GLOBAL TENDER ENQUIRY DOCUMENT

FOR SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF MEDICAL EQUIPMENTS

(PANCHAKARMA, AYURVEDIC PHARMACY & QUALITY CONTROL LAB)

ON BEHALF OF

ALL INDIA INSTITUTE OF AYURVEDA (AIIA) NEW DELHI

MINISTRY OF HEALTH & FAMILY WELFARE, GOVT. OF INDIA

HSCC/PUR/AIIA/EQUIPMENT/2012-13
Dated 13/11/2013

BY



HSCC (INDIA) LTD

(A GOVERNMENT OF INDIA ENTERPRISE)

Plot No. 6-A, Block-E, Sector-1, NOIDA (U.P.) – 201 301 PHONE: 0120-2540153

FAX: 0120-2542447 URL: www.hsccltd.com

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SECTION I NOTICE INVITING TENDERS (NIT)

For Global Tender from

HSCC (INDIA) LTD

(A GOVERNMENT OF INDIA ENTERPRISE)

Plot No. 6-A, Block-E, Sector-1, NOIDA (U.P.) – 201 301

PHONE: 0120-2540153 FAX: 0120-2542447 URL: www.hsceltd.com

FOR GOVT OF INDIA MINISTRY OF HEALTH & FAMILY WELFARE

Tender Enquiry No.: HSCC/PUR/AIIA/2013 Dated 13.11.2013

NOTICE INVITING TENDERS (NIT)

(1) HSCC (India) Ltd, for and on behalf of All India Institute of Ayurveda (AIIA), Sarita Vihar, New Delhi under Govt. of India invites sealed tenders, from eligible and qualified tenderers for supply of following Medical Equipments to AIIA, Sarita Vihar, New Delhi.-

PHARMACY SECTION

S.NO	NAME OF THE EQUIPMENT/ INSTRUMENT	Qty	EMD (In Rs.)
1	Electronic Weighing Balance	1	
2	Electronic Weighing Balance	1	
3	Electronic Weighing balance	2	
4	Insect killer	6	
5	Herbal Chopping/cutting m/c	1	
6	Multifunction Vegetable Slicer/Chopper	1	
7	Pulper Machine	1	49,788.00
8	Juicer machines	1	47,700.00
9	Herbal drum washing m/c	1	
10	Hydraulic pressure trolley	1	
11	Storage container	200	
12	Storage racks	10	
13	Pallates	25	

POWDER SECTION

S.NO	NAME OF THE EQUIPMENT/ INSTRUMENT	Qty	EMD (In Rs.)
1	Herbal Disintegrator Machine	1	
2	Mini pulverizer	1	
3	Cyclone type pulverizer	1	132,800.00
4	Powder and mass mixer	1	

1

5	Automatic Herbal Cleaning, washing, Drying,Grinding, shifting,Mixing, metal detection system for powder Section	1	
6	Vibrio sifter	1	
7	Storage bins	5	
8	Material handling equipment	As req.	

TABLET SECTION

S.NO	NAME OF THE EQUIPMENT/ INSTRUMENT	NO.	EMD (In Rs.)
1	Electric Hot air Tray dryer	1	
2	Paste kettle	1	
3	Rapid mixer granulator	1	
4	Fluid bed dryer, with Trolley	1	
5	Multimill	1	
6	Octagonal blender	1	
7	Vibrio sifter	1	
8	Pills machine (Motorized)	3	85900
9	Rotary RSP 16 stn "D" Tooling	1	
10	Tablet inspection Belt	1	
11	Coating pan	1	
12	Colour tank	2	
13	Industrial stirrer	1	
15	Hand filling cap machine	1	
16	Capsule autoloader	1	

ARK EYE

S.NO	NAME OF THE EQUIPMENT/ INSTRUMENT	NO.	EMD (In Rs.)
1	Distillation assembly	1	
2	Storage vessel	2	2,100.00

SYRUP SECTION

S.NO	NAME OF THE EQUIPMENT/	Qty	EMD
	INSTRUMENT		
1	Steam operated double jacketed vessel	1	
2	CENTRIFUGAL PUMP	1	
3	Centrifuge filter (SS 316)	1	6,620.00
4	Filter press	1	
5	Storage vessel	1	

OIL SECTION

S.NO	NAME OF THE EQUIPMENT/	NO.	EMD
	INSTRUMENT		
1	Steam operated double jacketed closed	2	
	pan		
2	COOKING KETTLE - KETTLES FIXED	1	
	TYPE 1 NO. (WITH TAFLON		
	SCRAPPER ATTACHEMENT)		23,000.00
3	Centrifuge filter (SS 316)	1	
4	Filter press	1	
5	Storage vessel	4	

ASAVA

S.NO	NAME OF THE EQUIPMENT/ INSTRUMENT		EMD
			(In Rs.)
1	Wooden vats	200 liter	
	200 Litres	100 liter	
2	Storage vessel		26,200.00
3	Transfer pump		

AVLEHA

S.NO	NAME OF THE EQUIPMENT/ INSTRUMENT	NO.	EMD
1	Steam operated double jacketed closed pan	2	
2	Storage vessel/pan	2	8,000.00

OINTMENT SECTION

S.NO	NAME OF THE EQUIPMENT/ INSTRUMENT	NO.	EMD
1	Ointment / Cream Manufacturing Plant	1	
2	Planetary mixer	1	
3	Homogenizer	1	32,500.00
4	Storage vessels	2	

RASA AUSHADHI SECTION

S.NO	NAME OF THE EQUIPMENT/ INSTRUMENT	NO.	EMD
1	Stone crushing machine	1	
2	Fine pulverizing (stone) mill	1	
3	Programmed muffle furnace	1	34,900.00
4	End runner mill (granite)	2	

5	Edge runner	2
6	Ball mill	1
7	Electric Hot air Tray dryer	1
8	Steam operated double jacketed vessel	1
9	Centrifuge filter (SS 316)	1
10	Storage vessel	2

PACKING SECTION

S.NO	NAME OF THE EQUIPMENT/ INSTRUMENT	NO.	EMD
1	POUCH FILLING &	1	
	SEALING MACHINE		
2	Viscous liquid filling machine	1	
3	VACUUM FILLER	1	
4	Automatic Form Fill & seal machine.	1	
5	Automatic Form Fill & seal machine.	1	
6	Automatic Form Fill & seal machine(for liquid item)	1	
7	AUTOMATIC VOLUMETRIC LIQUID FILLING MACHINE	1	55,640.00
8	Blister packing machine	1	
9	Augar Powder filling, bottle sealing, capping, labeling machine	1	
10	Batch coding machine	1	
11	Carton strapping machine	1	
12	Carton sealing machine	1	
13	Hand Batch printing machine	1	
14	Tape Dispenser (manual)	1	

QUALITY CONTROL LAB SECTION

S.NO	NAME OF THE EQUIPMENT/ INSTRUMENT	NO.	EMD
1	DM Water Plant	1	
2	D.M. Water tank	1	5,000.00

CHEMISTRY SECTION

S.NO	NAME OF THE EQUIPMENT/ INSTRUMENT	NO.	EMD
1	Electronic Weighing Balance:-	2	
2	D T apparatus	1	
3	Friability test apparatus	1	
4	Digital ABBE's refractometer	1	
5	Digital pH, conductivity, T.D.S. meter	1	49,950.00
6	Digital IR moisture balance	1	
7	Muffle furnace (digital with temp. controller)	1	

8	Rectangular hot air oven	1	
9	Long electric hot plate with manual temp	2	
	controller	_	
10	Vaccum oven	1	
11	water bath rectangular (double walled)	3	
12	Heating mantle	1	
13	Tablet hardness tester	1	
14	KF titrator digital	1	
15	Vernier caliper digital	1	
16	Digital Micrometer	1	
17	WATER DISTILLATION APPARTUS	1	
18	Lab. Stirrer	1	
19	UV inspection Box	1	
20	Sigma balance	1	
21	Volatile oil determination apparatus	1	
22	Thermometer	01 set	
23	Water bath with stirrer	1	
24	Oil water bath with stirrer	1	
25	Hot air oven	1	
26	Hardness tester (Monsento type)	1	
27	Digital centrifugal table top machine	1	
28	Hygrometer	6	
29	Viscometer	1	
30	Digital Viscometer	1	
31	Bulk density apparatus	1	
32	Boiling point determination	1	
33	Melting point apparatus (digital type)	1	
34	Sieves 10 to 120 with sieve shaker	1	
35	Stability testing chamber (Digital display	2	
	& per G.M.P. Standard) for C.R.T.Study &		
	Accelerated Study		
36	Alcohol content determination apparatus	1	
37	Limit test apparatus	1	
38	TLC apparatus with all accessories	1 set	
39	GRINDER (Mini Grinder for laboratory)	1	
40	Fume hood	1	
41	Refrigerator	1	

INSTRUMENT SECTION (Should Quote Individual Equipment Basis)

S.NO	NAME OF THE EQUIPMENT/ INSTRUMENT	NO.	EMD
			(In Rs.)
1	UV vis spectrophotometer	1	14,000.00
2	AAS	1	80,000.00
3	HPLC	1	60,000.00
4	HPTLC	1	150,000.00
5	GCMS	1	130,000.00
6	Water purification system	1	7,000.00

PHARMACOGNOSY

S.NO	NAME OF THE EQUIPMENT/	NO.	EMD
	INSTRUMENT		(In Rs.)
1	Microtome	1	
2	Dissecting microscope	1	
3	Camera lucida prism type and mirror type	1	
4	Binocular microscope with camera	1	
5	Trinocular	1	
6	Stereo microscope	1	
7	Cryostat	1	
8	Micro Image Projection System (MIPS)	1	
9	SLR Camera	1	
10	Aluminium slide trays	1	
11	Microslide cabinet	1	
12	Chemical balance	1	40,800.00
13	Water bath (stainless steel body-6 holes)	1	10,000.00
14	Muffle furnace (Digital)	1	
15	Stage micrometer	1	
16	Ocular micrometer	1	
17	Hot air oven (Digital)	1	
18	Clavenger apparatus	1	
19	Water distillation unit	1	
20	Hot plates	1	
21	Refrigerator	1	
22	Other related silica crucible equipments,	As required	
		for setup	
		new	
		pharma	

	testing laboratory	

MICROBIOLOGY

S.NO	NAME OF THE EQUIPMENT/ INSTRUMENT	NO.	EMD
			(In Rs.)
1	Hot air oven	1	
2	Incubator (Bacteriological)	1	
3	Laminar air flow (Horizontal)	1	
4	Autoclave (Vertical)	1	
5	Balance	1	
6	Bacteriological colony counter	1	
7	BOD incubator	1	
8	Microscope	1	
9	Binocular microscope with camera	1	16,570.00
10	Refrigerator	1	
11	Heating mantle	1	
12	Vortex shaker M/c	1	
13	Zone reader (antibiotic)	1	
14	Water bath	1	
15	Magnetic stirrer		
16	pH meter	2	
17	Fogger for fumigation	1	

PANCHAKARMA

S. No.	Name of Items	EMD In (Rs)
1	DRONI (with stand)	
	a. Wooden	
	b. FRP/Fiberglass	
2	STEAM BATH SYSTEMS	
	a. Steam Bath Chamber (sitting)	
	b. Stream Bath (Lying type)	
	c. Steam Generators	
3	NADI SWEDA YANTRA	
4	SHIRODHARA SYSTEM	212,520.00
5	FULLY AUTOMATIC SHIRDHARA MACHINE (High export quality model)	
6	SARVANGA-DHARA/ PIZHICHIL YANTRA	
7	AWAGAHA TUB	
8	HIP BATH	
9	SPINE BATH	
10	VAMAN PEETH	

11	VIRECHAN PEETH	
12	NASYA PEETH	
13	MATRA VASTI/TAILA VASTI YANTRA	
14	SHIRO VASTI	
15	KSHARA SUTRA Cabinet	
16	TAP SWEDAN YANTRA (Lying type)	

(2) Tender No.: HSCC/PUR/AIIA/2013

Sl. No.	Description	Schedule
i.	Dates of sale of tender enquiry documents	13.11.2013 to 12.12.2013, 10:00 hrs to 16:30 hrs IST
ii.	Place of sale of Tender Enquiry Documents	HSCC (India) Ltd, Plot No. 6-A, Block-E, Sector-1, Noida (U.P)-201301
iii.	Cost of the Tender Enquiry Document	INR 5, 000/-
iv.	Pre Tender Meeting Date & Time	26.11.2013 , 11:00 hrs IST
v.	Pre Tender Meeting Venue	Same as 2 (ii)
vi.	Closing date & time for receipt of Tender	12.12.2013 , 14:30 hrs IST
vii.	Time and date of opening of Techno – Commercial tenders	12.12.2013 , 15:00 hrs IST
viii	Venue of Opening of Techno Commercial Tender	Same as 2 (ii)

- 3. Interested tenderers may obtain further information about this requirement from the above office selling the documents. Tender Enquiry Documents may be purchased on payment of non-refundable fee of INR 5,000/- per set in the form of account payee Demand Draft/Pay Order/Cashier's Cheque/Banker's Cheque, drawn on a scheduled Bank in India, in favour of "HSCC (India) Ltd" payable at New Delhi/ Noida.
- 4. If requested, the Tender Enquiry Documents will be mailed by Registered Post/Speed Post to the domestic tenderers and by international airmail to the foreign tenderers, for which extra expenditure per set will be INR 100/- for domestic post and INR 500/- for international airmail. The tenderer is to add the applicable postage cost in the non-refundable fee mentioned in Para 3 above.
- 5. Tenderer may also download the tender enquiry documents from the web site http://eprocure.gov.in/cppp, www.hsccltd.com, www.indianmedicine.nic.in and submit its tender by utilizing the downloaded document, along with the required non-refundable fee as mentioned in Para 3 above.
- 6. All prospective tenderers may attend the Pre Tender meeting. The venue, date and time indicated in the Para 2 above.
- 7. Tenderers shall ensure that their tenders, complete in all respects, are dropped in the Tender Box located at **HSCC** (**India**) **Ltd**, **Plot No. 6-A**, **Block-E**, **Sector-1**, **NOIDA** (**U.P.**) **201 301** on or before the closing date and time indicated in the Para 2 above, failing which the tenders will be treated as late and rejected.

- 8. In the event of any of the above mentioned dates being declared as a holiday / closed day for the purchase organisation, the tenders will be sold/received/opened on the next working day at the appointed time.
- 9. The Tender Enquiry Documents are not transferable.
- 10. Bidders are requested to quote for all the items under sections viz. Pharmacy Section, Powder Section, Tablet Section, Ark / Eye Section, Syrup Section, Oil Section, Asava Section, Avleha Section, Ointment Section, Rasa Aushadhi Section, Packing Section, Quality Control Lab Section, Chemistry Section, Pharmacognosy Section, Microbiology Section & Panchakarma Section. Bids will be evaluated on Package basis / Section wise basis. But equipment under Instrumentation Section are to be quoted on individual equipment basis and their evaluation will be done accordingly. All bidders must quote accordingly, otherwise bid will be summarily rejected.

CGM (Proc. - F&A) HSCC (India) Ltd, Plot No. 6-A, Block-E, Sector-1, NOIDA (U.P.) – 201 301

SECTION - II

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GENERAL INSTRUCTIONS TO TENDERERS (GIT)

A. PREAMBLE

1. Definitions and Abbreviations

1.1 The following definitions and abbreviations, which have been used in these documents shall have the meanings as indicated below:

1.2. Definitions:

- (i) "Purchaser" means Director, AIIA, Sarita Vihar, New Delhi
- (ii) "Tender" means Bids / Quotation / Tender received from a Firm / Tenderer / Bidder.
- (iii) "Tenderer" means Bidder/ the Individual or Firm submitting Bids / Quotation / Tender
- (iv) "Supplier" means the individual or the firm supplying the goods and services as incorporated in the contract.
- (v) "Goods" means the articles, material, commodities, livestock, furniture, fixtures, raw material, spares, instruments, machinery, equipment, medical equipment, industrial plant etc. which the supplier is required to supply to the purchaser under the contract.
- (vi) "Services" means services allied and incidental to the supply of goods, such as transportation, installation, commissioning, provision of technical assistance, training, after sales service, maintenance service and other such obligations of the supplier covered under the contract.
- (vii) "Earnest Money Deposit" (EMD) means Bid Security/ monetary or financial guarantee to be furnished by a tenderer along with its tender.
- (viii) "Contract" means the written agreement entered into between the purchaser and/or consignee and the supplier, together with all the documents mentioned therein and including all attachments, annexure etc. therein.
- (ix) "Performance Security" means monetary or financial guarantee to be furnished by the successful tenderer for due performance of the contract placed on it. Performance Security is also known as Security Deposit.
- (x) "Consignee" means the Director, AIIA, Sarita Vihar, New delhi person to whom the goods are required to be delivered as specified in the Contract. If the goods are required to be delivered to a person as an interim consignee for the purpose of despatch to another person as provided in the Contract then that "another" person is the consignee, also known as ultimate consignee.
- (xi) g"Specification" means the document/standard that prescribes the requirement with which goods or service has to conform.
- (xii) "Inspection" means activities such as measuring, examining, testing, gauging one or more characteristics of the product or service and comparing the same with the specified requirement to determine conformity.
- (xiii) "Day" means calendar day.

1.3 Abbreviations:

- (i) "TE Document" means Tender Enquiry Document
- (ii) "NIT" means Notice Inviting Tenders.
- (iii) "GIT" means General Instructions to Tenderers
- (iv) "SIT" means Special Instructions to Tenderers
- (v) "GCC" means General Conditions of Contract
- (vi) "SCC" means Special Conditions of Contract

- (vii) "DGS&D" means Directorate General of Supplies and Disposals
- (viii) "NSIC" means National Small Industries Corporation
- (ix) "PSU" means Public Sector Undertaking
- (x) "CPSU" means Central Public Sector Undertaking
- (xi) "LSI" means Large Scale Industry
- (xii) "SSI" means Small Scale Industry
- (xiii) "LC" means Letter of Credit
- (xiv) "DP" means Delivery Period
- (xv) "BG" means Bank Guarantee
- (xvi) "ED" means Excise Duty
- (xvii) "CD" means Custom Duty
- (xviii) "VAT" means Value Added Tax
- (xix) "CENVAT" means Central Value Added Tax
- (xx) "CST" means Central Sales Tax
- (xxi) "RR" means Railway Receipt
- (xxii) "BL" means Bill of Lading
- (xxiii) "FOB" means Free on Board
- (xxiv) "FCA" means Free Carrier
- (xxv) "FOR" means Free On Rail
- (xxvi) "CIF" means Cost, Insurance and Freight
- "CIP (Destinations)" means Carriage and Insurance Paid up to named port of destination. Additionally the Insurance (local transportation and storage) would be extended and borne by the Supplier from ware house to the consignee site for a period including 3 months beyond date of delivery.
- (xxviii) "DDP" means Delivery Duty Paid named place of destination (consignee site)
- (xxix) "INCOTERMS" means International Commercial Terms as on the date of Tender Opening
- (xxx) "MOH&FW" means Ministry of Health & Family Welfare, Government of India
- (xxxi) "Dte. GHS" means Directorate General and Health Services, MOH&FW.
- (xxxii) "CMC" means Comprehensive maintenance Contract (labour, spare and preventive maintenance)
- (xxxiii) "RT" means Re-Tender.

2. Introduction

- 2.1 The Purchaser has issued these TE documents for purchase of goods and related services as mentioned in Section VI "List of Requirements", which also indicates, *interalia*, the required delivery schedule, terms and place of delivery.
- 2.2 This section (Section II "General Instruction Tenderers") provides the relevant information as well as instructions to assist the prospective tenderers in preparation and submission of tenders. It also includes the mode and procedure to be adopted by the purchaser for receipt and opening as well as scrutiny and evaluation of tenders and subsequent placement of contract.
- 2.3 The tenderers shall also read the Special Instructions to Tenderers (SIT) related to this purchase, as contained in Section III of these documents and follow the same accordingly. Whenever there is a conflict between the GIT and the SIT, the provisions contained in the SIT shall prevail over those in the GIT.
- 2.4 Before formulating the tender and submitting the same to the purchaser, the tenderer should read and examine all the terms, conditions, instructions, checklist etc. contained in the TE documents. Failure to provide and/or comply with the required information, instructions etc. incorporated in these TE documents may result in rejection of its tender.

3. Availability of Funds

3.1 Expenditure to be incurred for the proposed purchase will be met from the funds available with the purchaser/consignee.

4. Language of Tender

- 4.1 The tender submitted by the tenderer and all subsequent correspondence and documents relating to the tender exchanged between the tenderer and the purchaser, shall be written in the English language, unless otherwise specified in the Tender Enquiry. However, the language of any printed literature furnished by the tenderer in connection with its tender may be written in any other language provided the same is accompanied by an English translation and, for purposes of interpretation of the tender, the English translation shall prevail.
- 4.2 The tender submitted by the tenderer and all subsequent correspondence and documents relating to the tender exchanged between the tenderer and the purchaser, may also be written in the Hindi language, provided that the same are accompanied by English translation, in which case, for purpose of interpretation of the tender etc, the English translations shall prevail.

5. Eligible Tenderers

5.1 This invitation for tenders is open to all suppliers who fulfil the eligibility criteria specified in these documents.

6. Eligible Goods and Services

6.1 All goods and related services to be supplied under the contract shall have their origin in India or any other country with which India has not banned trade relations. The term "origin" used in this clause means the place where the goods are mined, grown, produced, or manufactured or from where the related services are arranged and supplied.

7. Tendering Expense

7.1 The tenderer shall bear all costs and expenditure incurred and/or to be incurred by it in connection with its tender including preparation, mailing and submission of its tender and for subsequent processing the same. The purchaser will, in no case be responsible or liable for any such cost, expenditure etc regardless of the conduct or outcome of the tendering process.

B. TENDER ENQUIRY DOCUMENTS

8. Content of Tender Enquiry Documents

- 8.1 In addition to Section I "Notice inviting Tender" (NIT), the TE documents include:
 - ➤ Section II General Instructions to Tenderers (GIT)
 - ➤ Section III Special Instructions to Tenderers (SIT)
 - ➤ Section IV General Conditions of Contract (GCC)
 - ➤ Section V Special Conditions of Contract (SCC)
 - ➤ Section VI List of Requirements
 - Section VII Technical Specifications
 - ➤ Section VIII Quality Control Requirements
 - Section IX Qualification Criteria
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 - ➤ Section XIII Bank Guarantee Form for EMD
 - ➤ Section XIV Manufacturer's Authorisation Form
 - ➤ Section XV Bank Guarantee Form for Performance Security/CMC Security
 - ➤ Section XVI Contract Forms A & B

- ➤ Section XVII Proforma of Consignee Receipt Certificate
- ➤ Section XVIII Proforma of Final Acceptance Certificate by the consignee
- Section XIX Instructions from Ministry of Shipping/ Surface Transport (Annexure 1 & 2)
- ➤ Section XX Check List for the Tenderers
- ➤ Section XXI Consignee List
- 8.2 The relevant details of the required goods and services, the terms, conditions and procedure for tendering, tender evaluation, placement of contract, the applicable contract terms and, also, the standard formats to be used for this purpose are incorporated in the abovementioned documents. The interested tenderers are expected to examine all such details etc to proceed further.

9. Amendments to TE documents

- 9.1 At any time prior to the deadline for submission of tenders, the purchaser may, for any reason deemed fit by it, modify the TE documents by issuing suitable amendment(s) to it.
- 9.2 Such an amendment will be notified in writing by registered/speed post or by fax/telex/email, followed by copy of the same by registered post to all prospective tenderers, which have received the TE documents and will be binding on them.
- 9.3 In order to provide reasonable time to the prospective tenderers to take necessary action in preparing their tenders as per the amendment, the purchaser may, at its discretion extend the deadline for the submission of tenders and other allied time frames, which are linked with that deadline.
- 10. Clarification of TE documents
- 10.1 A tenderer requiring any clarification or elucidation on any issue of the TE documents may take up the same with the purchaser in writing. The purchaser will respond in writing to such request provided the same is received by the purchaser not later than fifteen days (unless otherwise specified in the SIT) prior to the prescribed date of submission of tender.

C. PREPARATION OF TENDERS

11. Documents Comprising the Tender

11.1 The **Two Tender System**, i.e. "Techno – Commercial Tender" and "Price Tender" prepared by the tenderer shall comprise the following:

A) <u>Techno – Commercial Tender (Un priced Tender)</u>

- i) Earnest money furnished in accordance with GIT clause 19.1 alternatively, documentary evidence as per GIT clause 19.2 for claiming exemption from payment of earnest money.
- ii) Tender Form as per Section X (without indicating any prices).
- iii) Documentary evidence, as necessary in terms of clauses 5 and 17 establishing that the tenderer is eligible to submit the tender and, also, qualified to perform the contract if its tender is accepted.
- iv) Tenderer/Agent who quotes for goods manufactured by other manufacturer shall furnish Manufacturer's Authorisation Form.
- v) Power of Attorney in favour of signatory of TE documents and signatory of Manufacturer's Authorisation Form.
- vi) Documents and relevant details to establish in accordance with GIT clause 18 that the goods and the allied services to be supplied by the tenderer conform to the requirement of the TE documents.
- vii) Performance Statement as per section IX along with relevant copies of orders and end users' satisfaction certificate.

