be paid as determined by the arbitral tribunal. However, the expenses incurred by each party in connection with the preparation, presentation etc. of its proceedings as also the fees and expenses paid to the arbitrator appointed by such party or on its behalf shall be borne by each party itself.
- (f) Where the value of the contract is Rs. 10 million and below, the disputes or differences arising shall be referred to the Sole Arbitrator. The Sole Arbitrator should be appointed by agreement between the parties; failing such agreement, by the appointing authority namely the Indian Council of Arbitration.

16. **Notices (Clause 32)**

For the purpose of all notices, the following shall be the address of the Purchaser and Supplier.

Purchaser: **State Project Director(SPIU)(VTIP) cum,
 Commissioner of Technical Education & Industrial
 Training,Punjab, Takniki Sikhia
 Bhawan, (I.T.Wing),Room No 304,
 3rd Floor,Plot No 1-A, Sector-36 A,
 Chandigarh-160036
 Ph.No.(0172) 2614031,
 Fax. No.(0172) 2614622
 E-mail : ditpb_coe_pu@yahoo.com**

Supplier: (To be filled in at the time of Contract signature)

.....

17. Supplier shall regularly intimate progress of supply, in writing, to the Purchaser as under*:

- Quantity offered for inspection and date;
- Quantity accepted/rejected by inspecting agency and date;
- Quantity despatched/delivered to consignees and date;

- Quantity where incidental services have been satisfactorily completed with date;
- Quantity where rectification/repair/replacement effected/completed on receipt of any communication from consignee/Purchaser with date;
- Date of completion of entire Contract including incidental services, if any; and
- Date of receipt of entire payments under the Contract
(in case of stage-wise inspection, details required may also be specified).

* Delete whichever inapplicable

SECTION V: SCHEDULE OF REQUIREMENTS

SCHEDULE OF REQUIREMENTS

Sched ule No	Description	Quanti ty	Delivery Schedule within	Bid Security
1.	Autoclave	4 Nos.	3 Months	1500/-
2.	Automatic Form Fill Seal Machine	7 Nos.	3 Months	23000/-
3.	Baby Fruit Pulper	2 Nos.	3 Months	1000/-
4.	Blancher Cum Sterilizer	1 No.	3 Months	1000/-
5.	Boiler Evaporation	2 Nos.	3 Months	4000/-
6.	Bottle cap tightening machine	12 Nos.	3 Months	2500/-
7.	Bottle Filling Machine	5 Nos	3 Months	3500/-
8.	Bottle Washer	2 Nos	3 Months	1000/-
9.	Bread Cutting Machine	2 Nos	3 Months	1000/-
10.	Butter Churner	2 Nos	3 Months	1000/-
11.	Cabinet Dryer (Electrical)	2 Nos	3 Months	1000/-
12.	Canbody reformer	3 Nos.	3 Months	3000/-
13.	Can Seamer	3 Nos	3 Months	3000/-
14.	Cheese Vat	2 Nos.	3 Months	5000/-
15.	Cream Separator	2 Nos.	3 Months	1000/-
16.	Automatic Cup Sealing Machine	1 No.	3 Months	1000/-
17.	Hand Operated Cup Sealing Machines	2 Nos.	3 Months	1000/-
18.	Deep Fridge	2 Nos	3 Months	1000/-
19.	Destoner	1 No.	3 Months	1000/-
20.	Electric Oven	5 Nos.	3 Months	2000/-
21.	Exhaust Box	3 Nos.	3 Months	1500/-
22.	Fat Measuring Kit	4 Nos	3 Months	2000/-
23.	Fermentor	5 Nos.	3 Months	5000/-
24.	Fruit Mill Junior	2 Nos.	3 Months	1000/-
25.	Grain Cleaner	1 No	3 Months	1000/-
26.	Grinding Machine (Hammer Mill)	1 No.	3 Months	1000/-
27.	Groundnut decorticator	1 No.	3 Months	1000/-
28.	Hand Operated Moisture Meter	20 Nos.	3 Months	7000/-
29.	Hand Operated Plastic Packaging Machine	18 Nos.	3 Months	2500/-

30	Hand Operated Pulping Machine	2 Nos.	3 Months	1000/-
31	Hand/ Table Model Refractometer	2 Nos.	3 Months	1000/-
32	Hot Plate	5 Nos.	3 Months	1000/-
33	Ice Cream Plant	2 Nos.	3 Months	6000/-
34	Juice Extracting Machine	11 Nos.	3 Months	8000/-
35	Laborator Spray Drier Aceptic GMP Unit	7 Nos.	3 Months	4000/-
36	Liquid Filling Machine	12 Nos.	3 Months	7000/-
37	Mawa Machine	2 Nos.	3 Months	1000/-
38	Meat Mincer	1 No.	3 Months	1000/-
39	Micro Pulverizer	2 Nos.	3 Months	3500/-
40	Milk Chiller	2 Nos.	3 Months	2000/-
41	Milk Testing Kit	4 Nos.	3 Months	3500/-
42	Mini Dairy Plant with Complete mini Processing unit	2 Nos.	3 Months	40000/-
43	Mini Dal Mill Power Operated	1 No.	3 Months	1500/-
44	Mini Oil Expeller Power Operated	1 No.	3 Months	1000/-
45	Mini Rice Mill	1 No.	3 Months	1500/-
46	Mixer Grinder	4 Nos.	3 Months	1500/-
47	Pasteurization Unit	2 Nos.	3 Months	2000/-
48	Packle Mixer	5 Nos.	3 Months	3000/-
49	Plantery Mixer	1 No	3 Months	1000/-
50	Platform Scale Balance	3 Nos.	3 Months	1000/-
51	Plumping Machine	4 Nos.	3 Months	3000/-
52	Seed Germinator	3 Nos.	3 Months	5000/-
53	Dough Sheeting Machine	1 No.	3 Months	1000/-
54	Sieve Shaker and Sieves Motorized	4 Nos	3 Months	1000/-
55	Solar Drier (Cabinet Type)	3Nos .	3 Months	1000/-
56	Stainless Steal Table	10 Nos.	3 Months	2000/-
57	Steam Jacketed Kettle	5 Nos.	3 Months	4500/-
58	Sugar Coating Pan	4 Nos.	3 Months	2000/-
59	Syrup Tanks	4 Nos.	3 Months	2000/-
60	Vaccum Pan	3 Nos.	3 Months	1000/-

61	Vegetable Slicing Machine	4 Nos.	3 Months	2000/-
62	Water Purifier	3 Nos.	3 Months	1000/-
63	Wheat Flour Mill	2 Nos.	3 Months	2000/-
64	Oven 5 KW	2 Nos.	3 Months	2000/-
65	Flash Evaporator	2 Nos.	3 Months	1500/-
66	Refrigerator	5 Nos.	3 Months	1500/-

The date of Contract awarded will be the date of delivery schedule to be started.

List of consignees where the equipments are to be delivered.

Schedule No	Description.	Location of Consignee Govt. Industrial Training Institute in	Total Qty
		Nabha	
1.	Autoclave	4 Nos.	4 Nos.
2.	Automatic Form Fill Seal Machine	7 Nos.	7 Nos.
3.	Baby Fruit Pulper	2 Nos.	2 Nos.
4.	Blancher Cum Sterilizer	1 No.	1 No.
5.	Boiler Evaporation	2 Nos.	2 Nos.
6.	Bottle cap tightening machine	12 Nos.	12 Nos.
7.	Bottle Filling Machine	5 Nos	5 Nos
8.	Bottle Washer	2 Nos	2 Nos
9.	Bread Cutting Machine	2 Nos	2 Nos
10.	Butter Churner	2 Nos	2 Nos
11.	Cabinet Dryer (Electrical)	2 Nos	2 Nos
12.	Canbody reformer	3 Nos.	3 Nos.
13.	Can Seamer	3 Nos	3 Nos
14.	Cheese Vat	2 Nos.	2 Nos.
15.	Cream Separator	2 Nos.	2 Nos.
16.	Automatic Cup Sealing Machine	1 No.	1 No.
17.	Hand Operated Cup Sealing Machines	2 Nos.	2 Nos.
18.	Deep Fridge	2 Nos	2 Nos
19.	Destoner	1 No.	1 No.
20.	Electric Oven	5 Nos.	5 Nos.
21.	Exhaust Box	3 Nos.	3 Nos.
22.	Fat Measuring Kit	4 Nos	4 Nos