- viii) Price Schedule(s) as per Section XI filled up with all the details including Make, Model etc. of the goods offered with prices blank (without indicating any prices).
- ix) Certificate of Incorporation in the country of origin.
- x) Checklist as per Section XX.

B) <u>Price Tender:</u>

The information given at clause no. 11.1 A) ii) & viii) above should be reproduced with the prices indicated. In case of tenderer quoting for more than 1 (one) item, the prices for the quoted items should be submitted in separate sealed covers.

NOTE:

- 1. All pages of the Tender should be page numbered and indexed.
- 2. It is the responsibility of tenderer to go through the TE document to ensure furnishing all required documents in addition to above, if any.
- 11.2 The authorized signatory of the tenderer must sign the tender duly stamped at appropriate places and initial all the remaining pages of the tender. Individuals signing the tender or other documents connected with a contract must specify whether he signs as:
 - i. A 'Sole Proprietor' of the firm or constituted attorney of such Sole Proprietor.
 - ii. A partner of the firm, if it be a partnership, in which case he must have authority to quote & to refer to arbitration dispute concerning the business of the partnership either by virtue of the partnership agreement or a power of attorney;
 - iii. Constituted attorney of the firm if it is a company.

NOTE:

- 1. In case of (ii) above, a copy of the partnership agreement or general power of attorney, in either, case, attested by a Notary Public should be furnished, or affidavit on stamped paper of all the partners admitting execution of the partnership agreement or the general power of attorney should be furnished.
- 2. In case of the Partnership firms, where no authority to refer disputes concerning the business of the partnership has been conferred on any partner, the tender and all other related documents must be signed by every partner of the firm.
- 3. A person signing the tender form or any documents forming part of the contract on behalf of another shall be deemed to warrantee that he has authority to bind such other persons and if, on enquiry, it appears that the persons so signing had no authority to do so, the purchaser may, without prejudice to other civil and criminal remedies, cancel the contract and hold the signatory liable for all cost and damages.
- 11.3 A tender, which does not fulfil any of the above requirements and/or gives evasive information/reply against any such requirement, shall be liable to be ignored and rejected.
- 11.4 Tender sent by fax/telex/cable/electronically shall be ignored.

12. Tender currencies

- 12.1 The tenderer supplying indigenous goods or already imported goods shall quote only in Indian Rupees.
- 12.2 For imported goods if supplied directly from abroad, prices shall be quoted in any freely convertible currency say US Dollar, Euro, GBP or Yen. As regards price(s) for allied services, if any required with the goods, the same shall be quoted in Indian Rupees only if such services are to be performed /undertaken in India. Commission for Indian Agent, if any and if payable shall be indicated in the space provided for in the price schedule and will be payable in Indian Rupees only.
- 12.3 Tenders, where prices are quoted in any other way shall be treated as non -responsive and rejected.

13 Tender Prices

- 13.1 The Tenderer shall indicate on the Price Schedule provided under Section XI all the specified components of prices shown therein including the unit prices and total tender prices of the goods and services it proposes to supply against the requirement. All the columns shown in the price schedule should be filled up as required. If any column does not apply to a tenderer, same should be clarified as "NA" by the tenderer.
- 13.2 If there is more than one schedule in the List of Requirements, the tenderer has the option to submit its quotation for any one or more schedules and, also, to offer special discount for combined schedules. However, while quoting for a schedule, the tenderer shall quote for the complete requirement of goods and services as specified in that particular schedule.
- 13.3 The quoted prices for goods offered from within India and that for goods offered from abroad are to be indicated separately in the applicable Price Schedules attached under Section XI.
- 13.4 While filling up the columns of the Price Schedule, the following aspects should be noted for compliance:
- 13.4.1 For domestic goods or goods of foreign origin located within India, the prices in the corresponding price schedule shall be entered separately in the following manner:
 - a) the price of the goods, quoted ex-factory/ ex-showroom/ ex-warehouse/ off-the-shelf, as applicable, including all taxes and duties like sales tax, CST VAT, CENVAT, Custom Duty, Excise Duty etc. already paid or payable on the components and raw material used in the manufacture or assembly of the goods quoted ex-factory etc. or on the previously imported goods of foreign origin quoted ex-showroom etc;
 - b) any sales or other taxes and any duties including excise duty, which will be payable on the goods in India if the contract is awarded;
 - c) charges towards Packing & Forwarding, Inland Transportation, Insurance (local transportation and storage) would be borne by the Supplier from ware house to the consignee site for a period including 3 months beyond date of delivery, Loading/Unloading and other local costs incidental to delivery of the goods to their final destination as specified in the List of Requirements and Price Schedule;
 - d) the price of Incidental Services, as mentioned in List of Requirements and Price Schedule;
 - e) the prices of Turnkey (if any), as mentioned in List of Requirements, Technical Specification and Price Schedule; and
 - f) the price of annual CMC, as mentioned in List of Requirements, Technical Specification and Price Schedule.
- 13.4.2 For goods offered from abroad, the prices in the corresponding price schedule shall be entered separately in the following manner:
 - a) The price of goods quoted FOB/FCA port of shipment, as indicated in the List of Requirements and Price Schedule;
 - b) The amount of freight and insurance.
 - c) the price of goods quoted CIP (name port of destination) in India as indicated in the List of Requirements, Price Schedule and Consignee List;
 - d) Wherever applicable, the amount of custom duty with CDED applicable on CIP value on the goods to be imported; AIIA will issue Custom Duty Exemption Certificate (CDEC) where applicable.
 - e) the charges for Insurance (local transportation and storage) would be extended and borne by the Supplier from ware house to the consignee site for a period including 3 months beyond date of delivery. Other local costs and Incidental costs, as specified in the List of Requirements and Price Schedule;
 - f) the charges for Incidental Services, as in the List of Requirements and Price Schedule;
 - g) the prices of Turnkey (if any), as mentioned in List of Requirements, Technical Specification and Price Schedule; and

- h) the price of annual CMC, as mentioned in List of Requirements, Technical Specification and Price Schedule.
- 13.5 Additional information and instruction on Duties and Taxes:
- 13.5.1 If the Tenderer desires to ask for excise duty, sales tax/ VAT, Service Tax, Works Contract Tax etc. to be paid extra, the same must be specifically stated. In the absence of any such stipulation the price will be taken inclusive of such duties and taxes and no claim for the same will be entertained later.

13.5.2 Excise Duty:

- a) If reimbursement of excise duty is intended as extra over the quoted prices, the supplier must specifically say so also indicating the rate, quantum and nature of the duty applicable. In the absence of any such stipulation it will be presumed that the prices quoted are firm and final and no claim on account of excise duty will be entertained after the opening of tenders.
- b) If a Tenderer chooses to quote a price inclusive of excise duty and also desires to be reimbursed for variation, if any, in the excise duty during the time of supply, the tenderer must clearly mention the same and also indicate the rate and quantum of excise duty included in its price. Failure to indicate all such details in clear terms may result in rejection of that tender.
- c) Subject to sub clauses 13.5.2 (a) & (b) above, any change in excise duty upward/downward as a result of any statutory variation in excise duty taking place within contract terms shall be allowed to the extent of actual quantum of excise duty paid by the supplier. In case of downward revision in excise duty, the actual quantum of reduction of excise duty shall be reimbursed to the purchaser by the supplier. All such adjustments shall include all reliefs, exemptions, rebates, concession etc. if any obtained by the supplier.

13.5.3 Sales Tax:

If a tenderer asks for sales tax/ VAT, Service Tax and Works Contract Tax to be paid extra, the rate and nature of sales tax applicable should be shown separately. The sales tax / VAT, Service Tax and Works Contract Tax will be paid as per the rate at which it is liable to be assessed or has actually been assessed provided the transaction of sale is legally liable to sales tax / VAT, Service Tax and Works Contract Tax and is payable as per the terms of the contract. If any refund of Tax is received at a later date, the Supplier must return the amount forth-with to the purchaser.

13.5.4 Octroi Duty and Local Duties & Taxes:

Normally, goods to be supplied to government departments against government contracts are exempted from levy of town duty, Octroi duty, terminal tax and other levies of local bodies. However, on some occasions, the local bodies (like town body, municipal body etc.) as per their regulations allow such exemptions only on production of certificate to this effect from the concerned government department. Keeping this in view, the supplier shall ensure that the stores to be supplied by the supplier against the contract placed by the purchaser are exempted from levy of any such duty or tax and, wherever necessary, obtain the exemption certificate from the purchaser.

However, if a local body still insists upon payment of such local duties and taxes, the same should be paid by the supplier to the local body to avoid delay in supplies and possible demurrage charges and obtain a receipt for the same. The supplier should forward the receipt obtained for such payment to the purchaser to enable the purchaser reimburse the supplier and take other necessary action in the matter.

13.5.5 Customs Duty:

The Purchaser will pay the Customs duty wherever applicable.

- 13.6 For transportation of imported goods offered from abroad, relevant instructions as incorporated under GCC Clause 10 shall be followed.
- 13.7 For insurance of goods to be supplied, relevant instructions as provided under GCC Clause 11 shall be followed.
- 13.8 Unless otherwise specifically indicated in this TE document, the terms FCA, FOB, FAS, CIF, CIP, DDP etc. for imported goods offered from abroad, shall be governed by the rules & regulations prescribed in the current edition of INCOTERMS, published by the International Chamber of Commerce, Paris
- 13.9 The need for indication of all such price components by the tenderers, as required in this clause (viz., GIT clause 13) is for the purpose of comparison of the tenders by the purchaser and will no way restrict the purchaser's right to award the contract on the selected tenderer on any of the terms offered.

14. Indian Agent

- 14.1 If a foreign tenderer has engaged an agent in India in connection with its tender, the foreign tenderer, in addition to indicating Indian agent's commission, if any, in a manner described under GIT sub clause 12.2 above, shall also furnish the following information:
 - a) The complete name and address of the Indian Agent and its permanent income tax account number as allotted by the Indian Income Tax authority.
 - b) The details of the services to be rendered by the agent for the subject requirement.
 - c) Details of Service outlets in India, nearest to the consignee(s), to render services during Warranty and CMC period.
 - d) A copy of agreement between the Agent & their principal detailing the terms & conditions as well as services and after sales services as above to be retendered by thr agent and the precise relationship between them and their mutual interest in the business.
 - e) Principal / manufacturer's original proforma invoice with the price bid.

15. Firm Price

- 15.1 Unless otherwise specified in the SIT, prices quoted by the tenderer shall remain firm and fixed during the currency of the contract and not subject to variation on any account.
- 15.2 However, as regards taxes and duties, if any, chargeable on the goods and payable, the conditions stipulated in GIT clause 13 will apply.

16. Alternative Tenders

- 16.1 Alternative Tenders are not permitted.
- 16.2 However the Tenderers can quote alternate models meeting the tender specifications of same manufacturer with single EMD.
- 16.3 Only one tenderer is permitted to quote for the same manufacturer irrespective of models.

17 Documents Establishing Tenderer's Eligibility and Qualifications

17.1 Pursuant to GIT clause 11, the tenderer shall furnish, as part of its tender, relevant details and documents establishing its eligibility to quote and its qualifications to perform the contract if its tender is accepted.

- 17.2 The documentary evidence needed to establish the tenderer's qualifications shall fulfil the following requirements:
 - a) in case the tenderer offers to supply goods, which are manufactured by some other firm, the tenderer has been duly authorised by the goods manufacturer to quote for and supply the goods to the purchaser. The tenderer shall submit the manufacturer's authorization letter to this effect as per the standard form provided under Section XIV in this document.
 - b) the tenderer has the required financial, technical and production capability necessary to perform the contract and, further, it meets the qualification criteria incorporated in the Section IX in these documents.
 - c) in case the tenderer is not doing business in India, it is duly represented by an agent stationed in India fully equipped and able to carry out the required contractual functions and duties of the supplier including after sale service, maintenance & repair etc. of the goods in question, stocking of spare parts and fast moving components and other obligations, if any, specified in the conditions of contract and/or technical specifications.

18. Documents establishing Good's Conformity to TE document.

- 18.1 The tenderer shall provide in its tender the required as well as the relevant documents like technical data, literature, drawings etc. to establish that the goods and services offered in the tender fully conform to the goods and services specified by the purchaser in the TE documents. For this purpose the tenderer shall also provide a clause-by-clause commentary on the technical specifications and other technical details incorporated by the purchaser in the TE documents to establish technical responsiveness of the goods and services offered in its tender.
- 18.2 In case there is any variation and/or deviation between the goods & services prescribed by the purchaser and that offered by the tenderer, the tenderer shall list out the same in a chart form without ambiguity and provide the same along with its tender.
- 18.3 If a tenderer furnishes wrong and/or misguiding data, statement(s) etc. about technical acceptability of the goods and services offered by it, its tender will be liable to be ignored and rejected in addition to other remedies available to the purchaser in this regard.

19. Earnest Money Deposit (EMD)

- 19.1 Pursuant to GIT clauses 8.1 and 11.1(d) the tenderer shall furnish along with its tender, earnest money for amount as shown in the List of Requirements. The earnest money is required to protect the purchaser against the risk of the tenderer's unwarranted conduct as amplified under sub-clause 19.7 below.
- 19.2 The tenderers who are currently registered and, also, will continue to remain registered during the tender validity period with Directorate General of Supplies & Disposals or with National Small Industries Corporation, New Delhi for the specific goods as per tender enquiry specification shall be eligible for exemption from EMD. Vague stipulations in the Registration Certificate such as "to customers' specification" etc. will not be acceptable for exemption from furnishing of earnest money. In case the tenderer falls in these categories, it should furnish copy of its valid registration details (with DGS&D or NSIC, as the case may be).
- 19.3 The earnest money shall be denominated in Indian Rupees or equivalent currencies as per GIT clause 12.2. The earnest money shall be furnished in one of the following forms:
 - i) Account Payee Demand Draft
 - ii) Banker's cheque and
 - iii) Bank Guarantee

- 19.4 The demand draft or banker's cheque shall be drawn on any commercial bank in India or country of the tenderer, in favour of the "HSCC (India) Ltd" payable at New Delhi/Noida. In case of bank guarantee, the same is to be provided from any commercial bank in India or country of the tenderer as per the format specified under Section XIII in these documents
- 19.5 The earnest money shall be valid for a period of forty-five (45) days beyond the validity period of the tender. As validity period of Tender as per Clause 20 of GIT is 120 days, the EMD shall be valid for 165 days from Techno Commercial Tender opening date.
- 19.6 Unsuccessful tenderers' earnest money will be returned to them without any interest, after expiry of the tender validity period, but not later than thirty days after conclusion of the resultant contract. Successful tenderer's earnest money will be returned without any interest, after receipt of performance security from that tenderer.
- 19.7 Earnest Money is required to protect the purchaser against the risk of the Tenderer's conduct, which would warrant the forfeiture of the EMD. Earnest money of a tenderer will be forfeited, if the tenderer withdraws or amends its tender or impairs or derogates from the tender in any respect within the period of validity of its tender or if it comes to notice that the information/documents furnished in its tender is incorrect, false, misleading or forged without prejudice to other rights of the purchaser. The successful tenderer's earnest money will be forfeited without prejudice to other rights of Purchaser if it fails to furnish the required performance security within the specified period.
- 19.8 In the case of Bank Guarantee furnished from banks outside India (i.e. foreign Banks), it should be authenticated and countersigned by any nationalised bank in India by way of back-to-back counter guarantee and the same should be submitted along with the bid.

20. Tender Validity

- 20.1 If not mentioned otherwise in the SIT, the tenders shall remain valid for acceptance for a period of 120 days (One hundred and twenty days) after the date of tender opening prescribed in the TE document. Any tender valid for a shorter period shall be treated as unresponsive and rejected.
- 20.2 In exceptional cases, the tenderers may be requested by the purchaser to extend the validity of their tenders up to a specified period. Such request(s) and responses thereto shall be conveyed by surface mail or by fax/telex/cable followed by surface mail. The tenderers, who agree to extend the tender validity, are to extend the same without any change or modification of their original tender and they are also to extend the validity period of the EMD accordingly. A tenderer, however, may not agree to extend its tender validity without forfeiting its EMD.
- 20.3 In case the day up to which the tenders are to remain valid falls on/ subsequently declared a holiday or closed day for the purchaser, the tender validity shall automatically be extended up to the next working day.

21. Signing and Sealing of Tender

- 21.1 The tenderers shall submit their tenders as per the instructions contained in GIT Clause 11.
- 21.2 Unless otherwise mentioned in the SIT, a tenderer shall submit three copies of its tender marking them as "Original", "Duplicate" and "Triplicate". Duplicate & Triplicate tenders may contain all pages including Technical Literature/Catalogues as per in Original tenders.
- 21.3 The original and other copies of the tender shall either be typed or written in indelible ink and the same shall be signed by the tenderer or by a person(s) who has been duly authorized to bind the tenderer to the contract. The letter of authorization shall be by a written power of attorney, which shall also be furnished along with the tender.
- 21.4 Both the copies of the tender shall be duly signed at the appropriate places as indicated in the TE documents and all other pages of the tender including printed literature, if any shall be

- initialled by the same person(s) signing the tender. The tender shall not contain any erasure or overwriting, except as necessary to correct any error made by the tenderer and, if there is any such correction; the same shall be initialled by the person(s) signing the tender.
- 21.5 The tenderer is to seal the original and each copy of the tender in separate envelopes, duly marking the same as "Original", "Duplicate", "Triplicate" and so on and writing the address of the purchaser and the tender reference number on the envelopes. The sentence "NOT TO BE OPENED" before ______ (The tenderer is to put the date & time of tender opening) are to be written on these envelopes. The inner envelopes are then to be put in a bigger outer envelope, which will also be duly sealed, marked etc. as above. If the outer envelope is not sealed and marked properly as above, the purchaser will not assume any responsibility for its misplacement, premature opening, late opening etc.
- 21.6 TE document seeks quotation following **two Tender System**, in two parts. First part will be known as **'Techno Commercial Tender'**, and the second part **'Price Tender'** as specified in clause 11 of GIT. Tenderer shall seal **'Techno Commercial Tender'** and **'Price Tender'** separately and covers will be suitably super scribed. Both these sealed covers shall be put in a bigger cover and sealed and procedure prescribed in Paras 21.1 to 21.5 followed.

D. SUBMISSION OF TENDERS

22. Submission of Tenders

- 22.1 Unless otherwise specified, the tenderers are to deposit the tenders in the tender box kept for this purpose at HSCC (India) Ltd, Plot E-6 (A), Sector 1, Noida. In case of bulky tender, which can not be put into tender box, the same shall be submitted by the tenderer by hand to CGM (F&A Proc.) or his nominee, HSCC (India) Ltd, Plot E-6(A) Sector-1, Noida-201301, Uttar Pradesh. The officer receiving the tender will give the tenderer an official receipt duly signed with date and time.
- 22.2 The tenderers must ensure that they deposit their tenders not later than the closing time and date specified for submission of tenders. It is the responsibility of the tenderer to ensure that their Tenders whether sent by post or by courier or by person, are dropped in the Tender Box by the specified clearing date and time. In the event of the specified date for submission of tender falls on / is subsequently declared a holiday or closed day for the purchaser, the tenders will be received up to the appointed time on the next working day.

23. Late Tender

23.1 A tender, which is received after the specified date and time for receipt of tenders will be treated as "late" tender and will be ignored.

24. Alteration and Withdrawal of Tender

- 24.1 The tenderer, after submitting its tender, is permitted to alter / modify its tender so long as such alterations / modifications are received duly signed, sealed and marked like the original tender, within the deadline for submission of tenders. Alterations / modifications to tenders received after the prescribed deadline will not be considered.
- 24.2 No tender should be withdrawn after the deadline for submission of tender and before expiry of the tender validity period. If a tenderer withdraws the tender during this period, it will result in forfeiture of the earnest money furnished by the tenderer in its tender.

E. TENDER OPENING

25. Opening of Tenders

25.1 The purchaser will open the tenders at the specified date and time and at the specified place as indicated in the NIT.

- In case the specified date of tender opening falls on / is subsequently declared a holiday or closed day for the purchaser, the tenders will be opened at the appointed time and place on the next working day.
- 25.2 Authorized representatives of the tenderers, who have submitted tenders on time may attend the tender opening provided they bring with them letters of authority from the corresponding tenderers.
 - The tender opening official(s) will prepare a list of the representatives attending the tender opening. The list will contain the representatives' names & signatures and corresponding tenderers' names and addresses.
- 25.3 Two Tender system as mentioned in Para 21.6 above will be as follows. The <u>Techno Commercial Tenders</u> are to be opened in the first instance, at the prescribed time and date as indicated in NIT. These Tenders shall be scrutinized and evaluated by the competent committee/ authority with reference to parameters prescribed in the TE document. During the Techno Commercial Tender opening, the tender opening official(s) will read the salient features of the tenders like brief description of the goods offered, delivery period, Earnest Money Deposit and any other special features of the tenders, as deemed fit by the tender opening official(s). Thereafter, in the second stage, the Price Tenders of only the Techno Commercially acceptable offers (as decided in the first stage) shall be opened for further scrutiny and evaluation on a date notified after the evaluation of the Techno Commercial tender. The prices, special discount if any of the goods offered etc., as deemed fit by tender opening official(s) will be read out.

F. SCRUTINY AND EVALUATION OF TENDERS

26. Basic Principle

Tenders will be evaluated on the basis of the terms & conditions already incorporated in the TE document, based on which tenders have been received and the terms, conditions etc. mentioned by the tenderers in their tenders. No new condition will be brought in while scrutinizing and evaluating the tenders.

27. Scrutiny of Tenders

- 27.1 The Purchaser will examine the Tenders 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 stamped and whether the Tenders are generally in order.
- 27.2 The Purchaser's determination of a tender's responsiveness is to be based on the contents of the tender itself without recourse to extrinsic evidence.
- 27.3 The tenders will be scrutinized to determine whether they are complete and meet the essential and important requiremens, conditions etc. As prescribed in the TE document. The tenders, which do not meet the basic requirements, are liable to be treated as non responsive and will be rejected.
- 27.4 The following are some of the important aspects, for which a tender shall be declared non responsive and will be summarily ignored;
 - (i) Tender form as per Section X (Signed and stamped) not enclosed.
 - (ii) Tender is unsigned.
 - (iii) Tender validity is shorter than the required period.
 - (iv) Required EMD (Amount, validity etc.)/ exemption documents have not been provided.
 - (v) Tenderer has quoted for goods manufactured by other manufacturer(s) without the required Manufacturer's Authorisation Form as per Section XIV.

- (vi) Tenderer has not agreed to give the required performance security of required amont in an acceptable form in terms of GCC clause 5, read with modification, if any, in Section V " Special Conditions of Contract", for due performance of the contract.
- (vii) Goods offered are not meeting the tender enquiry specification.
- (viii) Tenderer has not agreed to other essential condition(s) specially incorporated in the tender enquiry like terms of payment, liquidated damages clause, warranty clause, dispute resolution mechanism applicable law.
- (ix) Poor/ unsatisfactory past performance.
- (x) Tenderers who stand deregistered/banned/blacklisted by any Govt. Authorities.
- (xi) Tenderer is not eligible as per GIT Clauses 5.1 & 17.1.
- (xii) Tenderer has not quoted for the entire quantity as specified in the List of Requirements in the quoted schedule.
- (Xiii) Tenderer has not agreed for the delivery terms & delivery schedule.

28. Minor Infirmity/Irregularity/Non-Conformity

28.1 If during the evaluation, the purchaser find any any minor informality and/or irregularity and/or non-conformity in a tender, the purchaser will convey its observation on such 'minor' issues to the tenderer by registered/speed post etc. asking the tenderer to respond by a specified date. If the tenderer does not reply by the specified date or gives evasive reply without clarifying the point at issue in clear terms, that tender will be liable to be ignored.

29 Discrepancies in Prices

- 29.1 If, in the price structure quoted by a tenderer, there is discrepancy between the unit price and the total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly, unless the purchaser feels that the tenderer has made a mistake in placing the decimal point in the unit price, in which case the total price as quoted shall prevail over the unit price and the unit price corrected accordingly.
- 29.2 If there is an error in a total price, which has been worked out through addition and/or subtraction of subtotals, the subtotals shall prevail and the total corrected; and
- 29.3 If there is a discrepancy between the amount expressed in words and figures, the amount in words shall prevail, subject to sub clause 29.1 and 29.2 above.
- 29.4 If, as per the judgement of the purchaser, there is any such arithmetical discrepancy in a tender, the same will be suitably conveyed to the tenderer by registered / speed post. If the tenderer does not agree to the observation of the purchaser, the tender is liable to be ignored.

30. Discrepancy between original and copies of Tender

30.1 In case any discrepancy is observed between the text etc. of the original copy and that in the other copies of the same tender set, the text etc. of the original copy shall prevail. Here also, the purchaser will convey its observation suitably to the tenderer by register / speed post and, if the tenderer does not accept the purchaser's observation, that tender will be liable to be ignored.

31. Qualification Criteria

31.1 Tenders of the tenderers, who do not meet the required Qualification Criteria prescribed in Section IX, will be treated as non - responsive and will not be considered further.

32. Conversion of tender currencies to Indian Rupees

In case the TE document permits the tenderers to quote their prices in different currencies, all such quoted prices of the responsive tenderers will be converted to a single currency viz.,

Indian Rupees for the purpose of equitable comparison and evaluation, as per the exchange rates established by the Reserve Bank of India for similar transactions, as on the date of 'Price Tender' opening.

33. Schedule-wise Evaluation

33.1 In case the List of Requirements contains more than one schedule, the responsive tenders will be evaluated and compared separately for each schedule. The tender for a schedule will not be considered if the complete requirements prescribed in that schedule are not included in the tender. However, as already mentioned in GIT sub clause 13.2, the tenderers have the option to quote for any one or more schedules and offer discounts for combined schedules. Such discounts wherever applicable will be taken into account to determine the lowest evaluated cost for the purchaser in deciding the successful tenderer for each schedule, subject to tenderer(s) being responsive.

34. Comparison of Tenders

34.1 Unless mentioned otherwise in Section – III – Special Instructions to Tenderers and Section – VI – List of Requirements, the comparison of the responsive tenders shall be carried out on Delivery Duty Paid (DDP) consignee site basis. The quoted turnkey prices and CMC prices will also be added for comparison/ranking purpose for evaluation. Net Present value (NPV) of the Comprehensive Annual Maintenance charges (CMC) quoted for 3 years after the warranty period shall be added to the bid price for evaluation and will be calculated at a discounted rate of 10% per year.

35. Additional Factors and Parameters for Evaluation and Ranking of Responsive Tenders

- 35.1 Further to GIT Clause 34 above, the purchaser's evaluation of a tender will include and take into account the following:
 - i) In the case of goods manufactured in India or goods of foreign origin already located in India, sales tax & other similar taxes and excise duty & other similar duties, Customs Duties, Service Tax, Works Contract Tax etc which will be contractually payable (to the tenderer), on the goods if a contract is awarded on the tenderer; and
 - ii) in the case of goods of foreign origin offered from abroad, customs duty and other similar import duties/taxes, which will be contractually payable (to the tenderer) on the goods if the contract is awarded on the tenderer.
- 35.2 The purchaser's evaluation of tender will also take into account the additional factors, if any, incorporated in SIT in the manner and to the extent indicated therein.
- 35.3 i. In exercise of powers conferred in section 11 of the Micro, Small and Medium Enterprises Development (MSMED) Act 2006, the Government has notified a new Public Procurement Policy for Micro & Small enterprises effective from 1st April 2012. The policy mandates that 20% of procurement of annual requirement of goods and services by all Central Ministries/Public Sector Undertakings will be from the micro and small enterprises. The Government has also earmarked a sub-target of 4% procurement of goods & services from MSEs owned by SC/ST entrepreneurs out of above said 20% quantity.
 - ii. In accordance with the above said notification, the participating Micro and Small Enterprises (MSEs) in a tender, quoting price within the band of L 1+15% would also be allowed to supply a portion of the requirement by bringing down their price to the L1 price, in a situation where L1 price is from someone other than on MSE. Such MSEs would be allowed to supply up to 20% of the total tendered value. In case there are more than one such eligible MSE, the 20% supply will be

- shared equally. Out of 20% of the quantity earmarked for supply from MSEs, 4% quantity is earmarked for procurement from MSEs owned by SC/ST entrepreneurs. However, in the event of failure of such MSEs to participate in the tender process or meet the tender requirements and the L1 price, the 4% quantity earmarked for MSEs owned by SC/ST entrepreneurs will be met from other participating MSEs.
- iii. The MSEs fulfilling the prescribed eligibility criteria and participating in the tender shall enclose with their tender a copy of their valid registration certificate with District Industries Centres or Khadi and Village Industries Commission or Khadi and Village Industries Board or Coir board or national Small Industries Corporation or any other body specified by Ministry of Micro and Small enterprises in support of their being on MSE, failing which their tender will be liable to be ignored.

36. Tenderer's capability to perform the contract

- 36.1 The purchaser, through the above process of tender scrutiny and tender evaluation will determine to its satisfaction whether the tenderer, whose tender has been determined as the lowest evaluated responsive tender is eligible, qualified and capable in all respects to perform the contract satisfactorily. If, there is more than one schedule in the List of Requirements, then, such determination will be made separately for each schedule.
- 36.2 The above-mentioned determination will, interalia, take into account the tenderer's financial, technical and production capabilities for satisfying all the requirements of the purchaser as incorporated in the TE document. Such determination will be based upon scrutiny and examination of all relevant data and details submitted by the tenderer in its tender as well as such other allied information as deemed appropriate by the purchaser.

37. Contacting the Purchaser

- 37.1 From the time of submission of tender to the time of awarding the contract, if a tenderer needs to contact the purchaser for any reason relating to this tender enquiry and / or its tender, it should do so only in writing.
- 37.2 In case a tenderer attempts to influence the purchaser in the purchaser's decision on scrutiny, comparison & evaluation of tenders and awarding the contract, the tender of the tenderer shall be liable for rejection in addition to appropriate administrative actions being taken against that tenderer, as deemed fit by the purchaser.

G. AWARD OF CONTRACT

38. Purchaser's Right to accept any tender and to reject any or all tenders

38.1 The purchaser reserves the right to accept in part or in full any tender or reject any or more tender(s) without assigning any reason or to cancel the tendering process and reject all tenders at any time prior to award of contract, without incurring any liability, whatsoever to the affected tenderer or tenderers.

39. Award Criteria

39.1 Subject to GIT clause 38 above, the contract will be awarded to the lowest evaluated responsive tenderer decided by the purchaser in terms of GIT Clause 36.

40. Variation of Quantities at the Time of Award/ Currency of Contract

- 40.1 At the time of awarding the contract, the purchaser reserves the right to increase or decrease by up to twenty five (25) per cent, the quantity of goods and services mentioned in the schedule (s) in the "List of Requirements" (rounded of to next whole number) without any change in the unit price and other terms & conditions quoted by the tenderer.
- 40.2 If the quantity has not been increased at the time of the awarding the contract, the purchaser reserves the right to increase by up to twenty five (25) per cent, the quantity of goods and services mentioned in the contract (rounded of to next whole number) without any change in the unit price and other terms & conditions mentioned in the contract, during the currency of the contract after one year from the Date of Notification of Award.

41. Notification of Award

- 41.1 Before expiry of the tender validity period, the purchaser will notify the successful tenderer(s) in writing, by registered / speed post or by fax/ telex/cable (to be confirmed by registered / speed post) that its tender for goods & services, which have been selected by the purchaser, has been accepted, also briefly indicating therein the essential details like description, specification and quantity of the goods & services and corresponding prices accepted. The successful tenderer must furnish to the purchaser the required performance security within thirty days from the date of dispatch of this notification, failing which the EMD will forfeited and the award will be cancelled. Relevant details about the performance security have been provided under GCC Clause 5 under Section IV.
- 41.2 The Notification of Award shall constitute the conclusion of the Contract.

42. Issue of Contract

- 42.1 Promptly after notification of award, the Purchaser/Consignee will mail the contract form (as per Section XVI) duly completed and signed, in duplicate, to the successful tenderer by registered / speed post.
- 42.2 Within twenty one days from the date of the contract, the successful tenderer shall return the original copy of the contract, duly signed and dated, to the Purchaser/Consignee by registered / speed post.
- 42.3 The Purchaser/Consignee reserves the right to issue the Notification of Award consignee wise.

43. Non-receipt of Performance Security and Contract by the Purchaser/Consignee

43.1 Failure of the successful tenderer in providing performance security and / or returning contract copy duly signed in terms of GIT clauses 41 and 42 above shall make the tenderer liable for forfeiture of its EMD and, also, for further actions by the Purchaser/Consignee against it as per the clause 24 of GCC – Termination of default.

44. Return of E M D

44.1 The earnest money of the successful tenderer and the unsuccessful tenderers will be returned to them without any interest, whatsoever, in terms of GIT Clause 19.6.

45. Publication of Tender Result

45.1 The name and address of the successful tenderer(s) receiving the contract(s) will be mentioned in the notice board/bulletin/web site of the purchaser.

46. Corrupt or Fraudulent Practices

- 46.1 It is required by all concerned namely the Consignee/Tenderers/Suppliers etc to observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, the Purchaser: -
 - (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 of any thing of value to influence the action of a public official in the procurement process or in contract execution; and
 - (ii) "fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Purchaser, and includes collusive practice among Tenderers (prior to or after Tender submission) designed to establish Tender prices at artificial non-competitive levels and to deprive the Purchaser of the benefits of free and open competition
 - (b) will reject a proposal for award if it determines that the Tenderer recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question;
 - (c) will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a contract by the purchaser if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing the contract.

SECTION - III SPECIAL INSTRUCTIONS TO TENDERERS (SIT)

Sl. No.	GIT Clause	Topic	SIT Provision	Page No.
	No.			
A	1 to 7	Preamble	No Change	24
В	8 to 10	TE documents	No Change	24
С	11 to 21	Preparation of Tenders	No Change	24
D	22 to24	Submission of Tenders	No Change	24
Е	25	Tender Opening	No Change	24
F	26 to 37	Scrutiny and Evaluation of Tenders	No Change	24
G	38 to 45	Award of Contract	No Change	24

SPECIAL INSTRUCTIONS TO TENDERERS (SIT)

The following Special Instructions to Tenderers will apply for this purchase. These special instructions will modify/substitute/supplement the corresponding General Instructions to Tenderers (GIT) incorporated in Section II. The corresponding GIT clause numbers have also been indicated in the text below:

In case of any conflict between the provision in the GIT and that in the SIT, the provision contained in the SIT shall prevail.

A Preamble

No Change

B TE documents

No Change

C Preparation of Tenders

No Change

D Submission of Tenders

No Change

E Tender Opening

No Change

F Scrutiny and Evaluation of Tenders

No Change

G Award of Contract

No Change

SECTION - IV GENERAL CONDITIONS OF CONTRACT (GCC) TABLE OF CLAUSES

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GENERAL CONDITIONS OF CONTRACT (GCC)

1. Application

1.1 The General Conditions of Contract incorporated in this section shall be applicable for this purchase to the extent the same are not superseded by the Special Conditions of Contract prescribed under Section V, List of requirements under Section VI and Technical Specification under Section VII of this document.

2. Use of contract documents and information

- 2.1 The supplier shall not, without the purchaser's prior written consent, disclose the contract or any provision thereof including any specification, drawing, sample or any information furnished by or on behalf of the purchaser in connection therewith, to any person other than the person(s) employed by the supplier in the performance of the contract emanating from this TE document. Further, any such disclosure to any such employed person shall be made in confidence and only so far as necessary for the purposes of such performance for this contract.
- 2.2 Further, the supplier shall not, without the purchaser's prior written consent, make use of any document or information mentioned in GCC sub-clause 2.1 above except for the sole purpose of performing this contract.
- 2.3 Except the contract issued to the supplier, each and every other document mentioned in GCC sub-clause 2.1 above shall remain the property of the purchaser and, if advised by the purchaser, all copies of all such documents shall be returned to the purchaser on completion of the supplier's performance and obligations under this contract.

3. Patent Rights

3.1 The supplier shall, at all times, indemnify and keep indemnified the purchaser, free of cost, against all claims which may arise in respect of goods & services to be provided by the supplier under the contract for infringement of any intellectual property rights or any other right protected by patent, registration of designs or trademarks. In the event of any such claim in respect of alleged breach of patent, registered designs, trade marks etc. being made against the purchaser, the purchaser shall notify the supplier of the same and the supplier shall, at his own expenses take care of the same for settlement without any liability to the purchaser.

4. Country of Origin

- 4.1 All goods and services to be supplied and provided for the contract shall have the origin in India or in the countries with which the Government of India has trade relations.
- 4.2 The word "origin" incorporated in this clause means the place from where the goods are mined, cultivated, grown, manufactured, produced or processed or from where the services are arranged.
- 4.3 The country of origin may be specified in the Price Schedule

5. Performance Security

5.1 Within thirty (30) days from date of the issue of notification of award by the Purchaser/Consignee, the supplier, shall furnish performance security to the Purchaser/Consignee for an amount equal to ten percent (10%) of the total value of the contract, valid up to sixty (60) days after the date of completion of all contractual obligations by the

- supplier, including the warranty obligations, initially valid for a period of minimum 30 months from the date of Notification of Award.
- 5.2 The Performance security shall be denominated in Indian Rupees or in the currency of the contract as detailed below:
 - a) It shall be in any one of the forms namely Account Payee Demand Draft or Fixed Deposit Receipt drawn from any Scheduled bank in India or Bank Guarantee issued by a Scheduled bank in India, in the prescribed form as provided in section XV of this document in favour of the Purchaser/Consignee. The validity of the Fixed Deposit receipt or Bank Guarantee will be for a period up to sixty (60) days beyond Warranty Period.
- 5.3 In the event of any failure /default of the supplier with or with out any quantifiable loss to the government including furnishing of consignee wise Bank Guarantee for CMC security as per Proforma in Section XV, the amount of the performance security is liable to be forfeited. The Administration Department may do the needful to cover any failure/default of the supplier with or without any quantifiable loss to the Government.
- 5.4 In the event of any amendment issued to the contract, the supplier shall, within twenty-one (21) days of issue of the amendment, furnish the corresponding amendment to the Performance Security (as necessary), rendering the same valid in all respects in terms of the contract, as amended.
- 5.5 The supplier shall enter into Annual Comprehensive Maintenance Contract as per the 'Contract Form B' in Section XVI with respective consignees, 3 (three) months prior to the completion of Warranty Period. The CMC will commence from the date of expiry of the Warranty Period.
- 5.6 Subject to GCC sub clause 5.3 above, the Purchaser/Consignee will release the Performance Security without any interest to the supplier on completion of the supplier's all contractual obligations including the warranty obligations & after receipt of Consignee wise bank guarantee for CMC security in favour of Head of the Hospital/ Institute/ Medical College of the consignee as per the format in Section XV.

6. Technical Specifications and Standards

6.1 The Goods & Services to be provided by the supplier under this contract shall conform to the technical specifications and quality control parameters mentioned in 'Technical Specification' and 'Quality Control Requirements' under Sections VII and VIII of this document.

7. Packing and Marking

- 7.1 The packing for the goods to be provided by the supplier should be strong and durable enough to withstand, without limitation, the entire journey during transit including transhipment (if any), rough handling, open storage etc. without any damage, deterioration etc. As and if necessary, the size, weights and volumes of the packing cases shall also take into consideration, the remoteness of the final destination of the goods and availability or otherwise of transport and handling facilities at all points during transit up to final destination as per the contract.
- 7.2 The quality of packing, the manner of marking within & outside the packages and provision of accompanying documentation shall strictly comply with the requirements as provided in Technical Specifications and Quality Control Requirements under Sections VII and VIII and in SCC under Section V. In case the packing requirements are amended due to issue of any amendment to the contract, the same shall also be taken care of by the supplier accordingly.
- 7.3 Packing instructions:

Unless otherwise mentioned in the Technical Specification and Quality Control Requirements under Sections VII and VIII and in SCC under Section V, the supplier shall make separate packages for each consignee (in case there is more than one consignee mentioned in the contract) and mark each package on three sides with the following with indelible paint of proper quality:

- a. contract number and date
- b. brief description of goods including quantity
- c. packing list reference number
- d. country of origin of goods
- e. consignee's name and full address and
- f. supplier's name and address

8. Inspection, Testing and Quality Control

- 8.1 The purchaser and/or its nominated representative(s) will, without any extra cost to the purchaser, inspect and/or test the ordered goods and the related services to confirm their conformity to the contract specifications and other quality control details incorporated in the contract. The purchaser shall inform the supplier in advance, in writing, the purchaser's programme for such inspection and, also the identity of the officials to be deputed for this purpose. The cost towards the transportation, boarding & lodging will be borne by the purchaser and/or its nominated representative(s).
- 8.2 The Technical Specification and Quality Control Requirements incorporated in the contract shall specify what inspections and tests are to be carried out and, also, where and how they are to be conducted. If such inspections and tests are conducted in the premises of the supplier or its subcontractor(s), all reasonable facilities and assistance, including access to relevant drawings, design details and production data, shall be furnished by the supplier to the purchaser's inspector at no charge to the purchaser.
- 8.3 If during such inspections and tests the contracted goods fail to conform to the required specifications and standards, the purchaser's inspector may reject them and the supplier shall either replace the rejected goods or make all alterations necessary to meet the specifications and standards, as required, free of cost to the purchaser and resubmit the same to the purchaser's inspector for conducting the inspections and tests again.
- 8.4 In case the contract stipulates pre-despatch inspection of the ordered goods at supplier's premises, the supplier shall put up the goods for such inspection to the purchaser's inspector well ahead of the contractual delivery period, so that the purchaser's inspector is able to complete the inspection within the contractual delivery period.
- 8.5 If the supplier tenders the goods to the purchaser's inspector for inspection at the last moment without providing reasonable time to the inspector for completing the inspection within the contractual delivery period, the inspector may carry out the inspection and complete the formality beyond the contractual delivery period at the risk and expense of the supplier. The fact that the goods have been inspected after the contractual delivery period will not have the effect of keeping the contract alive and this will be without any prejudice to the legal rights and remedies available to the purchaser under the terms & conditions of the contract.
- 8.6 The purchaser's/consignee's contractual right to inspect, test and, if necessary, reject the goods after the goods' arrival at the final destination shall have no bearing of the fact that the goods have previously been inspected and cleared by purchaser's inspector during pre-despatch inspection mentioned above.
- 8.7 Goods accepted by the purchaser/consignee and/or its inspector at initial inspection and in final inspection in terms of the contract shall in no way dilute purchaser's/consignee's right to reject the same later, if found deficient in terms of the warranty clause of the contract, as incorporated under GCC Clause 15.

8.8 Principal/ Foreign supplier shall also have the equipment inspected by recognised/ reputed agency like SGS, Lloyd or equivalent (acceptable to the purchaser) prior to despatch at the supplier's cost and furnish necessary certificate from the said agency in support of their claim.

9. Terms of Delivery

9.1 Goods shall be delivered by the supplier in accordance with the terms of delivery and as per the delivery period specified in the schedule of requirement. Please note that the time shall be the essence of the contract.

10. Transportation of Goods

10.1 Instructions for transportation of imported goods offered from abroad:

The supplier shall not arrange part-shipments and/or transhipment without the express/prior written consent of the purchaser. The supplier is required under the contract to deliver the goods under CIP (Named port of destination) terms; the shipment shall be made by Indian flag vessel or by vessels belonging to the conference lines in which India is a member country through India's forwarding agents/coordinators. In case the forwarding agent/coordinators are unable to provide timely adequate space in Indian flag vessel or by vessels belonging to the conference lines, the supplier shall arrange shipment through any available vessel to adhere to the delivery schedule given in the contract.

In case of airlifting of imported goods offered from abroad, the same will be done only through the National Carrier i.e. Air India wherever applicable. In case the National Carrier is not available, any other airlines available for early delivery may be arranged.

10.2 Instructions for transportation of domestic goods including goods already imported by the supplier under its own arrangement:

In case no instruction is provided in this regard in the SCC, the supplier will arrange transportation of the ordered goods as per its own procedure.

11. Insurance:

- 11.1 Unless otherwise instructed in the SCC, the supplier shall make arrangements for insuring the goods against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery in the following manner:
 - i) in case of supply of domestic goods on Consignee site basis, the supplier shall be responsible till the entire stores contracted for arrival in good condition at destination. The transit risk in this respect shall be covered by the Supplier by getting the stores duly insured. The insurance cover shall be obtained by the Supplier and should be valid till 3 months after the receipt of goods by the Consignee.
 - ii) in case of supply of the imported goods on CIP Named port of Destination Basis, the additional extended Insurance (local transportation and storage) would be borne by the Supplier from the port of entry to the consignee site for a period including 3 months beyond date of delivery.

If the equipment is not commissioned and handed over to the consignee within 3 months, the insurance will be got extended by the supplier at their cost till the successful installation, testing, commissioning and handing over of the goods to the consignee. In case the delay in the installation and commissioning is due to handing over of the site to the supplier by the consignee, such extensions of the insurance will still be done by the supplier, but the insurance extension charges at actuals will be reimbursed.

12. Spare parts

- 12.1 If specified in the List of Requirements and in the resultant contract, the supplier shall supply/provide any or all of the following materials, information etc. pertaining to spare parts manufactured and/or supplied by the supplier:
 - a) The spare parts as selected by the Purchaser/Consignee to be purchased from the supplier, subject to the condition that such purchase of the spare parts shall not relieve the supplier of any contractual obligation including warranty obligations; and
 - b) In case the production of the spare parts is discontinued:
 - i) Sufficient advance notice to the Purchaser/Consignee before such discontinuation to provide adequate time to the purchaser to purchase the required spare parts etc., and
 - ii) Immediately following such discontinuation, providing the Purchaser/Consignee, free of cost, the designs, drawings, layouts and specifications of the spare parts, as and if requested by the Purchaser/Consignee.
- 12.2 Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spares for the goods so that the same are used during warranty and CMC period.

13. Incidental services

- 13.1 Subject to the stipulation, if any, in the SCC (Section V), List of Requirements (Section VI) and the Technical Specification (Section VII), the supplier shall be required to perform the following services.
 - i) Installation & commissioning, Supervision and Demonstration of the goods
 - ii) Providing required jigs and tools for assembly, minor civil works required for the completion of the installation.
 - iii) Training of Consignee's Doctors, Staff, operators etc. for operating and maintaining the goods
 - iv) Supplying required number of operation & maintenance manual for the goods

14. Distribution of Dispatch Documents for Clearance/Receipt of Goods

The supplier shall send all the relevant despatch documents well in time to the Purchaser/Consignee to enable the Purchaser/Consignee clear or receive (as the case may be) the goods in terms of the contract.

Unless otherwise specified in the SCC, the usual documents involved and the drill to be followed in general for this purpose are as follows.

A) For Domestic Goods, including goods already imported by the supplier under its own arrangement

Within 24 hours of despatch, the supplier shall notify the purchaser, consignee, and others concerned if mentioned in the contract, the complete details of despatch and also supply the following documents to them by registered post / speed post (or as instructed in the contract):

- (i) Four copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount;
- (ii) Consignee Receipt Certificate as per Section XVII in original issued by the authorized representative of the consignee;
- (iii) Two copies of packing list identifying contents of each package;
- (iv) Inspection certificate issued by the nominated Inspection agency, if any.
- (v) Certificate of origin;

- (vi) Insurance Certificate as per GCC Clause 11.
- (vii) Manufacturers/Supplier's warranty certificate & In-house inspection certificate.

B) For goods imported from abroad

Within 24 hours of despatch, the supplier shall notify the purchaser, consignee, and others concerned if mentioned in the contract, the complete details of despatch and also supply the following documents to them by registered post / speed post (or as instructed in the contract). Any delay or demurrage occurred during the customs clearance on account of the non-availability of technical support/ clarifications /documents from the supplier shall be borne by the supplier:

- (i) Four copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount;
- (ii) Original and four copies of the negotiable clean, on-board Bill of Lading/Airway bill, marked freight pre paid and four copies of non-negotiable Bill of Lading/Airway bill;
- (iii) Four Copies of packing list identifying contents of each package;
- (iv) Insurance Certificate as per GCC Clause 11.
- (v) Manufacturer's/Supplier's warranty certificate;
- (vi) Inspection Certificate for the despatched equipments issued by recognized/ reputed agency like SGS, Lloyd or equivalent (acceptable to the purchaser) prior to despatch
- (vii) Manufacturer's own factory inspection report;
- (viii)Certificate of origin
- (ix) Port of Loading;
- (x) Port of Discharge and
- (xi) Expected date of arrival.