23	Fermentor	5 Nos.	5 Nos.
24	Fruit Mill Junior	2 Nos.	2 Nos.
25	Grain Cleaner	1 No	1 No
26	Grinding Machine (Hammer Mill)	1 No.	1 No.
27	Groundnut decorticator	1 No.	1 No.
28	Hand Operated Moisture Meter	20 Nos.	20 Nos.
29	Hand Operated Plastic Packaging Machine	18 Nos.	18 Nos.
30	Hand Operated Pulping Machine	2 Nos.	2 Nos.
31	Hand/ Table Model Refractometer	2 Nos.	2 Nos.
32	Hot Plate	5 Nos.	5 Nos.
33	Ice Cream Plant	2 Nos.	2 Nos.
34	Juice Extracting Machine	11 Nos.	11 Nos.
35	Laborator Spray Drier Aceptic GMP Unit	7 Nos.	7 Nos.
36	Liquid Filling Machine	12 Nos.	12 Nos.
37	Mawa Machine	2 Nos.	2 Nos.
38	Meat Mincer	1 No.	1 No.
39	Micro Pulverizer	2 Nos.	2 Nos.
40	Milk Chiller	2 Nos.	2 Nos.
41	Milk Testing Kit	4 Nos.	4 Nos.
42	Mini Dairy Plant with Complete mini Processing unit	2 Nos.	2 Nos.
43	Mini Dal Mill Power Operated	1 No.	1 No.
44	Mini Oil Expeller Power Operated	1 No.	1 No.
45	Mini Rice Mill	1 No.	1 No.
46	Mixer Grinder	4 Nos.	4 Nos.
47	Pasteurization Unit	2 Nos.	2 Nos.
48	Packle Mixer	5 Nos.	5 Nos.
49	Plantery Mixer	1 No	1 No
50	Platform Scale Balance	3 Nos.	3 Nos.
51	Plumping Machine	4 Nos.	4 Nos.
52	Seed Germinator	3 Nos.	3 Nos.
53	Dough Sheeting Machine	1 No.	1 No.
54	Sieve Shaker and Sieves Motorized	4 Nos	4 Nos
55	Solar Drier (Cabinet Type)	3Nos .	3Nos .
56	Stainless Steal Table	10 Nos.	10 Nos.

57	Steam Jacketed Kettle	5 Nos.	5 Nos.
58	Sugar Coating Pan	4 Nos.	4 Nos.
59	Syrup Tanks	4 Nos.	4 Nos.
60	Vaccum Pan	3 Nos.	3 Nos.
61	Vegetable Slicing Machine	4 Nos.	4 Nos.
62	Water Purifier	3 Nos.	3 Nos.
63	Wheat Flour Mill	2 Nos.	2 Nos.
64	Oven 5 KW	2 Nos.	2 Nos.
65	Flash Evaporator	2 Nos.	2 Nos.
66	Refrigerator	5 Nos.	5 Nos.

Specifications

1. **Auto clamp**

Autoclave high pressure electrically heated, vertical steam sterilizer is used for sterilization surgical instruments dressing material linen rubber, plastic, material by means of saturated steam under pressure of 15 psi to 20 psi (Adjustable). Apart from health services it is also used in scientific research institution and universities.

Construction :- Sturdy double walled construction with boiler made of 16 SWG stainless steel sheet is easy to operate. Outer shell is made of mild steel sheet 20 SWG finished with enamel paint. The boiler and outer shell is provided with air insulation. LID is made of stainless steel plate and is tightened all round by using nuts molded joint less gaskets are made of neoprene rubber, sterilizer is hydraulically tested up to 40 PSI.

Accessories :- Autoclave is fitted with pressure gauge, air/steam release cook spring loaded safety valve which can be set at any selected point from 10 psi to 20 psi ISI marked immersion type heating element heats the water and steam to desired temperature and pressure.

Inner size : 14" Dia X 22"

Installation, Commissioning, Demonstration, Operational Manual etc. to be Provided.

2. **Automatic Form Fill Seal Machine**

Fully automatic form fill seal machine using volumetric system of weighting, conducting integrated operations from measuring, pouch making, filling and sealing of pouches.

Suitable to pack paste, jam, and ketchup any free homing liquid. Fitted with positive displacement pump that sucks the required quantity and fills in the pouch. Complete with Photo control panel.

Installation, Commissioning, Demonstration, Operational Manual etc. Should be Provided.

3. **Baby Fruit Pulper**

All contact parts should be made of stainless steel AISI – 304. Mounted on M.S. frame duly fitted with ½ HP Motor. One sieve and one set of nylon brush. Capacity of pulper is 80 Kgs, Tomato / hrs (input)

Installation, Commissioning, Demonstration, Operational Manual etc. to be Provided.

4. **Blancher Cum Sterilizer**

Blanching tank should made up of stainless steel of 6 SWG. Provision of water inlet & overflow outlet. Fitted with stainless steel tubing provided with steam inlet socket & outlet valve. Size Approx: 24 X 24 X 24 with suitable M.S. Stand with three perforated basket and handle. Installation, Commissioning, Demonstration, Operational Manual etc. to be Provided.

5. **Boiler Evaporation**

Boiler

Evaporation

Capacity : 50 Kg / hr. F & A 100o C

Technical Specification : Steam condition : Saturated

Operating Pressure : 2.5 to 3 bar max

Safety Valve Set pressure: suiting to operating pressure

Design pressure : 15 bar

Hydraulic test Pressure : 10 bar

Max Steam temperature : 140o C

Type of Boiler : Fire tube vertically executed with internal flue wet back.

Design – having integrally mounted steel caged furnace at the bottom shop assembled type.

Max. Continuous

Rating : 50 kg/hr.

Max. Pressure

Rating : 43psig (can be set at required limit within the range)

Max. Steam Temp. : 140 degree C that will vary in correspond to pressure & steam super heater.

Fuel to be used : Coal / Wood

G.C.V. of fuel 4500 kcal / kg

Thermal efficiency 82% + 2% based on N C V

Tube Materials: BS – 3059 IBR Quality or ASTM grade

Material Specification: IS – 2002 / ASA – 515 Gr. 70

Tube Dia. : 44 mm - thk. 3.8 to 4 mm

Hydraulic Test Pressure :10 kg / sq. cm

Tube plate thk. : 12 mm & 8 mm

Shell thickness : 6 mm

Fuel Details : Coal / Wood Calorific value considered

Coal – 4500 kcal / kg, Wood – 3000kcal / kg

Thermal Efficiency : 80% ± 3%

GCV of Coal : 4500 kcal / kg

Fuel consumption pick load: 10 kg / hr

On partial Load: 5 to 6 kg per hr on normal running condition

Electrical supply : 220 volts single phase

Floor spaces : 2.8 mtrs. x 2.2 mtrs.

Connected elc load : 0.746 kw.

Boiler Technical Features

Vertical arranged fire tube banks

Higher efficiency due to Hot Water Feeder System

Enough steam space ensures saturated steam

Higher combustion volume

Large heating surface

The Unit Consists of

A. Boiler Shell Vertically arranged – Multi chamber – straight tube – flue pass water back type

shell with tube bunch arrangement.

B. Shop assembled integrally arranged bottom supported all steel construction with Back up fire brick wall and highly insulation lining with refractory mixture & refractory lined.

As the furnace is of in-built design – heat loss being avoided and thus envisage maximum utilization of fuel efficiency.

The measured air gap that provided with brick walled furnace acts as best insulation hence radiation loss is maintained to a minimum level. C. Boiler Mountings

Single post safety valves.

Pressure gauge with siphon.

Main steam stop valve.

Blow down valve.

Gauge glass with cock.

Feed check valve.

D. Feed water supply System

Through Boiler feed water pump with motor complete with base frame and coupling. Feed water supply to boiler is essentially to be maintained as per the level specified on the gauge

E. Other Details

Approximate overall dimension of Boiler Height – 2500mm approx , Width – 700mm approx

Steam outlet branch : 40mm approx.

Water inlet branch : 12 mm to 15 mm.

Blow down : 32 mm approx.

G. Furnace

Steel Caged furnace with CI grate bar & fire door

Unique built water back furnace ensuring complete combustion of volatile matter in the fuel. The thermal fly wheel effect enabling quick start up after every off cycle.

As a thermal storage, it gives good response even on load fluctuation also, due to heat in refractory; it can accept more percentage of fines and moisture in the fuel. Due to greater furnace volume combustion temperature is low and as such, very less refractory maintenance is required.

The combustion chamber is fitted with hand firing CI grates.

The fire doors are provided at the top of the grate on the side of the furnace and ash collections are provided at the bottom of the grate facilitating the removal of under grate ash.

The furnace is primarily a part of the boiler with chemical energy available in the fuel is converted into thermal energy.

The major factors that assist efficient combustion are fines and residues of fuel. The furnace temperature and its heat cycle turbulence cause rapid mixture between fuel and air.

Installation, Commissioning, Demonstration, Operational Manual etc. should be Provided.

6. **Bottle cap tightening machine**

It can be used for capping bottles of Pickles, Jam, Sauces, Juices, etc. Bottles of various mouth sizes can be sealed.

The method of operation is simple. Filled bottles with cap on top is placed on the bottle table. Pneumatic foot switch or hand lever is pressed. The capping head presses on the cap.

Capping handle is turned 45 degrees for capping. A production of about 5-6 bottles per minute can be achieved depending on the dexterity of the operator. The salient features of the machine are:-

Convenience of usage

Minimum maintenance

Good quality pneumatic spares used for longer life

Contact parts are stainless steel

Easy availability of spare parts and therefore lesser downtime

Is light weight and easy for transportation.

Installation, Commissioning, Demonstration, Operational Manual etc. should be Provided.

7. **Bottle Filling Machine**

Single Head

Semi Automatic Filling Machine for Viscous Liquids (GCG)

Specifications :-

Filling range 200 – 1000 ml

Capacity 10 -15 fill / minute.