15. Warranty

- 15.1 The supplier warrants comprehensively that the goods supplied under the contract is new, unused and incorporate all recent improvements in design and materials unless prescribed otherwise by the purchaser in the contract. The supplier further warrants that the goods supplied under the contract shall have no defect arising from design, materials (except when the design adopted and / or the material used are as per the Purchaser's/Consignee's specifications) or workmanship or from any act or omission of the supplier, that may develop under normal use of the supplied goods under the conditions prevailing in India.
- 15.2 The **warranty** shall remain valid for the period as mentioned in the list of requirement/ General Technical specification, after the goods or any portion thereof as the case may be, have been delivered, installed and commissioned at the final destination and accepted by the purchaser / consignee (s) in terms of the contract, unless specified otherwise in the SCC
 - a. No conditional warranty like mishandling, manufacturing defects etc. will be acceptable.
 - b. Warranty as well as Comprehensive Maintenance contract will be inclusive of all accessories and Turnkey work
 - c. Replacement and repair will be under taken for the defective goods.
 - d. Proper marking has to be made for all spares for identification like printing of installation and repair dates.
- 15.3 In case of any claim arising out of this warranty, the Purchaser/Consignee shall promptly notify the same in writing to the supplier. The period of the warranty will be as per G.C.C clause number 15.2 above irrespective of any other period mentioned elsewhere in the bidding documents.
- Upon receipt of such notice, the supplier shall, within 8 hours on a 24(hrs) X 7 (days) X 365 (days) basis respond to take action to 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 after

- providing their replacements and no claim, whatsoever shall lie on the purchaser for such replaced parts/goods thereafter. The penalty clause for non rectification will be applicable as per tender conditions
- 15.5 In the event of any rectification of a defect or replacement of any defective goods during the warranty period, the warranty for the rectified/replaced goods shall be extended to a further period of twenty four (24) months from the date such rectified / replaced goods starts functioning to the satisfaction of the purchaser.
- 15.6 If the supplier, having been notified, fails to respond to take action to repair or replace the defect(s) within 8 hours on a 24(hrs) X 7 (days) X 365 (days) basis, the purchaser may proceed to take such remedial action(s) as deemed fit by the purchaser, at the risk and expense of the supplier and without prejudice to other contractual rights and remedies, which the purchaser may have against the supplier.
- During Warranty period, the supplier is required to visit at each consignee's site at least once in 6 months commencing from the date of the installation for preventive maintenance of the goods
- 15.8 The Purchaser/Consignee reserve the rights to enter into Annual Comprehensive Maintenance Contract between Consignee and the Supplier for the period as mentioned in Section VII, Technical Specifications after the completion of warranty period.
- 15.9 The supplier along with its Indian Agent and the CMC provider shall ensure continued supply of the spare parts for the machines and equipments supplied by them to the purchaser for 10 years from the date of installation and handing over.
- 15.10 The Supplier along with its Indian Agent and the CMC Provider shall always accord most favoured client status to the Purchaser vis-à-vis its other Clients/Purchasers of its equipments/machines/goods etc. and shall always give the most competitive price for its machines/equipments supplied to the Purchaser/Consignee.

16. Assignment

16.1 The Supplier shall not assign, either in whole or in part, its contractual duties, responsibilities and obligations to perform the contract, except with the Purchaser's prior written permission.

17. Sub Contracts

- 17.1 The Supplier shall notify the Purchaser in writing of all sub contracts awarded under the contract if not already specified in its tender. Such notification, in its original tender or later, shall not relieve the Supplier from any of its liability or obligation under the terms and conditions of the contract
- 17.2 Sub contract shall be only for bought out items and sub-assemblies.
- 17.3 Sub contracts shall also comply with the provisions of GCC Clause 4 ("Country of Origin").

18. Modification of contract

- 18.1 If necessary, the purchaser may, by a written order given to the supplier at any time during the currency of the contract, amend the contract by making alterations and modifications within the general scope of contract in any one or more of the following:
 - a) Specifications, drawings, designs etc. where goods to be supplied under the contract are to be specially manufactured for the purchaser,
 - b) Mode of packing,
 - c) Incidental services to be provided by the supplier
 - d) Mode of despatch,
 - e) Place of delivery, and
 - f) Any other area(s) of the contract, as felt necessary by the purchaser depending on the merits of the case.
- 18.2 In the event of any such modification/alteration causing increase or decrease in the cost of goods and services to be supplied and provided, or in the time required by the supplier to perform any

obligation under the contract, an equitable adjustment shall be made in the contract price and/or contract delivery schedule, as the case may be, and the contract amended accordingly. If the supplier doesn't agree to the adjustment made by the Purchaser/Consignee, the supplier shall convey its views to the Purchaser/Consignee within twenty-one days from the date of the supplier's receipt of the Purchaser's/Consignee's amendment / modification of the contract.

19. Prices

19.1 Prices to be charged by the supplier for supply of goods and provision of services in terms of the contract shall not vary from the corresponding prices quoted by the supplier in its tender and incorporated in the contract except for any price adjustment authorised in the SCC.

20. Taxes and Duties

- 20.1 Supplier shall be entirely responsible for all taxes, duties, fees, levies etc. incurred until delivery of the contracted goods to the purchaser.
- 20.2 Further instruction, if any, shall be as provided in the SCC.

21. Terms and Mode of Payment

21.1 Payment Terms

Payment shall be made subject to recoveries, if any, by way of liquidated damages or any other charges as per terms & conditions of contract in the following manner.

A) Payment for Domestic Goods Or Foreign Origin Located Within India.

Payment shall be made in Indian Rupees as specified in the contract in the following manner:

a) On delivery:

75 % payment of the contract price shall be paid on receipt of goods in good condition and upon the submission of the following documents:

- (i) Four copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount;
- (ii) Consignee Receipt Certificate as per Section XVII in original issued by the authorized representative of the consignee;
- (iii) Two copies of packing list identifying contents of each package;
- (iv) Inspection certificate issued by the nominated Inspection agency, if any.
- (v) Insurance Certificate as per GCC Clause 11 and documents also to be submitted for payment of LC confirming that dispatch documents has already been sent to all concerned as per the contract within 24 hours;
- (vi) Certificate of origin.

b) On Acceptance:

Balance 25 % payment would be made against 'Final Acceptance Certificate' as per Section XVIII of goods to be issued by the consignees subject to recoveries, if any, either on account of non-rectification of defects/deficiencies not attended by the Supplier or otherwise. In case where the installation & commissioning or final inspection and test at site is delayed for any reasons for which consignee is responsible, 25% of the contract price shall become payable, after the expiry of six months from the date of arrival of the last consignment at site subject to submission of a Bank Guarantee by the supplier for the said amount valid initially for the period of six months. The supplier shall get the validity of the Bank Guarantee extended for the further period as and when asked for the purchaser.

B) Payment for Imported Goods:

Payment for foreign currency portion shall be made in the currency as specified in the contract in the following manner:

a) On Shipment:

Seventy Five (75) % of the net CIP price (CIP price less Indian Agency commission) of the goods shipped shall be paid through irrevocable, non-transferable Letter of Credit (LC) opened in favour of the supplier in a bank in his country and upon submission of documents specified hereunder:

- (i) Four copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount;
- (ii) Original and four copies of the negotiable clean, on-board Bill of Lading/Airway bill, marked freight pre paid and four copies of non-negotiable Bill of Lading/Airway bill;
- (iii) Four Copies of packing list identifying contents of each package;
- (iv) Insurance Certificate as per GCC Clause 11 and documents also to be submitted for payment of LC confirming that dispatch documents has already been sent to all concerned as per the contract within 24 hours;
- (v) Manufacturer's/Supplier's warranty certificate;
- (vi) Inspection certificate issued by the nominated inspection agency, if applicable as per contract;
- (vii) Manufacturer's own factory inspection report and
- (viii) Certificate of origin by the chamber of commerce of the concerned country;
- (ix) Inspection Certificate for the despatched equipments issued by recognized/ reputed agency like SGS, Lloyd or equivalent (acceptable to the purchaser) prior to despatch.
- (x) Certificate of origin

b) On Acceptance:

Balance payment of 25 % of net CIP price of goods would be made against 'Final Acceptance Certificate' as per Section XVIII to be issued by the consignees to the supplier. The supplier shall submit the original final acceptance certificate to the Purchaser (HSCC India Ltd) who shall issue no objection certificate to the banker for payment through irrevocable Letter of Credit (LC) opened in favour of the Foreign Principal in a bank in his country, subject to recoveries, if any.

In case where the installation and commissioning or final inspection and test at site is delayed for any reason for which consignee is responsible, 25% of the contract price shall become payable, after the expiry of six months from the date of arrival of the last consignment at site subject to submission of a bank guarantee by the supplier for the said amount valid initially for the period of six months. The supplier shall get the validity of the bank Guarantee extended for the further period as and when asked for by the purchaser.

c) Payment of Incidental Costs till consignee site & Incidental Services (including Installation & Commissioning, Supervision, Demonstration and Training) will be paid in Indian Rupees to the Indian Agent on proof of final installation, commission and acceptance of equipment by the consignee.

d) Payment of Indian Agency Commission:

Indian Agency commission will be paid to the manufacturer's agent in the local currency for an amount in Indian rupees indicated in the relevant Price Schedule (as per prevailing rate of exchange ruling on the date of Contract) and shall not be subject to further escalation / exchange variation.

C) Payment of Turnkey, if any:

Turnkey payment will be made as indicated in the relevant Price Schedule (as per prevailing rate of exchange ruling on the date of Contract) and shall not be subject to further escalation / exchange variation.

D) Payment for Annual Comprehensive Maintenance Contract Charges:

The consignee will enter into CMC with the supplier at the rates as stipulated in the contract. The payment of CMC will be made on six monthly basis after satisfactory completion of said period, duly certified by the consignee on receipt of bank guarantee for an amount equivalent to 2.5 % of the cost of the equipment as per contract in the prescribed format given in Section XV valid till 2 months after expiry of entire CMC period.

- 21.2 The supplier shall not claim any interest on payments under the contract.
- 21.3 Where there is a statutory requirement for tax deduction at source, such deduction towards income tax and other tax as applicable will be made from the bills payable to the Supplier at rates as notified from time to time.
- 21.4 Irrevocable & non transferable LC shall be opened by the respective consignees. However, if the supplier requests specifically to open confirmed LC, the extra charges would be borne by the supplier. If LC is required to be extended and/or amended for reasons not attributable to the purchaser/consignee, the charges thereof shall be borne by the supplier.
- 21.5 The payment shall be made in the currency / currencies authorised in the contract.
- 21.6 The supplier shall send its claim for payment in writing, when contractually due, along with relevant documents etc., duly signed with date, to respective consignees.
- 21.7 While claiming payment, the supplier is also to certify in the bill that the payment being claimed is strictly in terms of the contract and all the obligations on the part of the supplier for claiming that payment has been fulfilled as required under the contract.
- While claiming reimbursement of duties, taxes etc. (like sales tax, excise duty, custom duty) from the Purchaser/Consignee, as and if permitted under the contract, the supplier shall also certify that, in case it gets any refund out of such taxes and duties from the concerned authorities at a later date, it (the supplier) shall refund to the Purchaser/Consignee forthwith.
- 21.9 In case where the supplier is not in a position to submit its bill for the balance payment for want of receipted copies of Inspection Note from the consignee and the consignee has not complained about the non-receipt, shortage, or defects in the supplies made, balance amount will be paid by the paying authority without consignee's receipt certificate after three months from the date of the preceding part payment for the goods in question, subject to the following conditions:
 - (a) The supplier will make good any defect or deficiency that the consignee (s) may report within six months from the date of despatch of goods.
 - (b) Delay in supplies, if any, has been regularized.
 - (c) The contract price where it is subject to variation has been finalized.
 - (d) The supplier furnishes the following undertakings:

"I/We,	certify that I/We have not received back the Inspection Note duly receipted by the
consignee	or any communication from the purchaser or the consignee about non-receipt, shortage or
defects in	the goods supplied. I/We agree to make good any defect or deficiency that the
consignee	may report within three months from the date of receipt of this balance payment.

22. Delivery

22.1 The supplier shall deliver of the goods and perform the services under the contract within the time schedule specified by the Purchaser/Consignee in the List of Requirements and as

- incorporated in the contract. The time for and the date of delivery of the goods stipulated in the schedule shall be deemed to be of the essence of the contract and the delivery must be completed not later than the date (s) as specified in the contact.
- 22.2 Subject to the provision under GCC clause 26, any unexcused delay by the supplier in maintaining its contractual obligations towards delivery of goods and performance of services shall render the supplier liable to any or all of the following sanctions:
 - (i) imposition of liquidated damages,
 - (ii) forfeiture of its performance security and
 - (iii) termination of the contract for default.
- 22.3 If at any time during the currency of the contract, the supplier encounters conditions hindering timely delivery of the goods and performance of services, the supplier shall promptly inform the Purchaser/Consignee in writing about the same and its likely duration and make a request to the Purchaser/Consignee for extension of the delivery schedule accordingly. On receiving the supplier's communication, the Purchaser/Consignee shall examine the situation as soon as possible and, at its discretion, may agree to extend the delivery schedule, with or without liquidated damages for completion of supplier's contractual obligations by issuing an amendment to the contract.
- When the period of delivery is extended due to unexcused delay by the supplier, the amendment letter extending the delivery period shall, interalia contain the following conditions:
 - (a) The Purchaser/Consignee shall recover from the supplier, under the provisions of the clause 23 of the General Conditions of Contract, liquidated damages on the goods and services, which the Supplier has failed to deliver within the delivery period stipulated in the contract.
 - (b) That no increase in price on account of any ground, whatsoever, including any stipulation in the contract for increase in price on any other ground and, also including statutory increase in or fresh imposition of customs duty, excise duty, sales tax/ VAT, Service Tax and Works Contract Tax or on account of any other tax or duty which may be levied in respect of the goods and services specified in the contract, which takes place after the date of delivery stipulated in the contract shall be admissible on such of the said goods and services as are delivered and performed after the date of the delivery stipulated in the contract.
 - (c) But nevertheless, the Purchaser/Consignee shall be entitled to the benefit of any decrease in price on account of reduction in or remission of customs duty, excise duty, sales tax/ VAT, Service Tax and Works Contract Tax or any other duty or tax or levy or on account of any other grounds, which takes place after the expiry of the date of delivery stipulated in the contract.
- 22.5 The supplier shall not dispatch the goods after expiry of the delivery period. The supplier is required to apply to the Purchaser/Consignee for extension of delivery period and obtain the same before despatch. In case the supplier dispatches the goods without obtaining an extension, it would be doing so at its own risk and no claim for payment for such supply and / or any other expense related to such supply shall lie against the purchaser.

22.6 Passing of Property

- 22.6.1 The Property in the goods shall not pass to the purchaser unless and until the goods have been delivered to the consignee in accordance with the conditions of the contract.
- 22.6.2 Where there is a contract for sale of specific goods and the supplier is bound to do something to the goods for the purpose of putting them into a deliverable state the

property does not pass until such thing is done.

22.6.3 Unless otherwise agreed, the goods remain at the supplier's risk until the property therein is transferred to the purchaser.

23. Liquidated damages

23.1 Subject to GCC clause 26, if the supplier fails to deliver any or all of the goods or fails to perform the services within the time frame(s) incorporated in the contract, the Purchaser/Consignee shall, without prejudice to other rights and remedies available to the Purchaser/Consignee under the contract, deduct from the contract price, as liquidated damages, a sum equivalent to 0.5% per week of delay or part thereof on delayed supply of goods and/or services until actual delivery or performance subject to a maximum of 10% of the contract price. Once the maximum is reached Purchaser/Consignee may consider termination of the contract as per GCC 24.

During the above-mentioned delayed period of supply and / or performance, the conditions incorporated under GCC sub-clause 22.4 above shall also apply.

24. Termination for default

- 24.1 The Purchaser/Consignee , without prejudice to any other contractual rights and remedies available to it (the Purchaser/Consignee), may, by written notice of default sent to the supplier, terminate the contract in whole or in part, if the supplier fails to deliver any or all of the goods or fails to perform any other contractual obligation(s) within the time period specified in the contract, or within any extension thereof granted by the Purchaser/Consignee pursuant to GCC sub-clauses 22.3 and 22.4.
- 24.2 In the event of the Purchaser/Consignee terminates the contract in whole or in part, pursuant to GCC sub-clause 24.1 above, the Purchaser/Consignee may procure goods and/or services similar to those cancelled, with such terms and conditions and in such manner as it deems fit and the supplier shall be liable to the Purchaser/Consignee for the extra expenditure, if any, incurred by the Purchaser/Consignee for arranging such procurement.
- 24.3 Unless otherwise instructed by the Purchaser/Consignee, the supplier shall continue to perform the contract to the extent not terminated.

25. Termination for insolvency

25.1 If the supplier becomes bankrupt or otherwise insolvent, the purchaser reserves the right to terminate the contract at any time, by serving written notice to the supplier without any compensation, whatsoever, to the supplier, subject to further condition that such termination will not prejudice or affect the rights and remedies which have accrued and / or will accrue thereafter to the Purchaser/Consignee.

26. Force Majeure

- 26.1 Notwithstanding the provisions contained in GCC clauses 22, 23 and 24, the supplier shall not be liable for imposition of any such sanction so long the delay and/or failure of the supplier in fulfilling its obligations under the contract is the result of an event of Force Majeure.
- 26.2 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 which is not foreseeable and not brought about at the instance of , the party claiming to be affected by such event and which has caused the non performance or delay in performance. Such events may include, but are not restricted to, acts of the Purchaser/Consignee either in its sovereign or contractual capacity, wars or revolutions, hostility, acts of public enemy, civil commotion, sabotage, fires, floods, explosions, epidemics, quarantine restrictions, strikes excluding by its employees, lockouts excluding by its management, and freight embargoes.

- 26.3 If a Force Majeure situation arises, the supplier shall promptly notify the Purchaser/Consignee in writing of such conditions and the cause thereof within twenty one days of occurrence of such event. Unless otherwise directed by the Purchaser/Consignee in writing, the supplier shall continue to perform its obligations under the contract as far as reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.
- 26.4 If the performance in whole or in part or any obligation under this contract is prevented or delayed by any reason of Force Majeure for a period exceeding sixty days, either party may at its option terminate the contract without any financial repercussion on either side.
- 26.5 In case due to a Force Majeure event the Purchaser/Consignee is unable to fulfil its contractual commitment and responsibility, the Purchaser/Consignee will notify the supplier accordingly and subsequent actions taken on similar lines described in above sub-paragraphs.

27. Termination for convenience

- 27.1 The Purchaser/Consignee reserves the right to terminate the contract, in whole or in part for its (Purchaser's/Consignee 's) convenience, by serving written notice on the supplier at any time during the currency of the contract. The notice shall specify that the termination is for the convenience of the Purchaser/Consignee. The notice shall also indicate interalia, the extent to which the supplier's performance under the contract is terminated, and the date with effect from which such termination will become effective.
- 27.2 The goods and services which are complete and ready in terms of the contract for delivery and performance within thirty days after the supplier's receipt of the notice of termination shall be accepted by the Purchaser/Consignee following the contract terms, conditions and prices. For the remaining goods and services, the Purchaser/Consignee may decide:
 - a) To get any portion of the balance completed and delivered at the contract terms, conditions and prices; and / or
 - b) To cancel the remaining portion of the goods and services and compensate the supplier by paying an agreed amount for the cost incurred by the supplier towards the remaining portion of the goods and services.

28. Governing language

28.1 The contract shall be written in English language following the provision as contained in GIT clause 4. All correspondence and other documents pertaining to the contract, which the parties exchange, shall also be written accordingly in that language.

29. Notices

- 29.1 Notice, if any, relating to the contract given by one party to the other, shall be sent in writing or by cable or telex or facsimile and confirmed in writing. The procedure will also provide the sender of the notice, the proof of receipt of the notice by the receiver. The addresses of the parties for exchanging such notices will be the addresses as incorporated in the contract.
- 29.2 The effective date of a notice shall be either the date when delivered to the recipient or the effective date specifically mentioned in the notice, whichever is later.

30. Resolution of disputes

- 30.1 If dispute or difference of any kind shall arise between the Purchaser/Consignee and the supplier in connection with or relating to the contract, the parties shall make every effort to resolve the same amicably by mutual consultations.
- 30.2 If the parties fail to resolve their dispute or difference by such mutual consultation within twenty-one days of its occurrence, then, unless otherwise provided in the SCC, either the Purchaser/Consignee or the supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided the applicable arbitration procedure will be as per

the Arbitration and Conciliation Act, 1996 of India. In the case of a dispute or difference arising between the Purchaser/Consignee and a domestic Supplier relating to any matter arising out of or connected with the contract, such dispute or difference shall be referred to the sole arbitration of an officer in the Ministry of Law and Justice, appointed to be the arbitrator by the Director General (Health Services). The award of the arbitrator shall be final and binding on the parties to the contract subject to the provision that the Arbitrator shall give reasoned award in case the value of claim in reference exceeds Rupees One lakhs (Rs. 1,00,000/-)

- 30.3 Venue of Arbitration: The venue of arbitration shall be the place from where the contract has been issued, i.e., New Delhi, India.
- Jurisdiction of the court will be form the place where the tender enquiry document has been issued, i.e., New Delhi, India.

31. Applicable Law

The contract shall be governed by and interpreted in accordance with the laws of India for the time being in force.

32. Withholding and Lien in respect of sums claimed

Whenever any claim for payment arises under the contract against the supplier the purchaser shall be entitled to withhold and also have a lien to retain such sum from the security deposit or sum of money arising out of under any other contact made by the supplier with the purchaser, pending finalization or adjudication of any such claim.

It is an agreed term of the contract that the sum of money so withheld or retained under the lien referred to above, by the purchaser, will be kept withheld or retained till the claim arising about of or under the contract is determined by the Arbitrator or by the competent court as the case may be, and the supplier will have no claim for interest or damages whatsoever on any account in respect of such withholding or retention.

32. General/ Miscellaneous Clauses

- 32.1 Nothing contained in this Contract shall be constructed as establishing or creating between the parties, i.e. the Supplier/its Indian Agent/CMC Provider on the one side and the Purchaser on the other side, a relationship of master and servant or principal and agent.
- 32.2 Any failure on the part of any Party to exercise right or power under this Contract shall not operate as waiver thereof.
- 32.3 The Supplier shall notify the Purchaser/Consignee /the Government of India of any material change would impact on performance of its obligations under this Contract.
- 32.4 Each member/constituent of the Supplier/its Indian Agent/CMC Provider, in case of consortium shall be **jointly and severally liable** to and responsible for all obligations towards the Purchaser/Consignee/Government for performance of contract/services including that of its Associates/Sub Contractors under the Contract.
- 32.5 The Supplier/its Indian Agent/CMC Provider shall at all times, indemnify and keep indemnified the Purchaser/Government of India against all claims/damages etc. for any infringement of any Intellectual Property Rights (IPR) while providing its services under CMC or the Contract.
- 32.6 The Supplier/its Agent/CMC Provider shall, at all times, indemnify and keep indemnified the Purchaser/Consignee/Government of India against any claims in respect of any damages or compensation payable in consequences of any accident or injury sustained or suffered by its employees or agents or by any other third party resulting from or by any action, omission or operation conducted by or on behalf of the supplier/its associate/affiliate etc.
- 32.7 All claims regarding indemnity shall survive the termination or expiry of the contract.

SECTION - V

SPECIAL CONDITIONS OF CONTRACT (SCC)

The following Special Conditions of Contract (SCC) will apply for this purchase. The corresponding clauses of General Conditions of Contract (GCC) relating to the SCC stipulations have also been incorporated below.

These Special Conditions will modify/substitute/supplement the corresponding (GCC) clauses. Whenever there is any conflict between the provision in the GCC and that in the SCC, the provision contained in the SCC shall prevail.

SECTION - VI LIST OF REQUIREMENTS

Part I

Sl. No.	Equipment Name	Consignee	Department	Quantity	Total Quantity	EMD Details
2						
3						
4						
5						
6						

<u>Legend:</u>
AIIA – All India Institute of Ayurveda, Sarita Vihar, New Delhi

Part II: Required Delivery Schedule:

a) For Indigenous goods or for imported goods if supplied from India:

90 days from date of Notification of Award to delivery at consignee site. The date of delivery will be the date of delivery at consignee site (Tenderers may quote earliest delivery period). For equipment like CT, MRI, LINAC, 800mA/ 1000 mA X ray (DR), Cath Lab, the delivery period will be 180 days, to delivery at consignee site.

Installation and commissioning shall be done within two weeks of receipt of the stores/ goods at site or within two weeks of handing over the site for installation, whichever is later. For equipment like CT, MRI, LINAC, 800mA/ 1000 mA X ray (DR), Cath Lab installation and turnkey work may be completed within 45 days from delivery at site or within 45 days of handing over the site for installation, whichever is later.

b) For Imported goods directly from foreign:

90 days from the date of opening of L/C. The date of delivery will be the date of Bill of Lading/Airway bill. (Tenderers may quote the earliest delivery period). For equipment like CT, MRI, LINAC, 800mA/1000 mA X ray (DR), Cath Lab, the delivery period will be 180 days from the date of Opening of LC.

Installation and commissioning shall be done within two weeks of receipt of the stores/ goods at site or within two weeks of handing over the site for installation, whichever is later. For equipment like CT, MRI, LINAC, 800mA/ 1000 mA X ray (DR), Cath Lab installation and turnkey work may be completed within 45 days from delivery at site or within 45 days of handing over the site for installation, whichever is later.

For delayed delivery and/ or installation and commissioning liquidated damages will get applied as per GCC clause 23.

Part III: Scope of Incidental Services:

Installation & Commissioning, Supervision, Demonstration, Trial run and Training etc. as specified in GCC Clause 13

Part IV:

Turnkey (if any) as per details in Technical Specification.

Part V:

Warranty period as per details in general technical specifications

Comprehensive Maintenance Contract (CMC) as per details in Technical Specification and also specified in part I above.

Part VI:

Required Terms of Delivery and Destination.

a) For Indigenous goods or for imported goods if supplied from India:

At Consignee Site(S)

b) For Imported goods directly from abroad:

The foreign tenderers are required to quote their rates on CIP Named Port of Destination Basis giving break up of the price as per the Proforma prescribed in the Price Schedule. Purchaser will place the order on CIP Named Port of Destination basis.

The shipping arrangements shall be made in accordance with the instruction of Ministry of Shipping & Transport, New Delhi, India as detailed in Annexure 1 at Section XIX.

Insurance (local transportation and storage) would be extended and borne by the Supplier from ware house to the consignee site for a period including 3 months beyond date of delivery.

Destination/Consignee details are given in Section XXI

Section – VII Technical Specifications

PHARMACY SECTION

PHARMACY SECTION

	I HARWACI SECTION				
S.NO	NAME OF THE EQUIPMENT/INSTRUMENT	SPECIFICATION			
1	Electronic Weighing balance	 Quick weighing Auto zero tracking Inbuilt battery back up with battery Auto machine caliberation with reference weight Dust proof, damp proof and battery saving mode LED Display Platform scale model Capacity 300 kg Accuracy 20.0 g Platter size: 600 x 600 mm 			
2	Electronic Weighing balance	 Quick weighing, Auto zero tracking Inbuilt battery back up with battery Auto machine caliberation with reference weight Dust proof, damp proof and battery saving mode LED Display Capacity 30 kg Accuracy 2.0 g (2000 mg) Platter size: 220 x 280 mm High sensitive model 			
3	Electronic Weighing balance	 High sensitive model Quick weighing Auto zero tracking Inbuilt battery back up with battery Auto machine caliberation with reference weight Dust proof, damp proof and battery saving mode LED Display Capacity: 200 -250 gm Accuracy: 0.001 gms Platter size: 80 mm diameter 			
6	Insect killer	 size: 14inch x 3.5 inch x 10 inch, should have 2 tubes and 2 fans, should cover area up to 150 sq.m 			
7	Herbal Chopping/cutting m/c	pilot model,GMP compliance			
8	Multifunction Vegetable Slicer/Chopper	 GMP compliance pilot model, GMP compliance Suitable for slicing & chopping of herbal roots and barks The machine is with interchangeable parts to various cut sizes. The machine should be simple and sturdy in design and easy to cleanup and maintain. The machine should have slicing and chopping attachments separately The speed of the conveying belt & chopping action of the blades can be varied to produce different cut sizes. Fitted with 1 set cutting blade. A set of blades to be 			

		provided additionally		
		Capacity: 100-200 kgs./hr.		
		GMP COMPLAINCE MODEL SUITABLE FOR EXTRACTION		
9	Pulper Machine	 OF PULP FROM AMLA All the contact parts are made of stainless steel AISI-304.the basic main frame is made of mild steel and is duly painted with rust resistant paint. After the fruits are fed in the in feed hopper, the skin and seeds of the fruit should be ejected from the other side after extraction of the pulp. The fruit is subjected to high speed rotation brushing/food grade strap assembly against an SS sieve which helps in separation of the seed/skin from the pulp. The total pulping section is of 24" length. The machine is fitted one removable SS sieve and one set of Nylon Brushes. With spare parts of brushes and sieve The machine is fitted with 1 HP motor 		
		Capacity of the pulper is 100-200 kg/hr input fruit.		
10	Juicer machines	 HELICOIDAL JUICE EXTRACTOR: Suitable for extraction of juice from various fruits like crushed ginger /shredded amla The machine incorporates latest spiral screw based design for juice extraction which ensures high yield juice recovery without making it bitter. The machine works on a continuous extraction principle. The crushed hard fruits/ citrus fruits are fed from in feed hopper and the machine extracts the juice continuously while the residue is has to be ejected from the other end. The sizes of the troughs of the spiral rod get smaller as the material goes more inward. The juice is then extracted to the storage container through the SS sieve. The machine screw pressure should be duly adjusted depending upon the hardness of the fruit being fed. The machine is easy to use and clean after use. Capacity 150-200 kg/hr (Fitted with SS Frame) Size 20" Motor: 1 HP Crompton Whole body cladded with SS-304 and all contact parts made up of SS-316 Extra perforated sieve drum made from SS-316 quality 		
11	Herbal drum washing m/c	 WASHING MACHINE SUITABLE FOR CRUDE HERBS/ SEEDS/FRUIT/ LEAFY VEGETABLE/GINGER/LEMON ETC Well designed to thoroughly clean and wash multiple Crude herbs/fruits/vegetables—like—Ginger, Lemon, (Citrus fruits) The washer is made of SS 304, confirms to all sanitary norms. The washer is designed to handle diverse types of fruits 		

		 and vegetables without damaging the surface while thoroughly cleaning them. Equipped with high pressurized blowing unit with blower air grids to produce strong water agitation which tumble washes different types of fruits & vegetables including leafy, root vegetable. Crude herbs The Crude herbs, fruits and vegetables when passed through water turbulence should thoroughly washes the dirt off them. After the Crude herbs, fruits and vegetables are washed, they should be picked up by an uplift conveyor where they are again washed with secondary wash system fed by fresh water infeed. Out feed conveyor fitted with a specially designed SS slats for conveying fruit/ vegetable onto the next stage after washing. Fitted with 1 HP geared motor on takeoff conveyor with AC variable drive of make Siemens. This facilitates adjustment to various quantities/ batch being washed. The washer should be fitted with water recirculation system with inbuilt filtration to enables the water to be reused. It should be fitted with 2 stage filtration system for cleaning of water of external mud, leaves and then the clean water is recirculated back to the main wash tank.
11	Hydraulic pressure trolley	Standard Size, make & quality,GMP compliance
12	Storage container	 Standard Size, make & quality GMP compliance non corrosive SS)and volume 25 /50/100kg(Its)
13	Storage racks	 Stainless steel -304 racks made of 18 swg sheet supported by SS angles and brackets with 05 perforated shelves in it All the racks should have 2" collar on three side Front side should have been moulded down Size: 05 shelves with dimension of 3' x 18" x 6'
14	Pallates	Standard Size, make & quality,GMP compliance

- All machines & equipment shall be WHO –GMP/GLP compliance model,
- All machines & equipment shall be fit into section which is 8.6 feet height
- All Equipments individually costing more than Rs.25,000/- to have DQ, IQ & OQ , Fat, MOC Certificate, G.A Drawing of the machine, wiring diagram will be supplied with the machine.

Bidders are requested to quote for all the items under sections. Bids will be evaluated on Package basis / Section wise basis. All bidders must quote accordingly, otherwise bid will be summarily rejected.

NOTE

Bidders are requested to visit AIIA, Sarita Vihar, New Delhi to assess the site condition of Equipment placement and installation in this Section. Bidders must take into consideration in its bid costs to be incurred for any additional work viz. Electrical cabling of suitable ratings, Electrical points of suitable ratings, water connection, water drainage, plumbing & allied requirement for the equipment etc. required for successful installation, commissioning and running of the Equipment and the "All inclusive lump sum price" should include all such costs.

POWDER SECTION

POWDER SECTION

S.NO	NAME OF THE	SPECIFICATION
	EQUIPMENT/ INSTRUMENT	
1	Herbal Disintegrator Machine	Standard GMP model Contact part with SS 316, It is high powdered machine for grinding / cutting hard materials into smaller fragments / pcs. With suitable power 3-phase motor. Approx. Output capacity: 75-100 kg/hr. Body size:18 " dia Motor: 7.5 HP/3 Phase With all accessories as DOL starter etc
2	Mini pulverizer	npliance model The unit is to reduce the size of the herbs / medicines powder etc. All contact parts of the machine are made of stainless steel 316 quality. The machine is covered with stainless steel sheet and is fitted with 3 phase motor, starter etc. The unit will also be provided with provision for affixing mesh of different size, as per requirement and
		 nature of material to be pulverized. Output capacity: 25 kg/ hour Chamber size: 09" diameter Motor: 2-3 HP/3 phase GMP COMPLIANCE model All contact parts of the machine made of stainless steel 316 quality.
3	Cyclone type pulverizer	GMP Compliance model, The machine is driven by motor of
		Three Phase, with starter etc. The unit is shall be provided
		with provision for affixing mesh of different size as per
		requirement and nature of material to be pulverized. The
		Pulverizer shall reduce the powder size upto 100 # mesh.
		 Output capacity: 75-100 kg/hour Chamber size: 10" x 06" 05 HP, three phase motor All contact parts & body covering of the machine are with St. Steel - 316 quality. GMP model complete with Foundation Frame & Foundation Pad.
4	Powder and mass mixer	 GMP model GMP compliance model Capacity: 100 kg 5 HP motor/3 Phase/440 volts All contact parts made out of ss-316 quality Two mechanical seal ends to prevent outside lubricants from entering into mixing chamber. Paddles on the shaft so arranged, as to give thorough and uniform mixing.

device, to prevent accident. Complete with motor, gear box and starter etc. GMP compliance model, System shall fit. Powder section of 8.6 PART - I CLEANING , WASHING AND DRYING SYSTEM FEED MATERIAL : Herbs and Roots FEED SIZE : Max. 150 MM long and dia < max 1" FINESS ACHIVABLE : 25 MM and Less CAPACITY : 20 To 25 Kgs Per Hr. MOITURE CONTAIN : Max 8 to 10 % a) FEEDING BELT CONVEYOR (For feeding uniformly in to Ro Sieving machine) Made from M.S. Sheet as per our design with Feed Hopper and Motor and Drive Accessories like Chain and Sprocket 1HP Geal by Sieving M/c (For Remove the dust from out side herbs mat Made from SS 304 Rotating flight with fitted the 1MM screen v by SS304 Body. Separate The fine dust and material fine dust collect bot rotary sifter and Clean material be discharge end side. 3HP Ge. With MS blower with 2hp with open type dust collector. c) Washing System d) BELT CONVEYOR (For feeding uniformly in Drying M Made from M.S. Sheet as per our design with Feed Hoppe Geared Motor and Drive Accessories like Chain and Sprocked Gear motor. e) DRYING SYSTEM:- Made from SS 304 Batch type dryer with rotating with hopulsing arrangement with 7.5 hp motor. PART II GRINDING, CONVEYING, SIEVING, BLENDING AND IDETECTION SYSTEM
Automatic Herbal Cleaning, washing, Drying,Grinding, shifting,Mixing, metal detection system for powder Section Section Section Section Section Section Section Made from M.S. Sheet as per our design with Feed Hopper and Motor and Drive Accessories like Chain and Sprocket 1HP Gea b) Sieving M/c (For Remove the dust from out side herbs mat Made from SS 304 Rotating flight with fitted the 1MM screen v by SS304 Body. Separate The fine dust and material fine dust collect bot rotary sifter and Clean material be discharge end side. 3HP Ge. With MS blower with 2hp with open type dust collector. c) Washing System d) BELT CONVEYOR (For feeding uniformly in Drying M Made from M.S. Sheet as per our design with Feed Hopper and Motor and Drive Accessories like Chain and Sprocket 1HP Gea b) Sieving M/c (For Remove the dust from out side herbs mat Made from SS 304 Rotating flight with fitted the 1MM screen v by SS304 Body. Separate The fine dust and material fine dust collect bot rotary sifter and Clean material be discharge end side. 3HP Ge. With MS blower with 2hp with open type dust collector. c) Washing System d) BELT CONVEYOR (For feeding uniformly in Drying M Made from M.S. Sheet as per our design with Feed Hoppe Geared Motor and Drive Accessories like Chain and Sprocket The Made from SS 304 Batch type dryer with rotating with hoppulsing arrangement with 7.5 hp motor. PART II GRINDING, CONVEYING, SIEVING, BLENDING AND ID DETECTION SYSTEM
Cleaning, washing, Drying, Grinding, shifting, Mixing, metal detection system for powder Section Section PART - I CLEANING , WASHING AND DRYING SYSTEM FEED MATERIAL : Herbs and Roots FEED MAX 150 MM long and dia < max 1" FINESS ACHIVABLE : 25 MM and Less CAPACITY : 20 To 25 Kgs Per Hr. MoiTURE CONTAIN : Max 8 to 10 % a) FEEDING BELT CONVEYOR (For feeding uniformly in to Roots Roots FEED MAX 8 to 10 % a) FEED MAX 150 MM long and dia < max 1" FINESS ACHIVABLE : 25 MM and Less CAPACITY : 20 To 25 Kgs Per Hr. MoiTURE CONTAIN : Max 8 to 10 % a) FEEDING BELT CONVEYOR (For feeding uniformly in to Roots Roots Peeding uniformly in to Roots Roots Peeding uniformly in to Roots Roots Peeding uniformly in to Roots
A. TECHNICAL SPECIFICATION FEED MATERIAL: Herbs and Roots FEED SIZE: Max. 50 MM and Less FINESS ACHIVABLE: 90 to 95 % Passing Through 30 To 40 me CAPACITY: 20 to 25 Kgs Per Hr MOITURE CONTAIN: Max 6 to 8 % a) FIRST STAGE GRINDING SYSTEM with chopper. Hammer Mill Model + Pneumatic Conveying System + Ope Dust Collector and Rotary Air Lock Valve • Mill in M.S with SS 304 lining Hopper and V- Pulley • MS Mounting Structure for Mill and Motor • Grinding Media Parts as Liners made from EN -31 and Han made from EN - 31 Hardening. • Screen. • Bends, Ducting and Piping up to Cyclone Collector in SS 30 • Cyclone top shell in SS Bottom Cone in SS Construction. • Open type Dust Collector in M.S. with set of Filter bags fror filter cloth poly prop. Cyclone To dust collector pipe line in

Air Swept Mill Model Pneumatic Conveying System + Open Dust Collector and Rotary Air Lock Valve

- Mill in M.S with SS 304 LINING Hopper and V- Pulley
- MS Mounting Structure for Mill and Motor
- Grinding Media Parts as Liners made from EN -31 and Hammers made from EN 31 Hardening.
- Wizard plate MS.
- Bends, Ducting and Piping up to Cyclone Collector in SS
- Cyclone top shell in SS Bottom Cone in SS Construction.
- Open type Dust Collector in M.S. with set of Filter bags from special filter cloth poly prop. Cyclone To dust collector pipe line in MS construction.
- Rotary Air Lock Valve Made from CI Body and SS Rotor with "FLAIR" type with Mounting Plate and Gear box and Electric Motor
- Anti Vibration Mounting Pads for Mill

c) GYRO VIBRATING SCREEN of 900 MM (3 FEET) DIAMETER

For Sieving Final products and separate oversize

- Machine with Single Deck arrangement with top cover
- All Deck made from SS Sheet and Clamp in SS
- Deck Mounting Base made from SS Plate
- Suitable SS Screen with SS Frame duly fitted 40 mesh
- With anti blending system with extra mesh screen 30 mesh
- Sp. Vibratory Motor

d) INTERMIDIATE SCREW COVEYOR

Suitable to feeding in to Storage Hopper from Gyro Vibrating outlet

- TUBLER Type Trough Made from SS length of 2 mt
- Suitable Mounting Structure made from Channel and Angle
- Collection Hopper made from SS
- Geared Motor of standard make
- Sprocket, Chain and Guard

e) RIBBON BLENDER CAPACITY 250 Liters 3 HP DRIVE.

- 'U' Trough Made from SS 3mm th and Side Plate Lining with MS 8 mm th With 3 mm th SS lining in side.
- Top Covered with SS Plate 2mm th and Discharge end Slide type gate
- Suitable Mounting Structure made from Channel and Angle M.S.
- Gear Box and Motor with Chain Sprocket and Guard

f) INTERMIDIATE SCREW COVEYOR

Suitable to feeding in to Metal Detector from Ribbon Blender

- TUBLER Type Trough Made from SS
- Top Covered with SS Plate
- Suitable Mounting Structure made from Channel and Angle
- Collection Hopper made from SS
- Motor of standard make
- Sprocket, Chain and Guard

g) GRAVITY FEED METAL DETECTOR Model GFMD - 100 (ANALOG)

- In feed hopper
- Particle detect 0.7 mm Ferrous, 1 mm Non Ferrous and 1.2mm SS
- Suitable Mounting Structure made from SS
- To way diverter and Audio visual on detection of Metal

		 h) CONTROL PANEL Suitable to control complete Plant Starter, Main Switch and A Meter Volt Meter, Push Buttons and Indicators Control Panel duly Powder Coated
6	Vibrio sifter	The machine Drive is totally enclosed by circular cladding. Drive mechanism through specially designed vibrating motor working on 1440 RPM.415 V, 3phase AC supply with adjustable vibrating petals directly mounted on the top plate which is rest on spring pads to achieve continuous vibration. The vibrating energy screen unit consisting of circular pre-tightened screen mounted on the top plates. The top weight petals caused vibration in the horizontal plane which causes the material to move across the screen towards the Perry. The lower weight petals act to till the machine which caused vibration in the vertical tangential axis. The angle of lead of the lower weight with relation to the upper weight provides variable control of the screening pattern. Technical Specifications: Screen Size – 750 mm Vibro Motor Non-FLP (special purpose Vibration type) – 0.5HP, VPM 1440 Output depending upon mesh size. SS 316 contact parts 30" GMP Model with Single deck: With S.S316 Silicon molded sieve, S.S. bracket & P.U. wheels with Brakes. DQ, IQ & OQ, Fat, MOC Certificate, G.A Drawing of the machine, wiring diagram should be supplied with the machine.
7	Storage bins	100 liter capacity316 SS,standard make

- All machines & equipment shall be WHO –GMP/GLP compliance model,
- All machines & equipment shall be fit into section which is 8.6 feet height
- All Equipments individually costing more than Rs.25,000/- to have DQ, IQ & OQ , Fat, MOC Certificate, G.A Drawing of the machine, wiring diagram will be supplied with the machine.

Bidders are requested to quote for all the items under sections. Bids will be evaluated on Package basis / Section wise basis. All bidders must quote accordingly, otherwise bid will be summarily rejected.

NOTE:

Bidders are requested to visit AIIA, Sarita Vihar, New Delhi to assess the site condition of Equipment placement and installation in this Section. Bidders must take into consideration in its bid costs to be incurred for any additional work viz. Electrical cabling of suitable ratings, Electrical points of suitable ratings, water connection, water drainage, plumbing & allied requirement for the equipment etc. required for successful installation, commissioning and running of the Equipment and the "All inclusive lump sum price" should include all such costs.

TABLET SECTION

TABLET SECTION

S.N	NAME OF THE	SPECIFICATION
3.IV	EQUIPMENT/	SPECIFICATION
	INSTRUMENT	
1	Electric Hot	24 Tray capacity Tray specifications
	air Tray dryer	 with 6 kW heaters
		1 HP/3 phase motor
		Double walled body
		Stainless steel (316) covering of inside chamber as well as outer
		body as per GMP compliance
		Housing, insulated with heavy fibre glass wool
		With special U type heaters, air circulation fan, thermostat, panel
		box etc.
		Digital temper controller
		Digital timer with cutoff system
2	Paste kettle	STARCH PASTE KETTLE (ELCETRICALLY HEATED)
		WHO GMP compliance Jacketed, Insulated, Tilting type with stirrer.
		Capacity: 25 liters
		GMP model
		inner wall of the vessel made from 14 SWG SS 304
		Jacket of 4 mm M. S. Sheet with Insulation of Glass Wool and
		covering by 18 S.W.G Stainless Steel Sheet of 304 Quality
		Vessel - oil heated with electrical heater of 6 kw. The area statically a a refer blad.
		Thermostatically controlled. Unit complete with miver mounted on S.S. channel stand.
		Unit complete with mixer mounted on S.S. channel stand. Should be designed with slow speed bester retating at FO/40 rpm.
		 Should be designed with slow speed beater rotating at 50/60 rpm fitted with reduction gearbox and 1 HP 3 Phase motor.
		Titling movement of the vessel should be hand operated.
		 Vessel mounted on S.S tubler stand.
		 Provided with inlet and outlet provision for jacket of oil and water.
		 Lid should also be provided (half in 2 No. or slit type with hinge
		lever) with S.S electrical panel fitted with digital temperature
		controller / indicator instead of thermostat
3	Rapid mixer	Rapid Mixer Granulator 60 -100 Ltrs ,
	granulator	Suitable for wet and dry granulation process,
		WHO GMP Compliance model,
		all contact parts of SS-316,
		horizontal type,
		PLC controlled
		Additional quote may be for with touch screen with colour display
		for Complete Manual control panel in case of failure of PLC
		On line comill arrangement with VFD
		Suitable power / 3 phase elec. motor and DETAILS DESCRIPTION
		Machine will be complete with Mixing Bowl, Mixing Blades, Granulator,
		Pneumatic Discharge, Motor, Gear Box, Operating Panel and the Control
		Panel.
		MIXING BOWL :

The Mixing Bowl is cylindrical with a large diameter and flat base. The Top portion of the bowl is conical in shape to assist circulation of cohesive powders.

The Bowl is fabricated from S.S. 316 Quality Stainless Steel with all internal and external surfaces polished to mirror finish.

TOP LID

Pneumatically Openable type lid consists of charging hole, air filter and special type silicon gasket.

• MIXING BLADE

Mixing blade consisting of three Nos. specially designed for intense mixing. The angles of the blades are such that half blades lift the material and full blade pushes the material. Continuous action of this with the different ingredient immensely mixes thoroughly with homogeneously. Mixing blade assembly is mounted on main shaft with separate bearing housing which fully eliminate any chance of cross contamination of product with any lubricants. The upper portion of the housing contains specially designed Teflon seal along with air purging facility. Lower stage housing contains bearing alongwith oil seals that make it completely leak proof.

BEARING HOUSING

The bearing housing of the main shaft connected to gearbox by means of heavy-duty chain coupling. Chopper blade assembly consists of a separate baring housing coupled to motor by means of flexible coupling, with Teflon impregnated gland packing and air seals.

• **GRANULATING BLADE**

A high speed Granulator is inserted horizontally through the wall of the bowl to assist blending of powder and to brake the lumps of the products in to granules of required sizes.

DISCHARGE VALVE

Machine has a side discharge outlet with pneumatically operated. The discharge valve is exactly matching the profile of the intervene bowl with perfect sealing arrangement. Pneumatic cylinder housing is specially designed with swivel type arrangement, which helps for easy cleaning. Safety interlocks are provided to discharge valve as well as top lid with limit switches.

MACHINE BASE

Rigid Machine base frame made from M.S. Square pipe is designed to accommodate the mixing bowl and the control panel. The motor V belt drive and reduction gear are also housed in the frame. The machine base is totally enclosed and removable flush type S.S give access to motor gear box and belt drive inside and machine base. Removable S.S. Cover finished to mirror finish on all side of the machine base frame. Inside of the M.S. base frame duly epoxy painted to avoid any rusting. The bottom of the base frame duly covered with M.S. Sheet. So that any oil or dust from belt should not fall on the floor.

ELECTRIC CONTROL PANEL

MAIN PANEL

All the main Circuit like Switch gears, Relays, MCBs etc. will be contained in a S.S. Panel box and kept in Non Flame Proof area.

PROCESS TIMER

Process Unit with programmable digital timer, auto mode indicating lapsed/balance time etc.

OPERATING PANEL

An Operating Panel mounted near the mixing bowl for the easy operation in the case of NON FLP MOTOR. In FLP only Flame Proof Operating unit provided near the Bowl with auto manual switch, Emergency stop and push buttons for main motor, chopper motor Discharge valve open and close, ammeter for main motor and chopper motor.

PNEUMATICS SYSTEMS

The machine is supplied with duly required pneumatic systems of **SATANDARDS** Make has to ensure, supply of oil free compressed air, also free from any other possible impurity, which may contaminate the product. Air filter and Air water separator are also provided with the machine. Pressure regulator is provided to regulate the desired air pressure. The system is suitable to accept an Input air pressure of 7kg/cm2 to be terminated at ½" "BSP" terminal. Air lubricator is provided to lubricate solenoid valves and pneumatic cylinders is incorporated in the system.

PRESSURE SWITCH

A Pressure Switch is incorporated in the Pneumatic circuit to ensure that unless required minim air pressure is available in the system the machine cannot be started. And once the machine starts and if drop below pre-set the value the machine stops immediately. In case the Flame Proof Machine the pressure Switch is fitted in main panel.

All M.S. parts will be cladded with SS 304Q sheet and all SS parts will be polished to smooth surface.