Single head filler for filling viscous liquids like honey, ketchup, sauces etc pneumatically

operated.

Features :-

Filling precision $\pm 1\%$

Easy to adjust filling measure

Easy to operate, easy to maintain

Adopt import element

Set manual and automatic

Easy to dismantle and install, easy to clean

Made of stainless steel, measure upto GMP

It's suitable for few amount and multiple products.

Installation, Commissioning, Demonstration, Operational Manual etc. should be Provided

8. **Bottle washer**

Bottle Washing Machine Twin Head (Horizontal Model), Bottle Washing by Brush is an ideal for modern laboratories. It can wash the bottle or flask of various sizes due to its chuck taking wide varieties of inter changeable nylon brushes for cleaning them. It is fitted with $\frac{1}{4}$ HP Electric motor covered in a beautiful and well design made of steel duly paint finish complete with chuck locking device and OFF / ON switch, Pilot lamp, cord and plug to work on 220/230 volts AC mains.

Installation, Commissioning, Demonstration, Operational Manual etc. should be Provided.

9. **Bread cutting machine**

Upto 16" loaf can be cut in a big slicer

Upto 9" loaf can be cut in a small slicer

Slice thickness 9mm.

10. **Butter Churner**

Capacity: 20ltr Features: Cream Holding Tank is made of Stainless Steel 304.

Cream Holding Tank should make of Stainless Steel 304. Cream Loading Capacity: 10Liters

Overall Tank Capacity: 20Liters

R.P.M.: 20 to 40 RPM approx

Motor: Electrical $\frac{1}{4}$ HP

Dimension (Unpacked) L W H: 47 18 24 Inches

Packed Volume: 0.4CU.F

Weight Nett: 53Kg.

Weight Gross: 80Kg.

Drive: Variable Pulley Drive

Design: Vertical Top Loading Type.

11. **Cabinet dryer (Electrical)**

Cabinet Dryer, double walled Inner should made of Aluminum, outer body should made of M.S. beautifully powder coated, glass wool insulation, temperature range 500C to 2000C & Controlled by a Digital Temp. Controller – cum – indicator with an accuracy of ± 10 C, Replaceable Strip Heater is used for heating. Ventilation is provided at the top to exhaust the fumes of vapor produced during the operation. A "V" belt driven $\frac{1}{4}$ motor is provided to force air circulation to maintain uniform temperature throughout the inner working area, to work on 220 Volts AC main. (without Trays)

Inner Chamber Size Load Trays

42 X 84 X 91 (CM) 5 KW 12

Installation, Commissioning, Demonstration, Operational Manual etc. should be Provided.

12. Canbody reformer

Mounted on a stand of mild steel MS.

It is suitable for shaping flattened cans into cylindrical bodies.

It can be used between 200-700 dia range and 1-1/2" – 10" height.

Equipped with 1 HP 1440 RMP Motor.

Electric Supply suitable for 400V + 5%, 3 Phase, 50 Hz supply

It will be supplied with starter, V belts, pulleys etc.

The size of rubber rollers and bearing will depend on the size of the can.

Capacity approx 600-800 cans per hour.

a) Rubber Rollers

301 Dia

401 Dia

603 Dia / 700 Dia

Roller Bearings

301 Dia - 2 Nos.

401 Dia – 2 Nos.

603 Dia – 2 Nos.

700 Dia – 2 Nos.

Installation, Commissioning, Demonstration, Operational Manual etc. should be Provided.

13. Can Seamer

Mounted on a mild steel stand.

It is suitable for seaming cans between 202 – 700 Dia range and 2" – 9 3/8" height Range.

Equipped with 1 HP 1440 RPM Motor.

Electric Supply suitable for 400 V +5%, 3 Phase, 50 Hz supply

It has a starter standard base plate, V belt, pulleys etc.

Capacity approx. 600-800 cans per hour.

The cost of seaming rolls would be extra.

a) Cost of Seaming Chucks

202, 207 & 211 Dia

301 Dia

401 Dia

603 Dia

700 Dia

Seaming Rolls

Adapter Plate

202, 207, 211 & 301 Dia.

401, 509, 603 & 700 Dia.

Installation, Commissioning, Demonstration, Operational Manual etc. to be Provided.

14. Cheese vat

Cheese vat :

should Made of heavy Stainless steel (306), size approx. 4'X 2.5'X 1' with proper outlet and taps

Capacity: 100 L, max temperature: 92 °C

Type of heating: electricity , oil oven

Temperature controller: ELIVELL

Cooling: water

Mixer: 250W, controlled with frequency inverter

Outlet DN 40 - DN 80

Material SS 304 or 316

Surface : B2

15. Cream Separator

Motor operated Centrifugal Capacity upto 1-2 kg Cream/minute
Capacity 60 LPH Electrically operated with Stainless Steel Bowl Discs complete with stainless steel Receiving Tank and Stainless Steel / plastic spout set. Table Model. Power Consumption AC 220 Volts 50 Hz.

16. Automatic Cup Sealing Machine

Voltage AC 220, 50 Hz
Power Consumption 500 Watts
Sealing speed 500 cups/hour
Machine Weight 45 Kgs

17. Hand Operated Cup Sealing Machines Cup sealer

Sealing Area 150mm dia
Operation Hand operated
Heater watts 500 Watts
Power AC 220V, 50 Hz

18. Deep fridge

Ultra Low Temperature Cabinet Stainless Steel Interior Provided with Digital Temperature indicator cum controller Horizontal Chest Model Temperature Range Up to Minus 200C.

Specification :-

Construction :-

Body of sheet steel treated to prevent corrosion, protected by high impact acrylic varnishing.

Inner chamber made of stainless steel with a smooth surface, easy to clean and maintain. Insulation by a combination of polysterene sheet and glass wool to protect against high ambient conditions.

Solid doors, double-sided and insulated, balanced for easy opening. Sub – doors and positive closure assure tight seal to prevent frost build- up.

Door locking Device with key.

Cabinet mounted on recessed heavy duty castors for easy mobility.

Refrigeration :-

By oil cooled, hermetically – sealed, ISI marked compressor with adequately balance evaporating and condensing coils.

Controls :-

Solid state adjustable Temperature Controller, recessed to prevent tampering.

PT – 100 temperature sensors for maximum accuracy.

Digital Temperature display, resolution to 10C.

The controller ensures control – measurement adjustment of set point temperature.

Safety Devices :-

Built in delay relay system to safe guard the compressor from abrupt starting on restoration of power after power failure.

Technical Specification :-

Model : Horizontal Chest

Optimum Temperature : Minus 200C

Operating Temperature : Minus 200C

Operating Voltage: 220/230 Volts, Single phase AC mains.

Size: 4.5 Ft.

Installation, Commissioning, Demonstration, Operational Manual etc. to be Provided.

19. Destoner :

For cleaning

light materials, air classifier

type Capacity: 100 kph, 1/4 hp motor.

20. Electric oven

Hot Air Oven, electrically operated, Digital Temperature controller – cum – Indicator is used for controlling temperature, Double walled inner made of Stainless Steel, outer body made of Mild Steel beautifully painted, glass wool insulation, temperature range 0oC to 250o C Temperature with an accuracy of $\pm 10C$, To work on 220Volts AC main.

Inner Size : 15” X 15” X 18”

Installation, Commissioning, Demonstration, Operational Manual etc. to be Provided.

21. Exhaust box

Capable of passing two A 2 ½ cans at a time.

Mounted on a mild steel stand

Bottom and upper cover is made of aluminum

Speed of exhaust box is adjustable in three desired speeds

Suitable for exhausting air out of filled cans before sealing.

It helps in removing all gases from the headspace which will minimize strains on seams during retorting.

It helps to remove oxygen, which could otherwise cause corrosion, oxidization and discoloration of the can or the product.

Made of aluminum cover top/bottom of 16 SWG.

The can is conveyed by means of M.S. or S.S. slat chain conveyor.

The exhaust comes with 3 variable speed options depending upon the product to be exhausted.

12’ (with MS slat chain)

Installation, Commissioning, Demonstration, Operational Manual etc. to be Provided.

22. Fat measuring kit

Fat measuring kit

Consisting of Electrical Centrifuges Ge 3 Series 24 Test. Centrifuges Machine 12 Test hand Operated 1 No.

Milk Butyrometer ISI marked 1 No.

Lock Stopper ISI marked 4 Dozen

Lock Stopper key 5 no.

Milk Pipette ISI Marked 12 Nos.

Tilt Measure 1 ml 4 Nos

Tilt Measure 10 ml 4 Nos.

Sample Bottle 100 ml 50 Nos.

Butyrometer Stand 12 Test (Plastic) 1 No.

Pipette Stand Plastic 1 No.