 DQ, IQ & OQ , Fat, MOC Certificate, G.A Drawing of the machine, wiring diagram will be supplied with the machine

4 Fluid bed dryer, with Trolley

F.B.D. GMP Model (Electrical Heating), Fluid Bed Dryer are required for drying wet Herbal powder, granules Capacity: 30-40 kg with S.S.316 contact parts and non contact parts S.S. 304, Fully Automatic bag Shaking device, Auto Bag lowering system, Two stage 20 & 5 micron filtration, S.S. 316 silicon molded sieve for Product container, On line sampling device, Safe earthing arrangement, Transparent Silicon Inflating tube system for top of the product container, Bottom of the Product container & Finger bag sealing, Butterfly valve for Inlet and Exhaust damper with rotary actuator, P.U. wheels etc, Spray Ball for CIP, Light Glass & Sight Glass etc.

Details Description

Body: Single Vessel i.e. Filter bag chamber & Retarding chamber made out of 3 mm thick In S.S.-316. The top dish made out of 3 mm thk. S.S.-316 quality. The cylindrical chamber is provided with inspection window with Toughened Glass. Filter bag made out of P.C. Satin cloth mounted on movable hanger. Bottom of the Filter bag is fixed in SS fixing ring & provided with inflating tube which when inflated Seals filter bag with inner surface of filter bag housing. No product now can travel in between the filter bag and the chamber walls. One inflating tube is provided for Lifting chamber and another for retarding chamber. All the inflatable gaskets are provided with pressure gauge, Electropneumatic Switches and also interlocking system with the unit. I.e. if unit is not sealed properly, the Blower motor-should not start. The Exhaust duct is provided with butterfly valve with gasket & pneumatically operated Rotary actuator and this valve will close fully at the time of filter bag shaking cycle. A positive ear thing is provided it means that the dryer will not start with any ear thing Fault. Height of the Expansion chamber is more enough to ensure proper heat transfer between product and hot air. Inlet air ducting will be fitted rear side of the chamber.

A.H.U.: The rear chamber is made out of 2mm thk. S.S.-304 in this chamber. 20 micron washable pre-filter followed by 5 micron, Air

Filters And Steam Radiator/Heaters are fixed at rear side. All Pneumatic Controls are of "Camozzi" (Italy) make

Plenum Chamber:- It is made out of 3 mm thick. S.S.-304 and provided with dished bottom. Water Drain plug-has to be provided. S.S. Butter fly valve is provided to control inlet Air and also to isolate unit from inlet air preparation unit and valve is provided with Cylinder And will remain close at the time of shaking or when the unit is not in operation.

Product Container :-Conical shape & made out of S.S.-316, 3 mm thk. It is provided with container for observation. The container mounting trolley is made out of S.S.-304 Round pipe and provided with 4 Nos. S.S. Castors with P.U.Wheels.The container .Is also provided with on line sampling port to draw the sample without stopping the dryer. The container can be tilted for emptying the product.

Explosion Vent: - Horizontal Explosion relief opening fixed with Fike S.S. 304. Is provided in rear side of filter bag chamber. It is tested at 0.2 K.G./cm2 pressure.

Blower:-The blower housing is made out of S.S. –304 4mm thk. With 15 H.P. "STANDARD make Motor/ equal. Impeller is made out of S.S.-304 and Dynamically & statically balanced. Impeller is centrifugal type with backward curved blades. Blower is to be installed in remote area to avoid noise level in Process room.

Fluid bed granulator Or processor-

Machine chamber can be made longer to fix in future top spray system as required in Processor or Fluid bed granulator. height is required . Spraying nozzles, Solution tank, Peristaltic pump with PLC has to be done before dispatch. Customer can use the machine as dryer and if required in future machine can convert to processor or Fluid bed granulator by adding Peristaltic pump, Solution tank and spray nozzles.

Granule Bed thumping device: With the help of PLC One can get the bed thumping effect where by quickly closing inlet BFV (rotary actuator) the entire mass of the Product Container lifted momentarily and thus mass movement inside the chamber can be generated.

Control Panel ;- S.S.-304 (Manual)

R,Y,B Lamp

"L&T" make contactors and relays

Amp. & Volt meter

Digital standard make Temp. Controller

Digital standard make Temp. Indicator

Digital standard make Process Timer

Digital standard make Shaking Timer

Digital standard make Cooling timer

Heater On Off

MCB

Single phasing preventor

Earth fault relay

Emergency push button

Main switch

Safety:-

- 1. Machine can not start without proper earthing.
- 2. Blower stops if the air pressure is low below set value.

		4. Gasket and filter bag seaDQ, IQ & OQ , Fat, MC	duct container top and bottom aling gasket not sealed properly. OC Certificate, G.A Drawing of the machine, supplied with the machine	
5	Multimill	MULTI MILL WHO GMP Co		
		It is a portable unit with sturdy construction and used for granulation & pulverising. It is provided with the Rotor having 12 nos. of knife blades and 2 nos. of scrapper. The screen of suitable mesh is mounted outside the rotor. All contact parts are made out of S.S. 316 quality and mirror polished. It works on 3 HP ISI make motor. The machine is supplied with one screen set. TECHNICAL SPECIFICATIONS: Motor: 3 HP Speed: 2800 RPM. Scrapper: 2 Nos. Blades: 12 Nos Capacity 50 kg/ hour MP model Vertically mounted 3 HP motor, which drives the shaft through bearing housing. The rotor with 12 Nos. swinging type knife blades and 2 Nos. scrapper blades. All contact parts made out of St. Steel – 316 quality. The machine should be complete with motor, DOL starter with reversible switch and one no. stainless steel sieve.		
6	Octagonal	Octagonal Blender Cap- 1	50 Ltrs. GMP Model :-(both side drive)	
	blender	Octagonal blender made ou welded. Rigid stand provid safety guard For machine, l	et of SS316 quality. All joints are Argon arc ed from SS-316 square pipe. Butterfly valve, t shall be made out of S. S. 316 qlty. All parts made out of S.S. It is mounted on	
		Gross Volume: Working Volume:	300 L 200 L (100 Kg of product with 0.5 gms/cc Bulk Density)	
		Material of Construction 1. Product Contact Parts: 2. Other Parts: Finish 1) Internal: 2) External: Blender Size Blender RPM: Discharge Port Size:	SS 316 SS 304 Covered / Cladded 240 Grit Mirror. 180 Grit Mirror. 4 to 25 with VFD(Variable Frequency Drive) 6" dia. Butterfly Valve.	
		Gaskets: Baffles:	Silicon Provided	
		Body Thk:	2.5 thk	

		Safety Guard:	SS Pipe guard will be provided with limit/proxy switch, if guard is open then the Blender will not run
		Drive Unit 1. Motor:	Crompton or standard Make, 2.0 HP / 1440 RPM / TEFC Foot mounted
		Reduction Gear Box: Radicon Size: Utility Required.	CPEC make Ratio 50: 1 287
		Power Supply: Total Load: Cable Size: Electrical Controls /Control Panel:	415 V/ 50 Hz / 3 Ph / A.C. Max – 1.5 kw 2.5 sq. cm / 4 core copper Overload Relay, Contactor, standard make, Button–On & Off / Inch, RYB Indicators, Timer–
		mm:	Radex – 0 to 60 min. range. 1565 W x 2200 D x 2460 H
		Free Space required: Nett. Wt. Approx.: With Digital Timer:	2065 W x 2700 D x 2960 H 400 Kg.
		VFD(Variable Frequency D Conical Adaptor with 'U' C Drive Mechanism: Direct c	lamp
		 Single Phasing preven Mechanical Jacking Tr 50 L Charging Drum. (Charging system Mechanical 	lity (Mitsubishi), (Optional) hter, folley. (Optional)
			C Certificate, G.A Drawing of the machine, oplied with the machine.
7	Vibrio sifter	mechanism through special 1440 RPM.415 V, 3phase A directly mounted on the tachieve continuous vibrationsisting of circular pre-titation to make the talk causes the material to move lower weight petals act to the vertical tangential axis.	tally enclosed by circular cladding. Drive ally designed vibrating motor working on AC supply with adjustable vibrating petals top plate which is rest on spring pads to ation. The vibrating energy screen unit ightened screen mounted on the top plates. Seed vibration in the horizontal plane which we across the screen towards the Perry. The still the machine which caused vibration in The angle of lead of the lower weight with at provide, variable control of the screening

		 Technical Specifications:- Screen Size – 750 mm Vibro Motor Non-FLP (special purpose Vibration type) – 0.5HP, VPM 1440 Output is depend upon mesh size. SS 316 contact parts 30" GMP Model with Single deck: With S.S316 Silicon molded sieve, S.S. bracket & P.U. wheels with Brakes. DQ, IQ & OQ, Fat, MOC Certificate, G.A Drawing of the machine, wiring diagram-to-be supplied with the machine. Also quote rate for sieve of different size
8	Pills machine (Motorized)	 GMP model Automatic To be able to make any size of pills from size 4mm to 12 mm. To consists of 4 SS rollers duly Teflon coated to avoid sticking of material to rollers. Two rollers press and cut the sticks, which comes out of the machine. These sticks are fed again in the pills making rollers and instantly to form round pills. Machine is powered by .25HP single-phase motor duly wired. Whole body of the machine is to be covered by SS and supplied with collecting trays. Appx capacity 5-10 Kgs per hour.
9	Rotary RSP 16 stn "D" Tooling	 Square GMP model Construct completely of stainless steel No. of stations:16 Tooling: D Tablet diameter (max) in mm: 25 Depth of fill (Max) in mm: 20.5 Max. thickness of tablet 7/16" (11.10 mm) Tabets/hour:25000-30000 Turret RPM (Max):36 Max. compression in ton:10 Electric motor: 02 HP, 03 PH, 960 RPM Machine size in mm: 820 x 820 x 1930 Net weight in Kg.: 950-1050 Gross weight in Kg. 1200-1500 Case size in mm 1295 x 1219 x 1880 Core rod arrangement for polo type tablet Anti-vibration mounts Multi-tooling turret Force feeder Upper punch penetration Electronic Digital Tablet cum RPM Counter Inter lock Switches to all Guards. Double Sided lifting cams Lower Guard of polished Stainless Steel & Upper Guards of Acrylic Material

		 Aluminum Turret Guards Imported needle roller bearing provided at the bottom of turret. Effective Dust Extraction Nozzles Variable Speed pulley One shot Lubrication System. Anti vibration mounts Reverse direction motion protection is provided to avoid accident. Available with AC variable Drive & Electromagnetic Clutch (Optional) Available with Pre-Compression attachment (Optional) Force Feeder Attachment (Optional) Provided with limit switch for safety purpose IQ, OQ, DQ documents and test certificates
10	Tablet inspection Belt	 GMP model 6,000-10000 tabs per hour stainless steel complete body, S.S316. Hopper, from which tablets fall on a Vibrator that removes chips and dust from the tablets and feed them on eight (8") inches wide belt for one Operator to inspect one side of the tablet. Tablets should automatically pass on another belt for second Operator to inspect the other side of the tablets. Electrical Panel to operate the machine. intensity of the vibration of the Vibrator can be varied to ensure smooth falling of tablets on the belt Speed 30 ± 1 RPM of the belt. Suitable for 230 volts single Phase (standard make geared motor). A. C. 50 Hz. & as per GMP Standard. Variable speed controller with digital indication to control the speed of the belt.
11	Coating pan	 AUTO-COATER – 36" (GMP MODEL) Pan and all contact parts made out of stainless steel 316 quality GMP model 36" pan size 3-phase/suitable HP Complete with suitable motor and hot air blower Suitable starter, indicator and thermostatically controlled heaters, Variable pulley, for controlling of r.p.m of moving pan Digital temper controller cum indicator fitted in panel box VFD (Variable frequency drive) A.C. speed control by electronic speed controller system PERISTALTIC PUMP (STANDARDS MAKE) digitally controlled high accuracy dispensing pump STANDARDS makes SPRAY GUN (All SS construction) WITH SUITABLE Capacity IN RESPECT OF COATING PAN Fitted with nozzle of SUITABLE SIZE IN RESPECT OF COATING PAN PLC with Color Touch Screen Actuated operated PID controlled inlet & outlet DAMPER. Auto

Damper Position controlling device fitted with SS Duct lines, for monitoring the condition of Airflow in the Pan cabinets to facilitate quicker drying at lower Temperature

DETAILS DESCRIPTION OF THE COATING UNIT

COATING ZONE:

Horizontal, cylindrical vessel of size 915mm Dia. (Suitable for 60-90Kg. batch) having welded on torispherical dished ends at both sides. The shell body is perforated properly (triangular pitch) to ensure optimum hot air inlet. The pan having a frontal opening for easy loading and unloading of tablets/caplets.

The pan driven by 2HP flameproof motor through suitable reduction gearbox and variator for variable rotational speed 1 – 15 RPM, with arrangement of speed display through MMI.

Special type baffles with proper spacing are provided inside the pan for exposing all the surfaces to get uniform coating and tablet/caplet (rolling) turning while rotating of the pan.

The coating pan is enclosed within double walled cubical, totally enclosed to ensure leak proof operation, provided with side doors duly insulated / properly sealed with food grade quality rubber with appropriate shore hardness, locking device on both side and rounded interior corners which helps easy cleaning and maintenance of coating pan.

A luminous electric lamp is fitted on the top wall at the cubical above the coating pan to ensure sufficient effulgent to the working zone.

SOLUTION PREPARATION AND SPRAYING ZONE:

Vertical, cylindrical vessel of capacity 75 liter having welded on flat bottom and detachable type flat top cover, fitted with top entry, vertically mounted, off centered agitator driven by F.H.P. flame proof geared motor / Pneumatic Motor.

A suitable pump for precise and rapid priming facility for proper and accurate dosing of solution, supply shall be complete with solution transfer tube.

Highly sophisticated and efficient indigenous make 3Nos. spray gun completely free from choking problem, controls both the application rate and the droplet size for all type of coating.

Depending on shape, size and pattern of rolling of tablets, the spraying angle can be adjusted with the device within spray gun.

HOT AIR GENERATION AND HANDLING UNIT:

Air heating arrangement by shell and finned tube type (extended surface area) multi pass heat exchanger providing adequate heat transfer area to ensure the temperature of air.

The unit shall be completed with Steam inlet and condensate outlet connections.

Pre-filter of 20 micron is fitted at the inlet of air heater.

Fine Filter of 5 micron shall be fitted after heater.

1No. Hepa Filter of 0.3 Micron is fitted at the outlet of Hot Air from heater.

For inlet air, a centrifugal blower of 1300CFM driven by 3HP NFLP Motor is provided for delivering the sufficient quantity of air for heating.

For exhaust system / withdrawal of air from coating zone, a centrifugal blower of 1450CFM driven by 5HP NFLP Motor is installed

		1
		to create differential pressure, which drives out the air. SS duct lines are provided for hot air inlet and for exhaust air. CONTROL PANEL: Automatic tablets coating system is operated through a user-friendly integrated control panel suitable for manual and automatic operation. The panel includes PLC of STANDARDS make The material of construction of the panel shall be of AISI 304Q. The panel having the following features: Automatically controlled process parameters with indication and display such as: -Inlet / Outlet Air TemperatureBED / cabinet temperature.
		Pan RPM.
		Spray on time.
		Automatic stoppage of spray in case of:
		Pan rotation stops.
		Exhaust blower stops.
		Hot air blower stops.
		Atomization air pressure falls below set point. POWER PANEL:
		MS power panel duly powder coated comprise of contactors, relays, fuse links with base, transformers, ON-OFF switch, indicator lamps etc. Proper ferruling and color-coding will be provided for the wirings. Power panel will also include pressure sensor and solenoids for control devices.
12	Colour tank	10 LITER CAPACITY with lid ,
		S S 304 also may be quoted for SS 316 quality
13	Industrial	Suitable strirrer for 10-25 liter stirring,
	stirrer	GMP compliance model,
		standards make,
		flame proof design
14	Hand filling	Suitable for filling 300 capsules at one time
	cap machine	Should be mechanically hand operated
		 all contact parts made out of 316 stainless steel.
		Suitable for filling any one size capsule of 0 No., 1 No. & 2 No.
		capsule as required.
		The unit should be supplied with 3 Nos. stainless steel loading plates powder appeader powder dispenser brush etc.
		plates, powder spreader, powder dispenser, brush etc.
		Output Capacity: 60,000 - 70,000 capsule / shift.

16	Capsule autoloader	 Standards WHO GMP compliance model Automatic 300-holes capsule loading machine equipped for any one size of capsule with hopper, 0.25 HP single phase motor 1400 rpm and suitable gear box. The Complete body of the machine cladded with St. Steel sheet
----	-----------------------	--

- All machines & equipment shall be WHO –GMP/GLP compliance model,
- All machines & equipment shall be fit into section which is 8.6 feet height
- All Equipments individually costing more than Rs.25,000/- to have DQ, IQ & OQ , Fat, MOC Certificate, G.A Drawing of the machine, wiring diagram will be supplied with the machine.

Bidders are requested to quote for all the items under sections. Bids will be evaluated on Package basis / Section wise basis. All bidders must quote accordingly, otherwise bid will be summarily rejected.

NOTE:

Bidders are requested to visit AIIA, Sarita Vihar, New Delhi to assess the site condition of Equipment placement and installation in this Section. Bidders must take into consideration in its bid costs to be incurred for any additional work viz. Electrical cabling of suitable ratings, Electrical points of suitable ratings, water connection, water drainage, plumbing & allied requirement for the equipment etc. required for successful installation, commissioning and running of the Equipment and the "All inclusive lump sum price" should include all such costs.

ARK/EYE DROP SECTION

ARK/EYE DROP SECTION

S.NO	NAME OF THE EQUIPMENT/INSTRUMENT	SPECIFICATION
41	Distillation assembly	 10-25 liter Electrical steam operated ss 316 Should designe such a way as it may Also be works with steam operation ss 316
42	Storage vessel	 vessels made out of stainless steel sheet of 304 quality, Stainless steel legs mounted on wheels. Wheels with two ball bearing for efficiently working, especially rounded from circumference for easy rotation. with removable type lid at the top, having hinge lever arrangement, so that during mixing, the lid covers the tank completely and can be removed without opening the shaft of the mixer. The tanks should also provided with 'Internal Marking' in liters at various levels With ball valve for solution removal. Capacity: 50 liters Gauge: 16 SWG

- All machines & equipment shall be WHO –GMP/GLP compliance model,
- All machines & equipment shall be fit into section which is 8.6 feet height
- All Equipments individually costing more than Rs.25,000/- to have DQ, IQ & OQ , Fat, MOC Certificate, G.A Drawing of the machine, wiring diagram will be supplied with the machine.

Bidders are requested to quote for all the items under sections. Bids will be evaluated on Package basis / Section wise basis. All bidders must quote accordingly, otherwise bid will be summarily rejected.

NOTE:

SYRUP SECTION

SYRUP SECTION

S.NO	NAME OF	SPECIFICATION
	THE	
	EQUIPMENT/ INSTRUMENT	
43	Steam	STAINLESS STEEL DOUBLE TRIPPLE WALLED
	operated	ELECTRICALLY OPERATED Syrup HEATING TANK
	double	Should designed such a way as it may Also be works with steam
	jacketed	operation
	vessel	Made of SS 316
		• 200 liter
		all contact parts are required of S. S. 316 quality Inner chamber made from S. S. – 316 or Quality Stainless Steel 14 SWG
		and Jacket of 4mm M. S. Sheet with Insulation of Glass Wool and
		covering by 18 S.W.G Stainless Steel Sheet of 304 Quality. Provided
		with S.S Legs, with wheels removable type lid at the top & Electric
		heaters, thermostatically operated with panel box. Complete with S. S.
		Ball valve for solution removal with oil inlet / outlet provisions,
		supplied without oil. <u>Capacity</u> 200 liters
		Gauge in SWG 16 SWG / 6 K.W
		Heater Load 3 Heater of 2 kw / 6 kw
		a. If External Marking required with Glass Tube & Complete Valve
		fitting
		b. Cost of Digital Temp indicator / controller with Pannel Box for
		above instead of thermostat b) INDUSTRIAL MOTORISED STIRRER - GMP MODEL
		Complete in all respects with all contact parts of Stainless Steel quality,
		mounted on m.s angle frame Stand cladded with St. Steel Sheet. 200 lt.
		Mixing capacity, with 1 HP elect. Motor
	CENTRIFICAL	Marsh Land CC COA and a state of the state o
	CENTRIFUGAL PUMP	 Mono block SS-304, pump with mechanical seal Complete with motor, SS frame
	1 Olvii	Suitable to transfer free flowing liquid like sugar syrup, pulp,
		RTS juice etc.
		Sanitary design, continue to food safety standard
45	Contrifugo	Cton doude CMD compiliance model
45	Centrifuge filter (SS 316)	Standards GMP compliance modelSS 316
	111101 (33 3 10)	• 50 liter capacity
45	Filter press	• 25 liter
46	Storage vessel	vessels made out of stainless steel sheet of 304 quality,
		Stainless steel legs mounted on wheels.
		Wheels with two ball bearing for efficiently working, especially
		rounded from circumference for easy rotation.
		with removable type lid at the top, having hinge lever arrangement, so that during mixing, the lid sovers the tapk completely and can be
		so that during mixing, the lid covers the tank completely and can be removed without opening the shaft of the mixer.
		The tanks should also provided with 'Internal Marking' in liters at
L		The table should also provided with internatival king in intersut

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	various levels
	With ball valve for solution removal.
	Capacity:200 liters
	Gauge: 16 SWG

- All machines & equipment shall be WHO –GMP/GLP compliance model,
- All machines & equipment shall be fit into section which is 8.6 feet height
- All Equipments individually costing more than Rs.25,000/- to have DQ, IQ & OQ , Fat, MOC Certificate, G.A Drawing of the machine, wiring diagram will be supplied with the machine.

Bidders are requested to quote for all the items under sections. Bids will be evaluated on Package basis / Section wise basis. All bidders must quote accordingly, otherwise bid will be summarily rejected.

NOTE:

OIL SECTION

OIL SECTION

	NAME OF THE	SPECIFICATION
S.NO	EQUIPMENT/ INSTRUMENT	
	Steam operated	STAINLESS STEEL DOUBLE TRIPPLE WALLED
	double jacketed closed pan	 ELECTRICALLY OPERATED OIL HEATING TANK 100 liter
1		 Made of SS 316 Should designe such a way as it may Also be works with steam operation Design shall be suitable for Taila paka process used in Ayurvedic pharmacy Inner chamber made from S. S. – 316 or Quality Stainless Steel 14 SWG and Jacket of 4mm M. S. Sheet with Insulation of Glass Wool and covering by 18 S.W.G Stainless Steel Sheet of 304 Quality. Provided with S.S Legs, with wheels removable type lid at the top & Electric heaters, thermostatically operated with panel box. Complete with S. S. Ball valve for solution removal with oil inlet / outlet provisions, supplied without oil. Capacity 100 liters Gauge in SWG 16 SWG / 6 K.W Heater Load 3 Heater of 2 kw / 6 kw Optional: If External Marking required with Glass Tube & Complete Valve fitting Cost of Digital Temp indicator / controller with Pannel Box for above instead of thermostat with Inbuild INDUSTRIAL MOTORISED STIRRER - GMP MODEL Complete in all respects with all contact parts of Stainless Steel quality,
		mounted on m.s angle frame Stand cladded with St. Steel Sheet. 200 It. Mixing capacity, with 1 HP elect. Motor Also may be Separate quoted for SS 316 quality – & size variant like 50 liter & 200 liter
2	COOKING KETTLE - KETTLES FIXED TYPE 1 NO. (WITH TAFLON SCRAPPER ATTACHEMEN T)	 10-25 liter Electrical steam operated ss 316 Should design such a way as it may Also be works with steam operation ss 316 FIXED TYPE WITH TAFLON SCRAPPER ATTTACHEMENT Separate quote also be for same kettle with tilt option
3	Centrifuge filter (SS 316)	Standards GMP compliance modelSS 316
	File	• 50 liter capacity
4	Filter press	• 25 liter vertical
5	Storage vessel	100 l iter50 liter

- vessels made out of stainless steel sheet of 304 quality,
- Covering lid with SS 304
- Stainless steel legs mounted on wheels.
- Wheels with two ball bearing for efficiently working, especially rounded from circumference for easy rotation.
- with removable type lid at the top, having hinge lever arrangement, so that during mixing, the lid covers the tank completely and can be removed without opening the shaft of the mixer.
- The tanks should also provided with 'Internal Marking' in liters at various levels
- With ball valve for solution removal.
- Gauge: 16 SWG

Also may be Separate quoted for SS 316 quality – win50/100 liter &other size variant like 200

- All machines & equipment shall be WHO –GMP/GLP compliance model,
- All machines & equipment shall be fit into section which is 8.6 feet height
- All Equipments individually costing more than Rs.25,000/- to have DQ, IQ & OQ , Fat, MOC Certificate, G.A Drawing of the machine, wiring diagram will be supplied with the machine.

Bidders are requested to quote for all the items under sections. Bids will be evaluated on Package basis / Section wise basis. All bidders must quote accordingly, otherwise bid will be summarily rejected.

NOTE:

ASAVA/ARISHTA SECTION

ASAVA/ARISHTA SECTION

S.NO	NAME OF THE EQUIPMENT/INSTRUMENT	SPECIFICATION
1	Wooden vats	 200 liter 100 liter Suitable design as traditionally used in Asava Arishitha preparation Made-up of "SAAL" wood
2	Storage vessel	 vessels made out of stainless steel sheet of 304 quality, Stainless steel legs mounted on wheels. Wheels with two ball bearing for efficiently working, especially rounded from circumference for easy rotation. with removable type lid at the top, having hinge lever arrangement, so that during mixing, the lid covers the tank completely and can be removed without opening the shaft of the mixer. The tanks should also provided with 'Internal Marking' in liters at various levels- calibrated With ball valve for solution removal. Capacity: 200 liters Gauge: 16 SWG
3	Transfer pump	 GMP model Complete Rotary gear pump of S.S 316 quality 1 HP / 3 phase motor mounted on trolley cladded with St. Steel Sheet fitted with tarter etc. Output capacity approx. 40-50 ltr/min

- All machines & equipment shall be WHO –GMP/GLP compliance model,
- All machines & equipment shall be fit into section which is 8.6 feet height
- All Equipments individually costing more than Rs.25,000/- to have DQ, IQ & OQ , Fat, MOC Certificate, G.A Drawing of the machine, wiring diagram will be supplied with the machine.

Bidders are requested to quote for all the items under sections. Bids will be evaluated on Package basis / Section wise basis. All bidders must quote accordingly, otherwise bid will be summarily rejected.

NOTE:

AVLEHA SECTION

AVLEHA SECTION

S.NO	NAME OF	SPECIFICATION
	THE EQUIPMENT/INSTRUMENT	
1.	Steam	STAINLESS STEEL DOUBLE WALLED ELECTRICALLY
	operated	<u>OPERATED Pan</u> ,
	double	• 200 liter
	jacketed	Made of SS 316
	closed pan	Should designed in such a way as it may Also be works with steam operation
		Design shall be suitable for Aveleha paka/Chyawanprash like process used in Ayurvedic pharmacy
		Inner chamber made from S. S. – 316 or Quality Stainless Steel 14 SWG and Jacket of 4mm M. S. Sheet with Insulation of Glass Wool and covering by 18 S.W.G Stainless Steel Sheet of 304 Quality. Provided with S.S Legs, with wheels removable type lid at the top & Electric heaters, thermostatically operated with panel box. Complete with S. S. Ball valve for solution removal with oil inlet / outlet provisions, supplied without oil.
		<u>Capacity</u> 100 liters <u>Gauge in SWG</u> 16 SWG / 6 K.W
		Heater Load 3 Heater of 2 kw / 6 kw
		i. If External Marking required with Glass Tube & Complete Valve
		fitting
		i. Cost of Digital Temp indicator / controller with Pannel Box for
		above instead of thermostat
		b) with Inbuilt INDUSTRIAL MOTORISED STIRRER - GMP MODEL Complete in all respects with all contact parts of Stainless Steel quality,
		mounted on m.s angle frame Stand cladded with St. Steel Sheet. 200 It. Mixing capacity, with 1 HP elect. Motor
		Also may be Separate quoted for SS 316 quality – & size variant like 50 liter & 200 liter
2.	Storage	 vessels made out of stainless steel sheet of 304 quality,
	vessel/pan	Stainless steel legs mounted on wheels.
		Wheels with two ball bearing for efficiently working, especially
		rounded from circumference for easy rotation.
		with removable type lid at the top, having hinge lever arrangement, at the tolerand mixing the lid agrees the topk completely and can be
		so that during mixing, the lid covers the tank completely and can be
		removed without opening the shaft of the mixer. • The tanks should also provided with 'Internal Marking' in liters at
		various levels
		With ball valve for solution removal.
		Capacity: 200 liters
		Gauge: 16 SWG
	Il machines 9 equi	Also may be Separate quoted for SS 316 quality –

- All machines & equipment shall be WHO –GMP/GLP compliance model,
- All machines & equipment shall be fit into section which is 8.6 feet height
- All Equipments individually costing more than Rs.25,000/- to have DQ, IQ & OQ , Fat, MOC Certificate, G.A Drawing of the machine, wiring diagram will be supplied with the machine.

Bidders are requested to quote for all the items under sections. Bids will be evaluated on Package basis / Section wise basis. All bidders must quote accordingly, otherwise bid will be summarily rejected.

NOTE:

OINTMENT SECTION

OINTMENT SECTION

S.NO	NAME OF THE	SPECIFICATION
	EQUIPMENT/	
	INSTRUMENT	0145 (015 00145) 141105 511 07 0175
1	Ointment /	GMP/GLP COMPLIANCE, PILOT SIZE,
	Cream	STANDARD MAKE & QUALITY
	Manufacturing Plant	STAINLESS STEEL ELCTRICALLY OPERATED ointment/cream
	Pidiil	manufactruring plant
		Should be designed such a way as it may Also be works with steam
		operation Made of SC 216
		Made of SS 316 Page 1 as latest as sidely a task and a well-as a second at least a second at lea
		Based on latest available technology & widely accepted by pharmacoutical industry.
		pharmaceutical industry For crosm (sintment manufacturing on pilot scale)
		 For cream/ointment manufacturing on pilot scale Sanitary design, continue to Ayurvedic/food safety standard
		Capacity 15 L(R & D MODEL): Single Lifting Hydraulic system for main yessel
		Single Lifting Hydraulic system for main vessel. Petter entry specially designs Hemogenizer for better % fast mixing.
		Bottom entry specially designs Homogenizer for better & fast mixing. Complete plant mounted on SS Skid.
		Complete plant mounted on SS Skid. Details TECHNICAL SPECIFICATION: -
		GENERAL DATA:
		Equipment Laboratory Model
		2. Capacity 12 L capacity
		3. Quantity 1 No
		4. Installation inside Main Manufacturing Plant, Indoor.
		1) MAIN MANUFACTURING VESSEL:
		A VESSEL DATA
		1. Content Oil / Solids – Ointment
		2. Sp. Gr. Of Mass 0.9
		3. Capacity 10 kg
		4. Brim Volume 15 L
		5. Working Volume 10 to 12 L
		6. Min Stir. Volume 6.5 L
		7. Vessel type Vertical, Cylindrical, Agitated & Jacketed
		8. Position Vertical
		9. Ends top Torrispherical Dish
		10. Ends Bottom Hemispherical Dish
		11. Vessel Flanges Top Lifting type with Silicon Gasket.
		12. Supports Pipe Legs
		13. Scrapper Teflon B DESIGN & OPERATION
		CONDITION
		Vessel Jacket
		1. Max. Operating Pressure kg / cm ² Ambient 2.5
		2. Vacuum Full Vacuum
		3. Design Pressure kg / cm ² Full of water 4.0
		4. Max / Min Temp. °C 100/30 150
		5. Design Temp. (Max. / Min) °C 120/15°C 175
		6. Hydro Full of Water 5.0 Kg/cm2
		7. Vacuum 650 mm

C DIMENSIONS

- 1. Shell 300 mm I/D x 110 mm St. Ht. x 3 mm thk.
- 2. Bottom 300 mm I/D x 3 thk x Hemispherical
- 3. Jacket Shell 386 mm I/D x 3 mm thk.
- 4. Jacket Bottom 386 mm I/D x 3 thk x Hemispherical
- 5. Insulation 40 mm Glasswool
- 6. Claddings 472 mm I/D x1.6 mm thk

DLIFTING MECHANISM

Consisting of Hydraulic Cylinder driven by power pack complete with solenoid valves housed in a column with guide bush. Cylinder operating Ram, in turn fixed on the top dishof the mixer for raising / lowering of the drive head by suitable height raising / lowering motion controlled through push buttons housed on panel itself.

The entire lifting assembly suitably Cladded with SS Covers.

E AGITATOR DATA

CENTRAL TOP ENTRY

- 1. Type of Agitator Semi Contra Rotating Type
- 2. Agitator HP 0.5 HP
- 3. Motor 0.5 HP / 1440 RPM / Crompton/ Hindustan/any standards make /Reputed TEFC Non FLP
- 4. Power Supply 415 V / 3 Ph / 50 C/S / AC
- 5. Speed 15 to 32 RPM Variable. Through Variable Frequency Drive.
- 6. Speed Reducer Worm Reduction Gear Box Bonfigiloli Italy make.
- 7. Shaft Support Bearing Housing
- 8. Sealing for agitator shaft Mechanical Seal Sigma make
- 9. Seal type Dry

CENTER BOTTOM HOMOGENISER

- 1. Type of Agitator Stator Rotor Type.
- 2. Stator Ring type slotted.
- 3. Rotator Ring type slotted.
- 4. Agitator HP 0.5 HP
- Motor 0.5 HP / 2880 RPM/ Crompton / Hindustan/Reputed TEFC Non FLP
- 6. Power Supply 415 V/ 3 Ph/ 50 C/s / AC
- 7. Speed 800 to 2880 RPM Variable. Through Variable Frequency Driv
- 8. Shaft Sealing Mechanical Seal Sigma Make
- 9. Seal type Water-cooled type.
- 10. Flow Switch to sense the flow of water to protect the mechanical seal from getting damage.

F NOZZLE SCHEDULE OF MANUFACTURING VESSEL

- 1. 1 Sight Glass 50 mm Flange SS 316
- 2. 2 Light Glass 50 mm Flange SS 316
- 3. 3 Vacuum Inlet + Vacuum Gauge & Vent Valve 15 mm TC SS 316
- 4. 4 PT 100 Sensor 1" TC SS 316
- 5. 5 Charging Funnel 20 mm TC SS 316
- 6. 6 Spare Inlet 20 mm TC SS 316
- 7. 7 Flash Bottom Valve 25 mm Flange SS 316

NOZZLE SCHEDULE OF JACKET

- 1. 1 Water Inlet / Cooling Outlet / Air vent 15 mm TC SS 304
- 2. 2 Water Outlet / Cooling Inlet/ Drain 15 mm TC SS 304
- 3. 3 Water High / Low Level 25 mm TC SS 304

4. 4 Water Heater 3 kw TC SS 304

Steam Accessories such as Pressure Gauge, Safety Valve & Air vent Valve will be provided

2. CONTROL PANEL:

- 1. R, Y, B
- 2. Digital Voltammeter **Selectron or any standards make**
- 3. Single Phase Protection Minilec or any standards Make
- 4. VFD For Anchor & Homoginser Allen Bredly / Crompton / Delta make
- 5. Digital Temperature Controller Radix / Selectron Make or any standards Make
- 6. Timer For Anchor & Homoginser Radix / Selectron or any standards Make
- 7. Suitable Contactor, Relay & MCB- Siemens or any standards Make
- 8. On/Off push button for all Motor
- 9. Main On/Off Switch
- 10. Fans for air circulation
- 11. Terminals

SAFETY FEATURE:

- 1. Agitator & Homogenizer will run only if top lid is in close position.
- 2. Flow switch for homogenizer is provided for mechanical seal, which doesn't allow seal to run dry.
- 3. NRV is provided inside hydraulic cylinder for protecting the cylinder to come down in case of power failure & hydraulic hose pipe damage.

3) MATERIAL OF CONSTRUCTION:

A) For all Manufacturing Vessel

- 1. 1 All Internals / Contact Parts. AISI SS 316
- 2. 2 Jacket AISI SS 304
- 3. 3 All Other Materials AISI SS 304

B) For Hydraulic Drive

- 1. 1 Main Column Hardcrome Plated.
- 2. 2 Hydraulic Power Pack CI / CS
- 3. 3 Column & Hydraulic Power Pack completely / covered with SS 304.

4) Component List For Ointment/Cream Plant

Description Make

- 1. Vessel Precikot Pharma
- 2. Safety Valve on jacket Precikot
- 3. Gear box Bonfiglioli
- 4. Electric Motor Crompton / Hindustan
- 5. AC Frequency Drive Allen Bradley / Delta
- 6. PT 100 Sensor Radix / Selectron
- 7. Pressure & Vacuum Guage Waaree / Sreeji
- 8. Light / Sight Glass Precikot
- 9. Pneumatically Operated Valves for Utilities avcon
- 10. Mechanical Seal Sigma
- 11. Vacuum Pump Vindivak

5 POST MANUFACTURING DOCUMENTATION:

- 1. Complete installation & commissioning manual.
- 2. T est certificate for bought outs & SS materials.
- 3. Calibration certificate for all the gauges, sensors &nsulation.
- 4. DQ, FAT & SAT

		1. METERING PUMP: This shall be used to transfer Ointment from Storage vessel to the Hopper of Ointment Filling Machine. 2. VACUUM PUMP: Watering type Vacuum pump, to be installed outside the manufacturing area.Capacity 51m3/hr with 3.0 HP motor with necessary valves & fitting 3. ESSENTIAL SPARES: a) Seal for Homogenizer 1 No. b) Seal for Agitator 1 No. c) One set of Silicon Gasket 1 Set d) Scrapper Set # separate quote may be for 6 L capacity same plant
2	Planetary mixer	 GMP model M.S. Body of the machine cladded with stainless steel sheet all contact parts of ss-316, suitable for mixing, kneading and emulsifying creams, ointments, pastes etc With ss-bowl, Capacity; 25 liter suitable locking plug for fixing the bowl to the machine, with specially designed slow speed beater, rotating in planetary motion, ensuring efficient and uniform mixing, driven by an elec. motor, coupled to a 3-speed gear box, with belt and pulley arrangement, motor: 02 HP/ 3 Phase hand operated mechanical up & down lifting device etc. Planetary movement speed-18, 27 & 36 r.p.m. Beater movement speed 54, 81 & 108 r.p.m. approx. With cooling/Electrical heating arrangement jacketed with SS 316 quality
3	Homogenizer	 GMP model M.S. body of the machine cladded with stainless sheet 316 Specially designed to grind the mixtures of ointments, pastes, suspensions etc Fitted with electric motor 1 HP/3 phase Starter and suitable reduction gear box Capacity: 15-25 kg / hour output
4	Storage vessels	 vessels made out of stainless steel sheet of 304 quality, Stainless steel legs mounted on wheels. Wheels with two ball bearing for efficiently working, especially rounded from circumference for easy rotation. with removable type lid at the top, having hinge lever arrangement, so that during mixing, the lid covers the tank completely and can be removed without opening the shaft of the mixer. The tanks should also provided with 'Internal Marking' in liters at various levels

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	•	With ball valve for solution removal.
	•	Capacity: 50 liters
	•	Gauge: 16 SWG

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NOTE:

RASA AUSHADHI SECTION

RASA AUSHADHI SECTION

S.NO	NAME OF THE EQUIPMENT/	SPECIFICATION
	INSTRUMENT	
1	Stone crushing	GMP compliance standard model & make ,
	machine	suitable for pilot plant
2	Fine pulverizing	GMP compliance standard model & make,
	(stone) mill	suitable for pilot plant
3	Programmed muffle furnace	 GMP compliance standard model & make, suitable for pilot plant of Traditional ayurvedic bhasma preparation, Body temperature resistance & suitable for various range of Calcination process(PUTA) as mahaput, Gaja put etc PLC based operating system with temperature & time setting arrangement(Programmed muffle furnace) Capacity 50 kg Separate quote may be for higher capacity as 100 kg or 200 kg material calcinations process Optional- tray case for material keeping inside the muffle furnace
4	End runner mill (granite)	 GMP model, Pilot model, standard make Mortar and Pestle made of hard granite stone, Mortar running on ball bearings, and is to be driven by 1 Hp 3 phase electric motor through oil filled reduction gearbox. Mortar ID-55 cm, internal depth 25 cm; Pestle dia 25 cm, Pestle ht.20 cm (Approx,), provided with 2 heavy SS scrappers. Pestle and Mortar duly polished, whole Machine is to be fitted on sturdy MS Cabinet. (Inside of Mortar to be taper shaped) Working volume 50 kg
5	Edge runner	 GMP Compliance model, Pilot model, standard make Working volume 100 kg Working volume 50 kg
6	Ball mill	 Capable of powdering minerals, etc. Shell is to be rotated through gearbox by suitable motor. GMP model Shell made to be made of 6 mm and sidewall of 10 mm thick MS plate; Shell has suitable opening for charging and discharging material, covered with lid that is lined with gasket. Ball mill-inner chamber to be made of dust proof, shell size 50 cm. dia x 80 cm. long; to be supplied with suitable 50 Nos. approx 300 mm steel balls. Or suitable qty of agate pebbles. Capacity; 50 kg Motor: 2 HP/3 phase/440 volts All contact part made from stainless steel 316 quality
7	Electric Hot air Tray dryer	 24 Tray capacity Made of 316 SS quality with 6 kW heaters

	1	4.110.70
		1 HP/3 phase motor
		Double walled body
		Stainless steel (316) covering of inside chamber as well as
		outer body as per GMP compliance
		Housing, insulated with heavy fibre glass wool
		With special U type heaters, air circulation fan, thermostat,
		panel box etc.
		Digital temper controller
		Digital timer with cutoff system
	Steam operated	GMP MODEL STAINLESS STEEL DOUBLE TRIPPLE
	double jacketed	WALLED ELECTRICALLY OPERATED & SUITABLE FOR
	vessel	AYURVEDIC KWATH PREPARATION (DECOCTION) HEATING
		TANK
		Should designe such a way as it may Also be works with
		steam operation
		Made of SS 316
		• 200 liter
		Also may be Separate quoted for SS 304 quality - optional
8	Centrifuge filter	Standards GMP compliance model
	(SS 316)	• SS 316
	,	• 50 liter capacity
9	Storage vessel	vessels made out of stainless steel sheet of 304 quality,
	l con a grant a contract	Stainless steel legs mounted on wheels.
		Wheels with two ball bearing for efficiently working,
		especially rounded from circumference for easy rotation.
		 with removable type lid at the top, having hinge lever
		arrangement, so that during mixing, the lid covers the tank
		completely and can be removed without opening the shaft of
		the mixer.
		 The tanks should also provided with 'Internal Marking' in
		liters at various levels
		With ball valve for solution removal.
		Capacity: 200 liters Cauga: 14 SWC
		Gauge: 16 SWG Also may be Separate gueted for \$5 204 guelity, entired.
		Also may be Separate quoted for SS 304 quality - optional

- All machines & equipment shall be WHO –GMP/GLP compliance model,
- All machines & equipment shall be fit into section which is 8.6 feet height
- All Equipments individually costing more than Rs.25,000/- to have DQ, IQ & OQ , Fat, MOC Certificate, G.A Drawing of the machine, wiring diagram will be supplied with the machine.

Bidders are requested to quote for all the items under sections. Bids will be evaluated on Package basis / Section wise basis. All bidders must quote accordingly, otherwise bid will be summarily rejected.

NOTE:

PACKING SECTION

PACKING SECTION

S.NO	NAME OF THE	SPECIFICATION
010	EQUIPMENT/	
	INSTRUMENT	
1	POUCH	GMP COMPLIANCE MODEL
	FILLING &	Suitable for filling LIQUID ORALS/juices/ water in filling range of
		100-500 ml.
	SEALING	single head filling
	MACHINE	Entire machine has stainless steel contact parts.
		Sanitary design, continue to Ayurvedic/food safety standard
2	Viscous liquid	GMP COMPLIANCE MODEL
	filling machine	fillers machineare suitable for filling viscous liquids like honey,
		avaleha, oil, syrup, ketchup, jam, sauces,, shampoo, oil, in
		jars/cans/pouches.
		Filling range 50-500Filling capacity 12-18 Fills/Min
		FEATURES:
		 Accurate Filling precision is achieved by the state-of-the art
		pneumatic fillers.
		 Designed and developed based on standard latest technology.
		Completely made of SS ,confirms to GMP standards,
		The weight range is easily adjustable by turning of a toggle lever
		controlled metering device which indicates the exact weight being
		filled.
		Can be operated in both manual (foot operated) and automatic
		dosing mode.
		Easy to dismantle and install, easy to clean.
		Sanitary design, continue to Ayurvedic/food safety standard
3	VACUUM	GMP COMPLIANCE MODEL
	FILLER	SUITABLE TO FILL avaleha, chayawanprash KETCHUP, honey,
		SAUCES like semi solid LIQUIDS & also liquid LIKE
		SYRUPS, JUICES IN GLASS BOTTLES WITH NARROW NECKS)
		Suitable for filling all types of liquids to a predetermined level in
		glass, rigid HPDE & aluminum bottles with narrow necks.
		The machine uses vacuum suction technology which helps in filling the bettles and simultaneously removes entrapped air.
		filling the bottles and simultaneously removes entrapped air inside the bottle. This helps in increasing the shelf life of the filled
		liquid.
		 The machine is designed to fill Avaleha, honey, ketchup, hot
		syrups at high temperatures.
		 The bottles are placed manually on spring loaded bases which
		helps in accommodating and filling different height bottles.
		The machine first creates vacuum in the bottle and then fills the
		product using suction pressure.

		 The overflow jar/tank stores the overflow liquid during the filling process. Sanitary design, continue to Ayurvedic/food safety standard
4	Automatic Form Fill & seal machine.	 (Mechanical Type) With Volumetric Cup Filler (standard GMP Model) Product: Powder (Same as herbal, spices) Packing: Pouch. Quantity: 2-10 gm Sealing: Three side Seal Type Filling with Volumetric Cup Filler. Speed: 40 – 50 pouches per min. Power: 1.5 Kw, Single phase. Compact and Robust Machine. All Contact Part Stainless Steel SS304 All around stainless steel covering.(SS304) Very simplified operation. Low maintenance. Electronic Photocell Control system for automatic length control. Digital Temperature Controller. (PID TYPE) Gear Box: Crown.
5	Automatic Form Fill & seal machine.	 Sanitary design, continue to Ayurvedic/food safety standard (Mechanical Type) With Volumetric Cup Filler Standard GMP Model Product: Kwath Powder (Coarse powder) (Same as herbal kwath churna, herbal tea) Packing: Pouch. Quantity: 25-100 gm Sealing: Three side Seal Type Filling with Volumetric Cup Filler. Speed: 40 – 50 pouches per min. Power: 1.5 Kw, Single phase. Compact and Robust Machine. All Contact Part Stainless Steel SS304 All around stainless steel covering.(SS304) Very simplified operation. Low maintenance. Electronic Photocell Control system for automatic length control. Digital Temperature Controller. (PID TYPE) Motor: Crompton Greaves / Rotomotive. Gear Box: Crown. With Coding System Sanitary design, continue to Ayurvedic/food safety standard
6	Automatic Form Fill & seal machine(for liquid item)	 GMP COMPLIANCE MODEL (Mechanical Type) With Volumetric Liquid Filler Product: Hair Oil Packing: Pouch

Quantity: 1-10 ml. Sealing: Three Side Seal Filling System: Volumetric Piston Filler. Speed: 60-70 pouches per min. Power: 1.5 Kw, Single phase All around Stainless Steel Covering. Compact and Robust Machine. Very simplified operation Low maintenance. Electronic Photocell Control system for automatic length control. Digital Temperature Controller (PID TYPE) Motor: Crompton Greaves / Rotomotive Gear Box: Crown Sanitary design, continue to Ayurvedic/food safety standard 7 **AUTOMATIC GMP** compliance model **VOLUMETRIC** Complete in all respects with two filling heads and all contact parts of ss-304, with filling capacity of syringes from 15-125 ml on both sides, **LIQUID** with adjustable nozzle, 1 HP/3 phase elec. Motor, starter, suitable **FILLING MACHINE** reduction gear box and quantity adjustment device etc. The conveyor belt is driven by a separate 1HP/3 phase elec. Motor coupled to a sturdy reduction box and starter, etc. Output 26-30 bottles / stroke / minute. Filling capacity – from 50 – 250 ml, **Optional Accessories:-**Extra Scrambler/Unscrambler/Bottle feeder with 1 HP/3-phase motor. suitable reduction gear box and starter etc. portable Sanitary design, continue to Ayurvedic/food safety standard 8 **Blister** GMP/GLP COMPLIANCE, STANDARD MAKE & QUALITY packing Based on latest available technology & widely accepted by machine pharmaceutical industry for packing section Sanitary design, continue to Ayurvedic/food safety standard Blister packing machine suitable for size '0' capsule PVC/ALU, Approx output-120 Blister/Min. Single station PLC controlled Organic acrylic guard Suitable capacity chiller Machine speed stroke / mm max. 50 (cycles) Bottom foil PVC, PVDC, ALU ALU foil, Paper Cover foil Film width max. 245 mm Film advance max. 125 mm Effective surface max. 123 x 237 mm Forming depth 18 (25) (35) mm Power consumption approx. KVA 7 KVA Air consuption approx. L/min 250 Air pressure KGF /cm 6 Net weight 1,700 approx. Kg

		Reel	Botto	mm	max. 500
		diameter	m foil		may 250
			Cover		max. 250
		Core diamet		mm	70-76
		Diamension	Height	mm (approx.)	1925
			Width	(арр. сл.)	800
			Lengt		5017
			h		
9	Augar Powder filling, bottle sealing,	suitable foSanitary	or online p	ntinue to Ayurv	el, HDPE container etc. vedic/food safety standard
	capping, labeling	Direction:	D 1	Left To Right	N
	machine	Production	Rate:) Bottles / Min
	macrimic	Fill Capacit	y :		kg. (with different set
				of Auger and fu	
		Electrical S	upply :	0.25 HP For C	
				440 Volts 3 P	hase (4 wire System)
		Power Requ	uirement :	50 Hz.	(· ····· · · · · · · · · · · · ·
		Height of Co	onveyor:	Adjustable fro	om 850 to 900 MM
		Dimensions	S:	1524 MM (L) 1800 MM (H)) x 1105 MM (W) x
		Products Fil	led:	Powder, Small	Granules
		Containers F	Filled:	Bottles, Jars, Ca	
		Fill Accuracy	/ :	± 1 % or better	-
		Operation:		Automatic	
		Hopper Capa	acity:	50Liter.	and representations
		Construction	า:		eel product contact tact parts are mild
		Cleaning Tin	ne:	40-60 minutes	or less
				Fully co No Bott wastage of pov High qu for moving cor Speed c save time Pneuma system elimina transfer until b Total Pl machine	mpact cGMP model le – No Fill, so No vder ality motor is used
		Impo Motor for Co drive.	rted Gear onveyor		
		A.C. F	requency		

		drive for Conveyor drive. PLC control for machine. Pneumatic bottle holding system Utilities
		Pneumatic Air: Filtered, oil free, sterile low pressure AIR at 6 kg/cm2
10	Batch coding machine	 GMP compliance, latest technology based standard pilot model, suitable for online packing operation
11	Carton strapping machine	 GMP compliance, latest technology based standard pilot model, suitable for packing section
12	Carton sealing machine	 GMP compliance, latest technology based standard pilot model, suitable for packing section
13	Hand Batch printing machine	 GMP compliance, latest technology based standard pilot model, suitable for packing section
14	Tape Dispenser (manual)	GMP compliance for packing section

- All machines & equipment shall be WHO –GMP/GLP compliance model,
- All machines & equipment shall be fit into section which is 8.6 feet height
- All Equipments individually costing more than Rs.25,000/- to have DQ, IQ & OQ , Fat, MOC Certificate, G.A Drawing of the machine, wiring diagram will be supplied with the machine.