Sample bottle brush 1 gross

Pipette Brush 1 gross

Sample bottle brush 1 gross

S.S. Sample dipper 100 ml 1 NO
 Wash bottle 10 Nos
 Thermometer 0-110 C Alcohol 10 Nos.
 Lactometer 0 – 40 84 F zeal 1 Dozen
 Lactometers jar Plastic small size.
 Amyl alcohol A grade 5 ltrs.
 S.S. Can Plunger 1 No.
 Milky Sure Urea Testing 1 Pack (Complementary)
 Installation, Commissioning, Demonstration, Operational Manual etc. should be Provided

23. Fermentor

Glass Fermentor is consisting of following parts :
 a) Glass Vessel, (b) S.S. Lid, (c) Neck Clamp (S.S) (d) Fixing bolt (S.S). (e) Sampling Port, outlet tubing, Aeration tubing all of (S.S) (f) Neoprene 'O' Ring, (g) Micro perporation for acration. (g) Membrans filter holder, (j) Pinch Cock. (h) Silicon Rubber tubing & Acration Pump. (i) Capacity of Glass Vessel: 10 Ltrs.
 Installation, Commissioning, Demonstration, Operational Manual etc. to be Provided.

24. Fruit mill Junior

Mounted on a M.S. stand with 1 HP/3PH motor. All contact parts made of should stainless steel (AISI 304). Capacity 500 Kgs per hour. The product is fed into hopper and the product gets crushed by SS rotor which curshes it against the SS blades.
 Installation, Commissioning, Demonstration, Operational Manual etc. to be Provided.

25. Grain cleaner

Grain cleaner : Power operated, 1/4 HP; 100 Kg/hr Capacity :
 Size of each screen : 142 x 178 cms W x L
 Screen Inclination
 Top : Variable
 Bottom : Fixed
 Screen Perforation Cleaning Device : Rubber Balls
 No. of aspiration : Three
 Fan Capacity : 7000 CFM at 75 mm WGSP
 Fan Speed : 980 RPM
 Electric Motor: 7.5HP, 3 Phase, 440V
 O.A. Size L x W x H : 287 x 215 x 299 cm

26. Grinding Machine (Hammer Mill)

Hammer mill power operated
 1 hp 50kg/hour
 Heavy duty with following capacity electric motor, single phase to work on 220 volts AC consisting of four steel hammers fixed to a disc of following dia inside the chamber through which passes a shaft being revolved at approx. 3000 RPM.

27. Groundnut decorticator

height 3', width 2.5', length 4' hand operated: Hand operated Capacity of machine 20 kg/hour .Rubber type blade cutter for dehuller of ground nut into small pcs.

28. Hand operated moisture meter

These instruments are used to measure the moisture content of materials that do not change their chemical structure while losing water under exposure to infrared radiation. The balance scale is divided directly in moisture percentages from 0 to 100% in 0.2% divisions. A thermometer is provided for estimating the temperature of the drying chamber. Our instruments are used in industries for:

- Ø Testing soils used in construction
- Ø Agricultural soils
- Ø Chemicals raw materials
- Ø Foods
- Ø Pharmaceuticals
- Ø Plastics and similar materials.

Installation, Commissioning, Demonstration, Operational Manual etc. to be Provided.

29. Hand operated plastic packaging machine

is Ideal for bakeries, groceries, fast food counters, sweetmeat shops, fruit shops, Pepsi makers etc. the machine is an ideal substitute for staplers which cannot be used for packaging food products.

Sealing Length : 12"

Sealing Width : 1.5 mm

Watts : 250 W.

Installation, Commissioning, Demonstration, Operational Manual etc. should be Provided.

30. Hand operated Pulping machine

Specially designed to make pulp of fruits & veg. Like : Chilli/Ginger/Garlic. All contact parts made of SS-304, with 1/2 HP Motor. 80 kg per hour capacity.

Installation, Commissioning, Demonstration, Operational Manual etc. to be Provided

31. Hand / table model refractometer

Abbes type, 0-32, 28-70. 58-90 of 0-100(Bench type)

32. Hot plate

Hot plate electrically operated to work on 220/230 volts, single phase, AC mains temperature range up to 3000C. Outer casing is made of thick gauge mild steel finished by heat resistant paint. Top is made of mild steel machine finished. A 3 heat rotary switch for LOW, Medium, & High operation is fitted with the unit. Heaters controlled by means of Energy regulator, the unit Supplied complete with main cord, connector, plug top, main indicating lamp & load indicating pump.

Plate size : 12" X 18" 2 KW Load

Installation, Commissioning, Demonstration, Operational Manual etc. should be Provided.

33. Ice cream Plant

Batch paste riser (S.S) gas operated the tank would be used for heating of mix wherein milk, cream, sugar and other additives, if required, are added

to pasteurize the mix at 80°C. The tank would be gas operated with agitator, electrical panel board and digital temperature indicator inner and outer shell of SS.

Ø High Pressure Homogenizer

Ø The Homogenizer is used to Homogenize the prepared mix in the batch pasteurizer and make the product consistent. The product would be Homogenized @ 80°C

Ø The Homogenizer would be manually operated two stage Homogenizing valve and valve seats are made of Satelite.

Ø Ice Cream Chiller :

Ø It would be a plate type chiller to cool the Homogenized mix from 80° to 40° before it is fed the Ageing Vat.

Ø The single section plate heat exchanger will be used for chilling the milk from 80°C to 40°C by means of tap water at 32° C. The ratio of Cooling Tower water and chilled water would be 1:6. The frame and pressure plate of the PHE Shall be fabricated out of mild steel plates cladded with SS Sheets.

Plates will be made of SS-316

Ø The Supporting structure of the PHE will be of multi bolt tightening type design to be operated manually with SS ball Feet arrangement.

Ø Utility Required : well water @ 35 deg cent.

Ø Ageing Vat :

Ø The homogenized mix, which has been cooled down to 40° is fed into Ageing Vat and stirred slowly for ageing purpose.

Ø The tank would be provided with suitable agitator, S.S. cover, legs with ball feet, and other standard accessories and with refrigeration and controls., inner and outer –SS

Ø Batch Freezer

Ø Batch Freezer with Refrigeration and Electrical panel

Ø Transfer Pump

Ø This pump will be used to transfer the milk from Pasteurization tank to High Pressure homogenizer. This pump is basically a hygie

version pump with all milk contact parts will be made from SS304 and mecha al seal to avoid the milk coming of rotating part. This pump will have drive motor to run the pump. It will also have SS shroud to protect the motor. This pump will have ball feet for floor adjustment.

Ø Skid for the above

Ø MCC panel with Cables and conduits

Ø Interconnecting Pipes & fittings

34. Juice extracting Machine

Made of pure aluminium and one sieve of stainless steel with self attached ½ HP Motor and starter. Capacity approx 800 oranges per hour.

Installation, Commissioning, Demonstration, Operational Manual etc. should be Provided.

35. Laborator spray drier Aceptic GMP Unit

Solvent/Aqueous Feeds

Co- Current Spray

Twin Cyclon

Microprocessor

RS 232 Port

Capacity 1 kg/hr Water Evaporation Rate

Add On / Upgradeable / Compatible Features :

- Counter Current Spray
- Spray Congealing
- N2 Inert Loop
- Ultrasonic Spray Nozzle
- Teflon Membrane Scrubber
- Teflon Tube Peristaltic Pump
- Teflon Membrane Absolute Filter
- Spray Drier Software
- US FDA 21 CFR Part 11 Compliance software.

36. Liquid filling machine

:for 200ml, 500ml,1000ml bottles

Liquid Filling Machine should suitable for accurate filling liquids like syrup, solution etc, in bottle. Machine consists of two filling heads syringe type ½ HP Motor. All contact parts should made of stainless steel 304 grade. Filling capacity 50 – 450 ml, Capacity – 2 Heads Installation, Commissioning, Demonstration, Operational Manual etc. to be Provided.

37. Mawa Machine

- Fully stainless steel body
- Reduction gear box
- 1 hp electric motor

38. Meat mincer

20kg/hr., 565x365x520mm, power 0.9 kw

39. Micro pulverizer

Premium micro pulveriser, WITH AUTO FEEDER having grinding chamber with serrated liner of 25 mm. DIA., 6 NOS. Hammers, base frame on four legged stand, feed hopper, air relief balloon, product collection bag, perforated screens (2 nos.), set of v-belts, belt guard, 2 HP electric motor – 2880 rpm and 0.5 HP. electric motor feeder, D.O.L starters for motors and duly painted as per premium standards.

- 1) Main Body : C.I.
- 2) Shaft : EN -8
- 3) Hammers (24 Nos) : M.S. Forged
- 4) Catch Plates : M.S.
- 5) Screens (02 Nos) : M.S. perforated
- 6) Feed Screws (03 Nos) : M.S. Forged
- 7) Stand, belt guard : M.S.
- 8) DOL Starter (02 Nos) : -----

Installation, Commissioning, Demonstration, Operational Manual etc. should be Provided.

40. Milk Chiller

For chilling
milk up to a temperature

of about -100°C , i. The milk cooled at $+2^{\circ}\text{C}$ online process with plate type heat exchanger. The evaporators should be designed with SS 304, 316 L Grade plate type heat exchangers. Milk chillers will maintain a temperature range from $+2^{\circ}\text{C}$ to $+30^{\circ}\text{C} \pm 1^{\circ}\text{C}$, capacity from 3000 Kcal/Hr to 150000 Kcal/Hr, 30 LPM to 650 LPM with different flow capacity.

ii. Design parameters:

Heating Medium: Live Steam of 3.kg/sq.cm Design pressure of the jacket: 6 kg / sq- cm. The volume of the pan measured 100 mm below the brim shall be of 500 ltrs. The pan shall be double walled and jacketed construction

Required services :

Steam : Live Steam Of 3.0 Kg / Sq. Cm Electric power : 3 phase, 415 V, 50 hz, A/C Supply

Tilting arrangement of the pan :

Two heavy duty hollow shaft shall be welded to the jacket and this shafts shall be supported on the stand through bush bearing. The stand shall have four legs and these legs will have footings for grouting in the foundation. The material of the stand shall be of s.s 304.

Heating of Pan:

Heating shall be provided to the pan by feeding live steam at 2 to 2.5 kg/ sq-cm to the jacket and the condensate shall be discharged out from the bottom most part of the jacket and it shall be complete with steam trap and by-pass valve.

41. Milk testing kit

Milk testing kit

It should test FAT, SNF & Added Water at a speed of 80 samples per hour. With Semi Auto cleaning system, the machine works with a very advanced Peristaltic Pump. Which

maintains one way milk flow system, that is useful for better accuracy and repeatability of results

And also longer life of components. The machine is portable with provision to connect serial printer

And computer interfacing through Rs. 232 Port.

Technical Specification

To measure Fat, SNF and added water

Speed – Current Models : 90/55 samples per hour

Sample Volume: 15 ml.

Sample Temperature : 5°C – 35°C

Products Measured : -

Cow, Buffalo, Sheep, Goat and mixed milk in the form of raw,

Full Cream, Skimmed, Pasteurized, UHT, Milk and Cream. The machine can be calibrated for three kinds of milk at a time.

Measuring Specifications:

Contents Measuring Range Resolution Accuracy

Fat 0.00% to 20.00% 0.01%

SNF 6.00% to 12.00% 0.0%

Water Content 0.0% to 70.00% 0.1%

Conductivity From 2 to 14 mS/cm. ± 0.05 (mS/cm)

Other Specifications :-

Use of Chemical : No

Ambient Temperature : From 5°C to 45°C

Relative Humidity : From 30% to 80%

Power Supply : 220v + 20 volts
 Cleaning : Semi Auto
 Power Consumption: 50 W (Max.)
 Weight : 3.5.00 k.g. (Net without packing)
 Dimensions: (W x H x D) (290 x 300 x 330m.m.)
 PC Interface : RS 232 Port
 Printer Connectivity : Connectivity available on Serial Port
 Installation, Commissioning, Demonstration, Operational Manual etc. should be Provided.

42. Mini Dairy Plant

Mini Dairy Plant with Complete mini Processing unit For Milk Homoginiser & Pasteuriser
 50 LPH lab Model Skid Mounted Processing Module Milk

Skid Mounted Process Module consist of

High pressure homogenizer : 50LPH Qty : 1 No

High pressure homogenizer Model H – 102 with

Homogenizing head having discharge capacity of 50 LPH at the pressure of 200 bar with 1 HP TEFC Electric Motor ‘V’ Belt drive arrangement with frame and stainless steel cabinet enclosures. Homogenizing valve seats are Stellite material & contact parts are of SS 304

Accessories :

1.SS diaphragm type pressure gauge, 0-400 kg/cm²: 1No

2.commissioning Spares : 1Set

3.Instruction Manual & Tool Kit

2. Pasteurizer PHE Type : 50 LPH Qty : 1 Unit

The Plant will be HTST type and will be used for pasteurization of product

Feed temperature 30°C Past temperature 80°C Outlet temperature 4°C Plate Material
 SS – 316 Material of gasket NBR Food Grade Holding In tubes (16

sec) Plate Area Utilities required

Hot Water required 100 LPH at 85°C

Chilled Water required 150 LPH at 2°C

ACCESSORIES :

1. Feed Tank (50Ltrs) :1 No.

2. Sanitary Pump (0.5 HP) : 1 No.

3. Inline Filter : 1 No.

4. Holding tube : 1 No.

5. Flow Diversion Valve:1No. 6. Remote Control Panel : 1 No.

7. Interconnection Pipes and Fittings : 1 lot.

3. Electrically Operated Hot Water generator : 3 KW Qty : 1 No.

Water pump Motor : 0.5 HP

The above unit complete with top mounted electrical heater, Control panel and Hot Water pump motor assembly. The unit painted with two coats of heat resistive, anticorrosive paints from inside and outside.

4. Packaged type Chiller:1 TR Qty : 1 No.

Refrigeration unit to give chilled water at 1.5° C pasteurizer. The unit consist of Freon Compressor with motor, necessary controls.

5. Skid for the above: Qty : 1 No.

6. M.S. Pipes & Fitting Qty : 1 lot M.S. Pipes & Fittings for the above

equipment will be Supplied as per the lay out would be provided.
7. Installation & Commissioning of the above.

43. Mini Dal Mill Power operated,

2 Hp 100 kg/hr Operated by 2 H.P. Electric motor/Oil Engine

- * 78% to 80%-Recovery of head pulses
- * 1% to 3% Recovery of Brackens
- * Dehusks & Splits all pulses including MOONG(Green Gram) 98% to 100%
- * Retains proteins and natural shine
- * Automatic arrangements of collection of dehusked & split pulses, un-dehusked pulses, brackens, husk in separate containers and bags.
- * Dust free operation
- * Rotating parts are balanced for reducing friction losses & noise.
- * Size of machine: Length 1650 mm Width 900 mm Height 1350 mm.

44. Mini oil expeller Power operated

Mini oil expeller Power operated 10hp 25liter/hour

- A) Single Gear system with oil Bath arrangement Low Noise – Fitted with specially Designed worms (One single worm screw)
Chamber size (14"x2.5")
Crushing capacity 30 kgs/hr
- B) Essential Spare Parts one set
- C) Filter Press 10"x10" – 10 Plates with Filter Pump.
- D) Steam Ketly Round for cooking Seeds
- E) Boiler – for preparing Steam – suitable for above Expeller
- G) Miscellaneous Electrical and non Electrical item
- H) Oil Tank
- I) Channel Foundation Frame

45. Mini rice mill : Power operated,

2 HP 100 Kg/hr Length of Rubber Roll
H.P. required
Capacity (paddy per hour)
Polishing Unit :
5" x10"
20
300 - 350 Kgs
No.1 Huller with Bearings

46. Mixer-grinder

Powerful motor : 550 watts, 18000 rpm
3 stainless steel jars
Overload protector
Installation, Commissioning, Demonstration, Operational Manual etc. should be Provided.

47. Pasteurization Unit

Continuous MSMP 250 LPH

The plate pasteurization unit is well suited for pasteurization of Milk.

Standard Design

1. Balance Tank is stainless steel, inside and outside polished, equipped with S.S. Float and loose cover.
 2. Stainless Steel centrifugal pump for product, complete with electrical motor.
 3. Plate heat exchanger with frame clad with stainless steel. The plate pack is clamped between frame and head and follower by means of stainless steel tie bars placed along the edge of the frame.
 4. External holding time : 20 seconds.
 5. Stainless steel electrical water heating set
 6. Set of temperature regulating equipment consisting of Control Panel for controlling and recording of the Pasteurization and outlet temperature.
 7. set of internal stainless steel pipes, fittings and base frame for mounting of the equipment
 8. The equipment is assembled on base frame and tested in our factory.
- Installation, Commissioning, Demonstration, Operational Manual etc. should be Provided.

48. Pickle mixer

Should Made of inless steel 304 U Shape chamber with rotating blades which turn mix the product inside. Mounted on MS frame. The drum is tiltable for easy removal of product equipped with 2 HP motor. And reduction gear box ROTARY Type, Capacity : 50 KGs / batch.

Installation, Commissioning, Demonstration, Operational Manual etc. should be Provided.

49. Plantery Mixer,

3 Gear Heavy Duty, all Pressure, Mixers use a Powerfull planterymixing action to thoroughly blend

mix and aerate, all ingredients with consistent and predictable, results.

10 Qt. Mixer with 3- speed

1/2 Hp(Continuous duty)

Totally enclosed. amd Permantly Lubricated,

Thermally Protected Motor, Furnished in 115/60/1, 6amp. Ac. Etc Listed.

50. Platform scale balance

Capacity : 120 Kg, Accuracy : 5 gm, Pan size : 500 X 500

Installation, Commissioning, Demonstration, Operational Manual etc. should be Provided.

51. Plumping Machine

This machine is designed for extracting the pulp of most fruits and vegetables such as mangoes, guavas, peaches, tomatoes, banana etc. Mounted on a heavy duty mild steel

stand, the central pulping unit of the machine consists of a pair of brushes fixed on stainless steel the central pulping unit of the machine consists of a pair of brushes fixed on stainless steel shaft and one stainless steel sieve. “MAC” MSW – 611. The gap between the sieve and the brushes can be adjusted to suit different types, sizes and qualities of the product to be pulped the sieve is available in perforations of different sizes and is easily removable for quick interchanging the cleaning. All contact parts are of S.S. 304 grade stainless steel. Capacity: 200 kg/ hr fitted with 1 / 2 HP Motor.
Installation, Commissioning, Demonstration, Operational Manual etc. should be Provided.

52. Seed germinator

Seed germinator

(Single Chamber)

Seed Germinator Single chamber with automatic temperature control by digital temperature controller and constant relative Humidity 90% ($\pm 5\%$) complete with cycle illumination system Day/ Night effect.

Technical Specification :-

Construction: Double walled construction inner chamber is of S.S.

Outer made of M.S, sheet powder coated.

Insulation : With Non-Hygroscopic glass fibre.

Doors : Double door, inner door full view plexi glass and

Outer of mild steel sheet

Illumination & Photo Periodic control: - 4 Nos of 2' long Fluorescent lamp & an 0 to 24 hr timer programmable for 4, 6, 8 and 12 hourly intervals prolonged.

Air circulation: By means of a smooth running blower motor to main uniform temperature inside working chamber.

Cooling : By ISI marked Hermetically Sealed compressor.

Heating: By means of low wattage heater.

Temperature Range : 50C to 500C with an accuracy of $\pm 10C$

Temperature Control: By a solid state Digital Temperature Controller-Cum indicator with PT – 100 Sensor.

Humidity Range : Humidity to 90%, to 95% $\pm 3\%$ RH (non Adjustable)

Trays : 8 Nos made of Stainless Steel Perforated

Safety Device: Electronic Time Delay / Relay device to protect Refrigeration compressor.

Power Req'd. : 220 / 230 V Single – Phase 50 Hz AC Mains.

Capacity: 6 Cft (with 8 Nos. Trays)

Installation, Commissioning, Demonstration, Operational Manual etc. should be Provided.

53. Dough sheeting machine

1. Voltage: 220V.

2. Frequency: 50Hz, one phase.

3. Motor Power: 0.75KW.

4. Dimension: 1700*700*103

Design to make any type of crisp cakes

Small size, Portable, durable and high efficiency

It can press flat dough (1~20mm) in even thickness

54. Sieve shaker and sieves Motorized

The Rotap Sieve Shaker reproduces the circular and tapping motion of hand sieving and provides a uniform mechanical action, ensuring accurate, dependable and precisely repeatable results. It can take upto five sieves of 150 mm or 200 mm diameter. Wired for 230 V. sph 50 Hz.

With following sieves : 4mm , 3.35mm,2.80mm,2.36mm , 2.00mm 1.68mm, 1.40mm mm ,1.20mm , 1.00mm 850 micron, 710micron, 600micron, 500micron, 425micron, 355micron, 300micron, 250micron, 212micron, 180micron,150 micron , 125 micron , 106 micron, 90 micron , 75 micron , 63 micron ,53 micron , 45 micron.

The whole set-up is well designed and arranged in good quality painted structure. Installation, Commissioning, Demonstration, Operational Manual etc. to be Provided.

55. Solar Drier (cabinet type)

Complete with solar box

size6'x3'IN THIS DRYER, WE CAN DRY THE FRUITS & VEGETABLES, SPICES, FOOD ITEMS, GREEN LEAFS, FARM PRODUCE, FRUIT BARS ETC.

Solar dryer – 1 of maximum 50 Kg) Wet products loading capacity at 14 Kg per Sq.M of High density material of wet products), with Solar window of 2.23 Sq. m, Solar drying area of 3.60 Sq.m, non-corrosive Aluminium cabinet coated with high temperature black powder coating & stainless steel and brass hardware, 12 stainless steel (S.S.304) closed trays of size 1100mm x 260mm x 20mm each, 3 Solar fans 12V DC, 3 Solar Photovoltaic panels of total 21W, standby A.C. electrical power connection total 3.6 KW., 220 VAC, Thermometer and dust cover.

Size of the Dryer is 6' x 4' x 3.5'.

56. Stainless Steel table

Stainless Steel Table should made of (304 quality 8 SGW) Complete with 6 nos. S.S. frame and stand with Mat finished

Dimension of the Table : 6' X 3' (Table Size) 2.5' (Stand Size)

57. Steam Jacketed Kettle

Capacity 10 Gallons

Mounted on a mild steel stand.

The Kettle has a tilting arrangement through worm gear/ pinion which helps to completely empty the contents from it.

Jacket and pan made of 10/10 SWG. Stainless steel.

Complete with pressure gauge, safety valve, and steam pet cock.

The kettles are 2/3 jacketed for maximum steam utilization and efficiency.

Kettle bottom with hemispherical design for heat transfer.

Easily maintainable.

Selectable cooking temperature according to the steam provided.

The temperature shall rise and will be hot enough to properly cook food.

The temperature shall be completely uniform throughout the entire jacketed surface of the kettle to eliminate any hot spots to scorch the pan or product.

Installation, Commissioning, Demonstration, Operational Manual etc. should be Provided.

58. Sugar coating pan

Sugar Coating Pan should made of Stainless Steel, Driven by ¼ HP motor and rotation speed controlled by Gear box. The unit is mounted on Mild steel structure and rotated by

driver shaft, heating blower arrangement will be provided at the top of the pan at the time of rotation, Workable on 440 Volts ac mains

Pan Dia : 24 “

Installation, Commissioning, Demonstration, Operational Manual etc. should be Provided.

59. Syrup tanks

syrup tank is double walled construction Inner should made of stainless steel, Outer body made of Mild steel, with Lid, the unit is mounted on 3 legs 3 Nos, heater are placed at the side of the outer Vessel. The inner and outer chamber is filled with high Temp, oil electrically operated, workable on 220 Volts AC only. The unit is fitted with gauge glass and steam release cock.

Size : 100 Ltrs

Installation, Commissioning, Demonstration, Operational Manual etc. should be Provided.

60. Vaccum Pan

Fabricated using quality approved stainless steel or mild steel, our range of vacuum pans are critical parts of the tomato ketchup plants. These pans are of low head high circulation batch

type and are used for achieving uniform crystals of the product by means of efficient removal of noxious gases and condensate

61. Vegetable slicing machine

complete with ½ HP 1 HP motor and with capacity of about 500 KGs per 8 hours.

Installation, Commissioning, Demonstration, Operational Manual etc. to be Provided.

62. Water purifier

Equipped with e-boiling+, an Intelligent Purity Sensor system and Mineral Preserver system, the Hi Flo ensures that your child drinks only pure, safe water.

Features

Intelligent Purity Sensor System

This purity sensor system continuously scans the water to give 100% safe water or no water

Complete Water Purification With e-boiling+

The complete purification system with e-boiling+ destroys all known disease-causing bacteria and virus. It gives you water as pure as water boiled for 20 minutes. Plus more High Flow Rate

High flow rate of 3 litres per minute. More water in less time. (Water flow rate depends on input water pressure)

Mineral Preserver System

Electronic impulses are produced to prevent scaling of the quartz tube, thereby ensuring that precious minerals and nutrients are retained in the water

Technical Specifications

Dimensions : 307 x 103 x 355 mm

Net Weight : 4.95 kg
 UltraViolet Lamp : 16 Watts
 Power Rating : 35 Watts
 Input Voltage : 230V AC / 50 Hz
 Water Pressure : 0.4 kg/sq. cm min.
 2.0 kg/sq. cm max.
 Water Flow Rate** : 3 litres/minute
 Fuse : 2 Amps (Slow blow)

63. **Wheat flour mill**

Having grinding chamber of 200 mm Diameter, Complete with hopper, feeding screw , Speed variation mechanism for feeding screws, stand, V- Belt guard, balloon & bag. The machine is suitable for automatic feeding & contact parts inside the grinding chamber are made from mild steel 2 Nos. with electric motor and main machine 5 HP electric motor and for screw feeder 0.75 HP & DOL Starter – 2 Nos. Installation, Commissioning, Demonstration, Operational Manual etc. should be Provided.

64. **Oven : 5 KW**

- v These are sturdy double walled units with outer chamber made of M.S. Sheet duly powder coated.
 - v Inner chamber made up of S.S. Sheet (SS-304 grade).
 - v Beaded heating elements are placed in ribs, at bottom and sides.
 - v Inner chamber is provided with ribs for adjusting perforated shelves to convenient height.
 - v Synthetic door gasket made of neoprene rubber is fitted to all “MAC” units instead of asbestos.
 - v Air ventilators are also provided on the sides of the unit.
 - v To work on 220/230 volts A.C.
- (A) DIGITALLY CONTROLLED: Temperature is controlled through a MICROPROCESSOR BASED PID DIGITAL TEMPERATURE INDICATOR-cum controller
- (a) 455 x 455 x 605 m.m. 125 ltrs.

65. **Flash evaporator**

Rotary Vacuum flash evaporator, Buchi Type This model of evaporator will be supplied complete with AC non – sparking geared drive unit, support stand fitted with jack arrangement on stainless steel rod for positioning glass assemble, regulator for drive unit heat control and slight speed variation , thermostatically controlled stainless steel water bath fitted on a jack double coiled glass condenser with three opening for vacuum and cooling, pear shaped evaporating flask capacity of 800 ml. receiver flask capacity of one Ltr. Fitted with a ball joint feeding tube and vapor path tube a complete working unit. The same unit can be supplied with round bottom liters capacity evaporating flask instead of 800 ml pear shape.

66. **Refrigerator**

This Refrigerator can direct cool 210 litre, two doors refrigerator with a 70 litres freezer capacity and is frost free and has clean back . It has 10 shelves and boxes, which are

adjustable. It has moisture and humidity control facility and deodoriser. It has stainless Steel door finish.

1.0 INTENT OF SPECIFICATION

These specifications are intended to cover manufacturing, testing, supply, installation, commissioning of the equipment under the package indicated in clause 2.1 below and other incidental services.

2.0 SCOPE OF WORK:

2.1 Supply

The scope of supply of the equipment package shall include installation and commissioning of each of the items mentioned under the **above** package at each of the consignees site. The scope also includes demonstration and customer training at each of the consignee sites.

2.2 The scope of work shall be deemed to include all activities which may not have been explicitly mentioned but are reasonably implied for the successful completion of the work for which these specifications are intended.

2.3 The detail technical specification for each package are given in the Annexure enclosed with this document

3.0 GENERAL REQUIREMENTS

All the Mechanical, Electrical and other measuring/Testing equipment operating in non-air conditioning environment should be suitable for working in 50° C ambient temperature and 90% relative humidity.

3.1 Bidder shall indicate site preparation details such as room dimensions, operating temperature relative humidity type and number of power sockets and any other requirements for the equipment offered. (Electronic, Electrical, Mechanical equipment)

3.2 All the equipments shall be suitably protected, coated, covered or boxed and crated to prevent damage or deterioration during transit, handling and storage at site till the time of commissioning. While packing all the materials, the limitations from the point of view of availability of railway wagon sizes, in India should be taken into account. The contractor shall be responsible for any loss or damage during transportation, handling and storage due to improper packing.

4.0 EXCLUSIONS

Following are excluded from bidders scope:

Civil Works, Air conditioning (if required) and Electric power supply

SECTION VI-A

QUALIFICATION CRITERIA
(Referred to in Clause 13.3(b) of ITB)

- The Manufacturer should be in the business of manufacturing of similar equipment for a period not less than 5 Years.

- The bidder or the manufacturer on whose behalf the authorized agent is bidding must have manufactured, tested and supplied the following minimum number of machines during the last five years (2006-2007 to 2010-2011)

S.No.	Min. number of machines manufactured, tested and supplied in each of the last 5 years
1.	4 Nos.
2.	7 Nos.
3.	2 Nos.
4.	1 No.
5.	2 Nos.
6.	12 Nos.
7.	5 Nos
8.	2 Nos
9.	2 Nos
10.	2 Nos
11.	2 Nos
12.	3 Nos.
13.	3 Nos
14.	2 Nos.
15.	2 Nos.
16.	1 No.
17.	2 Nos.
18.	2 Nos
19.	1 No.
20.	5 Nos.
21.	3 Nos.
22.	4 Nos
23.	5 Nos.
24.	2 Nos.
25.	1 No
26.	1 No.
27.	1 No.
28.	20 Nos.
29.	18 Nos.
30.	2 Nos.
31.	2 Nos.
32.	5 Nos.
33.	2 Nos.
34.	11 Nos.
35.	7 Nos.
36.	12 Nos.
37.	2 Nos.
38.	1 No.
39.	2 Nos.
40.	2 Nos.
41.	4 Nos.
42.	2 Nos.
43.	1 No.
44.	1 No.
45.	1 No.
46.	4 Nos.
47.	2 Nos.
48.	5 Nos.
49.	1 No
50.	3 Nos.
51.	4 Nos.

52.	3 Nos.
53.	1 No.
54.	4 Nos
55.	3Nos .
56.	10 Nos.
57.	5 Nos.
58.	4 Nos.
59.	4 Nos.
60.	3 Nos.
61.	4 Nos.
62.	3 Nos.
63.	2 Nos.
64.	2 Nos.
65.	2 Nos.
66.	5 Nos.

The Manufacturer / Bidder should furnish the information on past supplies and satisfactory performance in the Performa given under Section XI. The satisfactory operation must be for at least 1 months on the date of bid opening.

- The Bidder should furnish data to support that he has the financial capacity to perform the contract, for this the bidder should have the min turnover as indicated below in any of the last five years (2006-2007 to 2010-2011)

- The bidders quoting as authorized representatives/ agent of manufacturers meeting with the above requirements in full can be considered only if the bidder as authorized. Representative has supplied, installed and commissioned satisfactorily at least half of the equipment being procured in any one of the last five years (2005-2006 to 2009-2010)

Notwithstanding any thing stated above, the purchaser reserves the right to asses the bidder's capacity and capability to perform the contract should circumstances warrant such an assessment in the overall interest of the purchaser deciding on award.

S.No.	Minimum Turnover (Indian Rs.)
1.	1.5 Lakhs
2.	22 Lakhs
3.	1 Lakhs
4.	1 Lakhs
5.	4 Lakhs
6.	2.5 Lakhs
7.	3.5 Lakhs
8.	1 Lakhs
9.	1 Lakhs
10.	1 Lakhs
11.	1 Lakhs
12.	3 Lakhs
13.	3 Lakhs
14.	5 Lakhs
15.	1 Lakhs
16.	1 Lakhs
17.	1Lakhs
18.	1 Lakh
19.	1 Lakhs
20.	2 Lakhs
21.	1.5 Lakhs
22.	2 Lakh
23.	5 Lakh
24.	1.5 Lakh
25.	1 Lakh
26.	1 Lakh
27.	1 Lakh
28.	7 Lakhs
29.	2.5 Lakhs
30.	1 Lakh
31.	1 Lakh
32.	1 Lakh
33.	6 Lakhs
34.	8 Lakhs
35.	4 Lakhs
36.	7 Lakhs
37.	1 Lakh
38.	1 Lakh
39.	4 Lakhs
40.	2 Lakhs
41.	3 Lakhs
42.	40 Lakhs
43.	1.5 Lakhs
44.	1 Lakh
45.	1.5 Lakhs
46.	1 Lakh
47.	2 Lakhs
48.	3 Lakh
49.	1 Lakh
50.	1 Lakh
51.	3 Lakhs
52.	5 Lakhs
53.	1 Lakh

54.	1 Lakh
55.	1 Lakh
56.	2 Lakhs
57.	2.5 Lakhs
58.	2 Lakhs
59.	2 Lakhs
60.	1 Lakh
61.	2 Lakhs
62.	1 Lakh
63.	2 Lakhs
64.	2 Lakhs
65.	1.5 Lakhs
66.	1.5 Lakhs

SECTION VII: BID FORM AND PRICE SCHEDULE

SECTION VII: BID FORM

To

Date :.....
 Credit No :.....
 IFB No :.....

State Project Director
 (VTIP) cum Commissioner of
 Technical Education & Industrial
 Training, Punjab, Takniki Sikhia
 Bhawan, (I.T.Wing), Room No 304, 3rd
 Floor, Plot No 1-A, Sector-36
 A, Chandigarh-160036

Gentlemen and/or Ladies :

Having examined the Bidding Documents including Addenda Nos..... [insert numbers], the receipt of which is hereby duly acknowledged, we, the undersigned, offer to supply and deliver..... (Description of Goods and Services) in conformity with the said bidding documents for the sum of (Total bid amount in words and figures) or such other sums as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this bid.

We undertake, if our bid is accepted, to deliver the goods in accordance with the delivery schedule specified in the Schedule of Requirements.

If our bid is accepted, we will obtain the guarantee of a bank in a sum equivalent to percent of the Contract Price for the due performance of the Contract, in the form prescribed by the Purchaser.

We agree to abide by this bid for the Bid validity period specified in Clause 16.1 of the Bid Data Sheet and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Commissions or gratuities, if any, paid or to be paid by us to agents relating to this Bid, and to contract execution if we are awarded the contract, are listed below :

Amount	Rupees	
Name and address of agent		Purpose of Commission or gratuity

(if none, state "none").

Until a formal contract is prepared and executed, this bid, together with your written acceptance thereof and your notification of award, shall constitute a binding Contract between us.

We undertake that, in competing for (and, if the award is made to us, in executing) the above contract, we will strictly observe the laws against fraud and corruption in force in India namely "Prevention of Corruption Act 1988".

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery.

We understand that you are not bound to accept the lowest or any bid you may receive.

We clarify/confirm that we comply with the eligibility requirements as per ITB Clause 2 of the bidding documents.

Dated this day of 200

 (signature)

 (in the capacity of)

Duly authorized to sign Bid for and on behalf of _____

PRICE SCHEDULE

PRICE SCHEDULE

1	2	3	4	5					6	7	8
<u>Schedule No.</u>	<u>Item Description</u>	<u>Country of origin</u>	<u>Quantity & Unit</u>	Price for each unit					<u>Unit price</u>	<u>Total price</u>	<u>Sales and other taxes payable if contract is awarded</u>
				Ex-factory/ Ex-warehouse/ Ex-showroom/ Off-the-shelf	Excise duty, if any	Packing & forwarding	Inland transportation, insurance and other local costs incidental to delivery	Incidental services as listed in Clause 8 of SCC			
				a	b	c	d	e	a+b+c+d+e	4 X 6	

SECTION VIII: BID SECURITY FORM

SECTION VIII: BID SECURITY FORM

Whereas¹ (*hereinafter called "the Bidder"*) has submitted its bid dated (*date of submission of bid*) for the supply of (*name and/or description of the goods*) (*hereinafter called "the Bid"*).

KNOW ALL PEOPLE by these presents that WE (*name of bank*) of (*name of country*), having our registered office at (*address of bank*) (*hereinafter called "the Bank"*), are bound unto (*name of Purchaser*) (*hereinafter called "the Purchaser"*) in the sum of _____ for which payment well and truly to be made to the said Purchaser, the Bank binds itself, its 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 the Bidder
 - (a) withdraws its Bid during the period of bid validity specified by the Bidder on the Bid Form; or
 - (b) does not accept the correction of errors in accordance with the ITB; or
2. If the Bidder, having been notified of the acceptance of its bid by the Purchaser during the period of bid validity:
 - (a) fails or refuses to execute the Contract Form if required; or
 - (b) fails or refuses to furnish the performance security, in accordance with the Instruction to Bidders;

we undertake to pay the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it, owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including forty five (45) days after the period of the bid validity, and any demand in respect thereof should reach the Bank not later than the above date.

.....
(Signature of the Bank)

Note: The bank guarantee [submitted by Indian Bidder] should be executed on stamp paper in accordance with stamp Act. The stamp paper should be in the name of executing bank.

¹ *Name of Bidder*

SECTION IX: CONTRACT FORM

SECTION IX: CONTRACT FORM

THIS AGREEMENT made theday of....., 20... Between (*Name of purchaser*) of (*Country of Purchaser*) (hereinafter called "the Purchaser") of the one part and (*Name of Supplier*) of (*City and Country of Supplier*) (hereinafter called "the Supplier") of the other part :

WHEREAS the Purchaser is desirous that certain Goods and ancillary services viz., (*Brief Description of Goods and Services*) and has accepted a bid by the Supplier for the supply of those goods and services in the sum of (*Contract Price in Words and Figures*) (hereinafter called "the Contract Price").

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz.:
 - (a) the Bid Form and the Price Schedule submitted by the Bidder;
 - (b) the Schedule of Requirements;
 - (c) the Technical Specifications;
 - (d) the General Conditions of Contract;
 - (e) the Special Conditions of Contract; and
 - (f) the Purchaser's Notification of Award.
3. In consideration of the payments to be made by the Purchaser to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Purchaser to provide the goods and services and to remedy defects therein in conformity in all respects with the provisions of the Contract.
4. The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the goods and services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

Brief particulars of the goods and services which shall be supplied/provided by the Supplier are as under:

SL. NO.	BRIEF DESCRIPTION OF GOODS & SERVICES	QUANTITY TO BE SUPPLIED	UNIT PRICE	Total Price	DELIVERY TERMS

TOTAL VALUE:

DELIVERY SCHEDULE:

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with their respective laws the day and year first above written.

Signed, Sealed and Delivered by the

said (For the Purchaser)

in the presence of:.....

Signed, Sealed and Delivered by the

said (For the Supplier)

in the presence of:.....

Note: The bank guarantee [submitted by Indian Bidder] should be executed on stamp paper in accordance with stamp Act. The stamp paper should be in the name of executing bank.

SECTION X: PERFORMANCE SECURITY FORM

SECTION X. PERFORMANCE SECURITY FORM

To

State Project Director
(VTIP) cum Commissioner of
Technical Education & Industrial
Training, Punjab, Takniki Sikhia
Bhawan, (I.T.Wing), Room No 304, 3rd
Floor, Plot No 1-A, Sector-36
A, Chandigarh-160036

WHEREAS (Name of Supplier)
hereinafter called "the Supplier" has undertaken , in pursuance of Contract (Notification of Award) No.....
dated,..... 20... to supply.....(Description of Goods and Services)
hereinafter called "the Contract".

AND WHEREAS it has been stipulated by you in the said Contract that the Supplier shall furnish you with a Bank
Guarantee by a recognized bank for the sum specified therein as security for compliance with the Supplier's
performance obligations in accordance with the Contract.

AND WHEREAS we have agreed to give the Supplier a Guarantee:
THEREFORE WE hereby affirm that we are Guarantors and responsible to you, on behalf of the Supplier, up to a
total of (Amount of the Guarantee in Words and Figures) and we
undertake to pay you, upon your first written demand declaring the Supplier to be in default under the Contract and
without cavil or argument, any sum or sums within the limit of (Amount of Guarantee) as
aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until theday of.....20.....

Signature and Seal of Guarantors

.....
.....
.....

Date.....20....

Address:.....

.....
.....

**Note: The Bank Guarantee [submitted by Indian Supplier] should be executed on stamp
paper in accordance with stamp paper act. The stamp paper should be in the name of
executing bank.**

SECTION XI: PERFORMANCE STATEMENT

SECTION XI

(Please see clause 13.3 (b) (ii) of Instructions of Bidders)

Proforma for Performance Statement (for a period of last three/five years)

Bid No..... Date of Opening.....Time.....Hour.....

Name of the Firm.....

Order Placed by (full address of Purchaser)	Order No. and date	Description and quantity of ordered equipment	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 from the purchaser/ consignee
				As per contract	Actual		

SECTION XII

(Please see Clause 13.3(a) of Instructions to Bidders)

MANUFACTURERS' AUTHORIZATION FORM*

No. _____ dated

To

State Project Director
 (VTIP) cum Commissioner of
 Technical Education & Industrial
 Training, Punjab, Takniki Sikhia
 Bhawan, (I.T.Wing), Room No 304, 3rd
 Floor, Plot No 1-A, Sector-36 A,
 Chandigarh-160036

Dear Sir:

IFB No.

We _____ who are established and reputable manufacturers of _____ (*name and description of goods offered*) having factories at _____ (*address of factory*) do hereby authorize M/s _____ (*Name and address of Agent*) to submit a bid, and sign the contract with you for the goods manufactured by us against the above IFB.

No company or firm or individual other than M/s _____ are authorized to bid, and conclude the contract for the above goods manufactured by us, against this specific IFB. (*This para should be deleted in simple items where manufacturers sell the product through different stockists.*)

We hereby extend our full guarantee and warranty as per Clause 15 of the General Conditions of Contract and Clause 10 of the Special Conditions of Contract for the goods and services offered for supply by the above firm against this IFB.

Yours faithfully,

(Name)

(Name of manufacturers)

Note: This letter of authority should be on the letterhead of the manufacturer and should be signed by a person competent and having the power of attorney to legally bind the manufacturer. It should be included by the Bidder in its bid.

* Modify this format suitably in case where manufacturer's warranty and guarantee are not applicable for the items for which bids are invited.

SECTION XIV

Eligible Countries

As of May 2004

1. In accordance with Para 1.8 of the Guidelines: Procurement under IBRD Loans and IDA Credits, dated May 2004, the Bank permits firms and individuals from all countries to offer goods, works and services for Bank-finance projects. As an exception, firms of a Country or goods manufactured in a Country may be excluded .

Para 18(a)(i) as a matter of law or official regulation, 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 Works required, or

Indicate the names herein of the countries if any

Para 18(a)(ii) 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 persons or entities in that country.

Indicate the names of the countries if any

2. For the information of borrowers and bidders, at the present time firms, goods and services from the following countries are excluded from this bidding.

Notes:

1. Any questions regarding this list should be addressed to the Director, Procurement Policy and Services Group, Operational Core services Network, The World Bank

ANNEXURE XV**PROFORMA FOR EQUIPMENT AND QUALITY CONTROL EMPLOYED BY THE MANUFACTURER**

BID NO. DATE OF OPENING :

NAME OF THE BIDDER :

(Note : All details should relate to the manufacturer for the items offered for supply)

1. Name & full address of the Manufacturer
2. (a) Telephone & Fax No Office/Factory/Works
(b) Telex No. Office/Factory/Works
(c) Telegraphic address :
3. Location of the manufacturing factory.
4. Details of Industrial License, wherever required as per statutory regulations.
5. Details of important Plant & Machinery functioning in each dept. (Monographs & description pamphlets be supplied if available).
6. Details of the process of manufacture in the factory.
7. Details & stocks of raw materials held.
8. Production capacity of item(s) quoted for, with the existing Plant & Machinery
 - 8.1 Normal
 - 8.2 Maximum
9. Details of arrangement for quality control of products such as laboratory, testing equipment etc.
10. Details of staff:
 - 10.1 Details of technical supervisory staff in charge of production & quality control.
 - 10.2 Skilled labour employed.
 - 10.3 Unskilled labour employed.
 - 10.4 Maximum No. of workers (skilled & unskilled) employed on any day during the 18 months preceding the date of Tender.
11. Whether Goods are tested to any standard specification? If so, copies of original test certificates should be submitted in triplicate.
12. Are you registered with the Directorate General of Supplies and Disposals, New Delhi 110 001, India? If so, furnish full particulars of registration, period of currency etc. with a copy of the certificate of registration.

.....
Signature and seal of the Manufacturer