Bidders are requested to quote for all the items under sections. Bids will be evaluated on Package basis / Section wise basis. All bidders must quote accordingly, otherwise bid will be summarily rejected.

NOTE:

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UUAL			LADU	NAIUI	VI OLG	

QUALITY CONTROL LABORATORY SECTION

UTILITY SECTION

S.NO	NAME OF THE EQUIPMENT/ INSTRUMENT	SPECIFICATION
1	DM Water Plant	Standard make & designcompliance with WHO GMP norm
2	D.M. Water tank	 2000Lts. Standard make & design compliance with WHO GMP norm, suitable for DM water storage

- All machines & equipment shall be WHO –GMP/GLP compliance model,
- All machines & equipment shall be fit into section which is 8.6 feet height
- All Equipments individually costing more than Rs.25,000/- to have DQ, IQ & OQ , Fat, MOC Certificate, G.A Drawing of the machine, wiring diagram will be supplied with the machine.

Bidders are requested to quote for all the items under sections. Bids will be evaluated on Package basis / Section wise basis. All bidders must quote accordingly, otherwise bid will be summarily rejected.

NOTE:

CHEMISTRY SECTION

CHEMISTRY SECTION

		CHEIVII SI KI SECTION
S.NO	NAME OF	SPECIFICATION
	THE	
	EQUIPMENT	
	/ INSTRUMEN	
	T	
1	ELECTRONIC	Digital electronic weighing balance capacity 0.1 mg. to 500 gm., least
	WEIGHING	count 0.0001 gm. (sensitivity 0.1 mg.) covered & opened three side
	BALANCE:-	glass shutters with Standard laboratory size required, power supply
		220 volt C. required - 2 nos.
		A. Max. Wt. up to220-230 gm capacity (approx.) - 5 digit
		B. Max Wt. up to 500-600 gm. capacity (approx.) - 4 digit
2	DT	whole body of the machine required of St. Steel 304 (GMP/GLP)
	apparatus	Compliance model)
		Complete as per I.P Specification
		A motor moves a shaft, carrying a basket rack assembly consists of
		6 open ended tubes. The cylinder moves up and down 30 to 32
		cycles/min. in one liter beaker filled with distilled water,
		maintained at 37 C + 2 C by thermostatically controlled hot plate,
		water bath etc.
		Complete with beaker of `Borosil` make to work on 220/230 volts, with wire and plug, ready to switch on.
		Digital timer
		Digital time: Digital temperature controller
3	Friability test	(GMP/GLP Compliance model)
	apparatus	A transparent plastic drum has plastic curved hinge, which carries
		the tablet along with it up to a predetermine height.
		The rotation period is determined by a timer to work on 220/230
		volts.
		Complete with wire and plug, ready to switch on.
		Single drum model
		With Digital Timer/ and Buzzer system
		whole body of the machine of St. Steel 304 quality
	D: :: :	Separate qoutemay be for Double drum model
4	Digital	(GMP/GLP Compliance model) Resed on letest evallable technology & widely assented by pherma
	ABBE's refractometer	Based on latest available technology & widely accepted by pharma testing house
	Terractorneter	testing houseDigital Abbe's refractometer are Designed for accurate and quick
		examination of the Refractive index and Mean dispersion of liquids,
		solids and powder
		ND Range: ND 1.300 to ND 1.700 In step of 0.001, Accuracy ±
		0.0002
		Sugar (Percentage) 0 to 95% in steps of 1 division, Accuracy 0.5%
		Temperature 0 - 100°C
		The body of the instrument fixed having a leaning of 60 °,
		Correct refractive index and sugar percentage can be read directly in the field.
		 Must consist of a ABBE double prism compensator, telescope
		wide consist of a ADDL double prisin compensator, telescope

		 mirror limb, graduated, sector, reading, magnifier and a radial arm which carries a Vernier. Abbe's double prisms should leave a narrow space (about 0.1 mm) between the adjoining faces of prisms and compensator should consist of the amici prisms which serves for rendering the line of achromatic separation. thermometer is fitted on the double prism.
5	Digital pH, conductivity, T.D.S. meter	 (GMP/GLP Compliance model) Based on latest available technology & widely accepted by pharma testing house High Accuracy Digital pH/Conductivity/TDS Meter connected with Auto sensor & Auto calibration system, Preferred High power Battery backup system pH measurement range : 0 to 14, Accuracy: 0.01 pH, Resolution ± 0.01pH(25 °C) Conductivity measurement range: 0 to 2000 µS, Accuracy: 0.01 to 0.001. T.D.S. measurement range: 0 to 999 ppm., Accuracy: 0.01 to 1.0 ppm.
6	Digital IR moisture balance	 (GMP/GLP Compliance model) Based on latest available technology & widely accepted by pharma testing house Capacity 10 gm Directly calibrated in percentage of moisture between 0% and 100%. Infrared lamp of 250 watts is used for heating the sample. Temperature. controlled by regavolt, Complete with six disposable pans, thermometer, wire and plug, ready to switch on 230 volts.
7	Muffle furnace (digital with temp. controller)	 (GMP/GLP Compliance model) Based on latest available technology & widely accepted by pharma testing house Laboratory scale model Muffle size: 150 x 150 x 300 mm Rating: 3.5 K.W. Max. tempr. 1200°C and working tempr.1150°C temperature control by sunvic simmer state energy regulator, Outer body made of thick mild steel sheet with enamel paint. Apparatus complete with neon light with wire & plug to work on 220/230 volts. A.C main, ready to switch on. Digital temperature controller
8	Rectangular hot air oven	 (GMP/GLP Compliance model) Based on latest available technology & widely accepted by pharma testing house digital with temp controller

9	Long electric hot plate with manual temp controller	 (GMP/GLP Compliance model) Based on latest available technology & widely accepted by pharma testing house
10	Vaccum oven	 (GMP/GLP Compliance model) Based on latest available technology & widely accepted by pharma testing house
11	water bath rectangular (double walled)	 GMP/GLP Compliance model Based on latest available technology & widely accepted by pharma testing house It is a double walled bath with inner chamber made of stainless steel (SS-304 grade) and outer wall made of M.S. sheet duly enamel painted. The gap between outer and inner walls is fitted with special grade glass wool insulation. The concentric rings can be removed to accommodate containers of various sizes. Thermostatically controlled: Temperature from ambient to 100°C ± 0.5°C is controlled by hydraulic type "Ego/Jumo" German thermostat. Size:(L)x(W)x(D) 300 x 250 x 100 m.m. (6 holes of 75 m.m. dia) Capacity 8 ltrs. Without Stirrer
12	Heating mantle	 Capacity 01 Lt (GMP/GLP Compliance model) Based on latest available technology & widely accepted by pharma testing house Fitted with energy regulator Two or three heating circuits so that upper circuit could be switched off, when small sizes flask is being heated or when liquid level is dropped. Body of the mantle in one piece, from non-rusting aluminum Hand knitted electric heating net from glass yarn to attain temperature upto 400°C Provided with ON/OFF switch and Pilot lamp workable on 230/220 volts AC Separate quote may be for various other available capacity .
13	Tablet hardness tester	 (GMP/GLP Compliance model) Based on latest available technology & widely accepted by pharma testing house Pfizer type 0 to 20 kg/cm²
14	KF titrator digital	 (GMP/GLP Compliance model) Based on latest available technology & widely accepted by pharma testing house Designed to carry out, water determination by KARL FISHER titration in various sample in liquid form or powder form. Built in magnetic stirrer and speed controller. Sturdy burette stands makes the unit, compact. Minimum controllers are provided on the front panel. The "start" and "finish" of the titration backed by audio and visual

		 indication, with LED Display, indicating the "nullpoint". A built in timer to indicate end point All glass parts built in precision parts using. "Borosil Glass". Special auto burette, reaction vessel to eliminate the human error. Working on 230 volts, 50 Hz main supply.
	Vernier caliper digital	 Digital 6" size GMP/GLP Compliance model Based on latest available technology & widely accepted by pharma testing house
	Digital Micrometer	 Digital GMP/GLP Compliance model Based on latest available technology & widely accepted by pharma testing house
' [WATER DISTILLATION APPARTUS	 GMP/GLP Compliance model Based on latest available technology & widely accepted by pharma testing house Double distillation assembly Distillation units, quartz double, demountable boiler panel series, Borosil catalogue no. 3366, out put capacity ltr./hr. 2.5. Electronic relay unit for use along with above distiller to switch off heater in case of water level flowing below heating coil to avoid frequent burn out. Quantity
18 I	Lab. Stirrer	 GMP/GLP Compliance model Based on latest available technology & widely accepted by pharma testing house Digital timer controlled
	UV inspection Box	 GMP/GLP Compliance model Based on latest available technology & widely accepted by pharma testing house
	Sigma balance	 GMP/GLP Compliance model Based on latest available technology & widely accepted by pharma testing house
	Volatile oil determinatio n apparatus	GMP/GLP Compliance appratus
	Thermometer	 GMP/GLP Compliance model With calibration certificate Based on latest available technology & widely accepted by pharma testing house Quote rate of thermometer for various temp range
	Water bath with stirrer	 GMP/GLP Compliance model Based on latest available technology & widely accepted by pharma testing house

24	Oil water bath with stirrer	 GMP/GLP Compliance model Based on latest available technology & widely accepted by pharma testing house
25	Hot air oven	 GMP/GLP Compliance model Based on latest available technology & widely accepted by pharma testing house
26	Hardness tester (Monsento type)	 GMP/GLP Compliance model Based on latest available technology & widely accepted by pharma testing house
27	Digital centrifugal table top machine	 GMP/GLP Compliance model Based on latest available technology & widely accepted by pharma testing house Table top model 6 tube x 15 ml. 5000 rpm required #Separate quote may be for Medico centrifuges machine with swing out rotor heads of 15 ml. tube capacity and 5 step speed regulator, 4 tubes x 15 ml. capacity, closed type, 3500 rpm required.
28	Hygrometer	 Digital thermo hygrometer Zoom type with minimum and maximum temperature and humidity indicator
29	Viscometer	 Flow cup viscometer A4 size:- Flow range 20 sec. to 5 minutes. Quantity 2 nos.
30	Digital Viscometer	 VISCOMETER (Programmable & digital): GMP/GLP Compliance model Based on latest available technology & widely accepted by pharma testing house Digital model SPECIFICATION DETAILS: PRO Digital Viscometer combines accuracy, reliability and versatility with the advantages of continuous sensing, temperature measurement and data output to PC or printer. When controlled by PC, the PRO becomes a Rheometer with variable speed capability from 0.01 to 200rpm. Viscosity Range Cp(mPa.s):

		customer programs with DV Loader software (included).
		Automatic data collection and :Latest version software Automatic data collection and
		Historical comparison Historical comparison as optional software. Sample monitoring probe: Built-in RTD. temperature probe for sample monitoring.
		 Easy-to-use keypad for simple selection of test parameters Auto-Zero function to ensure precision torque measurement Customizable options Spares, Accessories: Parallel printer, serial RS-232 and online UPS with 30 min. backup. NIST traceable viscosity standards available Compatible with all accessories. Where term mention: cP = Centipoise, mPa.s = Millipascal seconds ,†† = is achieved with optional RV spindle, M=1 million
31	Bulk density apparatus	 GMP/GLP Compliance model Based on latest available technology & widely accepted by pharma testing house Specially designed to study the bulk density of powders Body of machine made from stainless steel body Unit complete with motor, tubes, holders etc Digital stroke controller/indicator with alarm system
32	Boiling point determination	 GMP/GLP Compliance model Based on latest available technology & widely accepted by pharma testing house
33	Melting point apparatus (digital type)	 Control: Microprocessor temperature controlled based ramping, provides fast and repeatable warm-up and cool-down cycling. Programmable ramp rates from 0.1 ° C/min to 20 ° C/min, in 0.1 ° C/min increments, provide measurement flexibility. Furnace construction: Round removable aluminum block. Temperature sensor: Pt RTD (built-in) Temperature Range :-10°C to 400°C Temperature Reproducibility:- 0.2°C Temperature Resolution: -0.2°C Heating Rate: 0.1°C to 20°C per min. (0.1°C increments) Heat-up time: approx. 10 min. (50°C to 350°C Cool -down time: approx. 10 min. (350°C to 50°C Temperature accuracy: ± 0.3°C (up to 100°C) ± 0.5°C (up to 250°C) ± 0.8°C (up to 400°C) Oven control:Closed-loop PID Sampling:

		a) Sample Size-5 mg (Approx)
		b) Glass Capillary tube with one end sealed (optional accessory).
		Capillaries: Dimensions-1.4 mm to 2.0 mm outside dia,100 mm
		length.
		Capacity: - Up to 3 tubes simultaneously.
		• Fill height: 2 mm to 3 mm.
		 Melt View Software:- Melt view software allow to display live, High resolution
		Image of samples during analysis time with three screen-captured images below were collected during a typical melt. Selection of formats including result report, graphics, and calibration reports etc.
		Display-Back-lit, touch screen LCD (5.8")
		Printer interface-RS-232 serial port, Supports Epson compatible
		dot-matrix printers.
		Computer interface-USB. All instrument function can be queried
		and controlled through a high-level command set.
		• Power: 230 VAC ± 10 %, 50 Hz.
34	Sieves 10 to 120 with sieve shaker	 GMP/GLP Compliance model Based on latest available technology & widely accepted by pharma testing house Digital type, auto shaking timer with all size sieve set
25	CL-1-111	CMD/OLD O I'm
35	Stability testing chamber (Digital display & per	 GMP/GLP Compliance model Based on latest available technology & widely accepted by pharma testing house Chamber Capacity range: 250 liters(min.) Safety: Maximum safety
	G.M.P. Standard) for C.R.T.Study &	 Wide range of temperature control: 10.0°C to 60.0°C. Accuracy: ± 0.5°C , Resolution: 0.1°C.
	Accelerated Study	 Resolution: 0.1°C For stability test of medicine, temperature set measurement range 25°C(max.) & 35°C(max.) connected with programmable auto adjustable system.
		Programmable humidity range: 20% to 95% RH. Accuracy: <u>+</u> 0.3% RH ,
		Resolution: 0.1% For stability test of medicine, temperature set measurement range 45%(max.) & 55%(max.) connected with
		programmable auto adjustable system.
		Door mounted state Controller:Door mounted state of art
		programmable
		microprocessor PID control system based.
		Chamber Made in material: Stainless steel chamber and external body
		made of epoxy-polyester painted stainless steel 85 mm access part on
		the right side.
		Interior light system: Interior lighting
		Thermostat system with digital display: Auto adjustable electronic safety thermostat with digital display of inlet Temperature in °C & Humidity display in % to left side of Chamber on top.

Alcohol content determination apparatus Standard size for laboratory purpose.
determinatio n apparatus Itimit test apparatus Based on latest available technology & widely accepted by pharma testing house Limit test laboratory apparatus observe(As, Pb, heavy metals etc.) detection apparatus boxes & bottles etc. GMP/GLP Compliance model Based on latest available technology & widely accepted by pharma testing house GRINDER (Mini Grinder for laboratory) GMP/GLP COMPLIANCE, PILOT SIZE, STANDARD MAKE & QUALITY Mini Grinder for laboratory purposes with high speed motors, capacity 220 V. GMP/GLP Compliance model Based on latest available technology & widely accepted by pharma testing house GMP/GLP Compliance model GMP/GLP COMPLIANCE, PILOT SIZE, STANDARD MAKE & QUALITY Mini Grinder for laboratory purposes with high speed motors, capacity 220 V. Oty. 5-10 kg capacity GMP/GLP Compliance model Based on latest available technology & widely accepted by pharma testing house Overall Size:1275 (W) x 750 (D) x 2350 (H) mm Working Size:1200 (W) 600 (D) 750 (H) mm Technical Specification Main Body: CRCA, Epoxy coated, Powder coated. Working Table: S.S. 316 with proper support or Granite, 15 mithick. Baffle Plate: CRCA, 18 SWG, F.R.P. Front Shutter: Sliding type with counter weights. Motor Blower Assembly : ¼ H.P.,1375 R.P.M., 50 Hz, Single Phase, 220 V A.C., Make: Crompton / A.B.B. / GE (AUE) statically and dynamically balanced, Al. centrifugal blower. Electricals: Fluorescent light, Relay ON – OFF switch, and other
Standard size for laboratory purpose.
Second Processing Second Processing Second Processing
 apparatus Based on latest available technology & widely accepted by pharma testing house Limit test laboratory apparatus observe(As, Pb, heavy metals etc.) detection apparatus boxes & bottles etc. TLC apparatus with all accessories GRINDER (Mini Grinder for laboratory) GMP/GLP COMPLIANCE, PILOT SIZE, STANDARD MAKE & QUALITY Mini Grinder for laboratory purposes with high speed motors, capacity 220 V. Qty. 5-10 kg capacity GMP/GLP Compliance model Based on latest available technology & widely accepted by pharma testing house Overall Size:1275 (W) x 750 (D) x 2350 (H) mm Working Size:1200 (W) 600 (D) 750 (H) mm Working Table: S.S. 316 with proper support or Granite, 15 mithick. Baffle Plate: CRCA, 18 SWG, F.R.P. Front Shutter: Sliding type with counter weights. Motor Blower Assembly : ¼ H.P.,1375 R.P.M., 50 Hz, Single Phase, 220 V A.C., Make: Crompton / A.B.B. / GE (AUE) statically and dynamically balanced, Al. centrifugal blower. Electricals: Fluorescent light, Relay ON – OFF switch, and other
testing house Limit test laboratory apparatus observe(As, Pb, heavy metals etc.) detection apparatus boxes & bottles etc. GMP/GLP Compliance model Based on latest available technology & widely accepted by pharma testing house GRINDER (Mini Grinder for laboratory) GMP/GLP COMPLIANCE, PILOT SIZE, STANDARD MAKE & QUALITY Mini Grinder for laboratory purposes with high speed motors, capacity 220 V. Oty. 5-10 kg capacity GMP/GLP Compliance model Based on latest available technology & widely accepted by pharma testing house Overall Size:1275 (W) x 750 (D) x 2350 (H) mm Working Size:1200 (W) 600 (D) 750 (H) mm Technical Specification Main Body: CRCA, Epoxy coated, Powder coated. Working Table: S.S. 316 with proper support or Granite, 15 mithick. Baffle Plate: CRCA, 18 SWG, F.R.P. Front Shutter: Sliding type with counter weights. Motor Blower Assembly : ¼ H.P.,1375 R.P.M., 50 Hz, Single Phase, 220 V A.C., Make: Crompton / A.B.B. / GE (AUE) statically and dynamically balanced, Al. centrifugal blower. Electricals: Fluorescent light, Relay ON – OFF switch, and other
 Limit test laboratory apparatus observe(As, Pb, heavy metals etc.) detection apparatus boxes & bottles etc. TLC apparatus with all accessories GRINDER (Mini Grinder for laboratory) GUY. 5-10 kg capacity GMP/GLP Compliance model STANDARD MAKE & QUALITY Mini Grinder for laboratory purposes with high speed motors, capacity 220 V. Qty. 5-10 kg capacity GMP/GLP Compliance model Based on latest available technology & widely accepted by pharma testing house Overall Size:1275 (W) x 750 (D) x 2350 (H) mm Working Size:1200 (W) 600 (D) 750 (H) mm Working Table: S.S. 316 with proper support or Granite, 15 mithick. Baffle Plate: CRCA, 18 SWG, F.R.P. Front Shutter: Sliding type with counter weights. Motor Blower Assembly : ¼ H.P.,1375 R.P.M., 50 Hz, Single Phase, 220 V A.C., Make: Crompton / A.B.B. / GE (AUE) statically and dynamically balanced, Al. centrifugal blower. Electricals: Fluorescent light, Relay ON – OFF switch, and other
detection apparatus boxes & bottles etc. TLC apparatus with all accessories GRINDER (Mini Grinder for laboratory) Fume hood Fume hood Fume hood GMP/GLP COMPLIANCE, PILOT SIZE, STANDARD MAKE & QUALITY Mini Grinder for laboratory purposes with high speed motors, capacity 220 V. Oty. 5-10 kg capacity GMP/GLP Compliance model Based on latest available technology & widely accepted by pharma testing house Overall Size:1275 (W) x 750 (D) x 2350 (H) mm Working Size:1200 (W) 600 (D) 750 (H) mm Technical Specification Main Body: CRCA, Epoxy coated, Powder coated. Working Table: S.S. 316 with proper support or Granite, 15 mithick. Baffle Plate: CRCA, 18 SWG, F.R.P. Front Shutter: Sliding type with counter weights. Motor Blower Assembly : ¼ H.P.,1375 R.P.M., 50 Hz, Single Phase, 220 V A.C., Make: Crompton / A.B.B. / GE (AUE) statically and dynamically balanced, Al. centrifugal blower. Electricals: Fluorescent light, Relay ON – OFF switch, and other
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necessary electrical switch.
• Rain Canopy: C.R.C.A., 18 G, Enamel Painted.
Bird Screen: Al. perforated
● P.V.V. Ducting : 6", 6 kg/cm
Bottom Arrangement: Three feet height working table with top
drawer and bottom cupboard with suitable locking arrangements.
P.V.C. Ducting
Water Tap with Stainless Steel Sink inside the Chamber
41 Refrigerator • Capacity: 215 litres
Double Door
Auto Defrost
Works without Stabilizer
5 Star rating (BEE level)
Any other perquisite required if any with specifications should be
included to run and installation of the instrument
Separate quote may be for various other available capacity

HSCC (India) Limited

- All machines & equipment shall be WHO –GMP/GLP compliance model,
- All machines & equipment shall be fit into section which is 8.6 feet height
- All Equipments individually costing more than Rs.25,000/- to have DQ, IQ & OQ , Fat, MOC Certificate, G.A Drawing of the machine, wiring diagram will be supplied with the machine.

Bidders are requested to quote for all the items under sections. Bids will be evaluated on Package basis / Section wise basis. All bidders must quote accordingly, otherwise bid will be summarily rejected.

NOTE:

Bidders are requested to visit AIIA, Sarita Vihar, New Delhi to assess the site condition of Equipment placement and installation in this Section. Bidders must take into consideration in its bid costs to be incurred for any additional work viz. Electrical cabling of suitable ratings, Electrical points of suitable ratings, water connection, water drainage, plumbing & allied requirement for the equipment etc. required for successful installation, commissioning and running of the Equipment and the "All inclusive lump sum price" should include all such costs.

INSTRUMENTATION SECTION

INSTRUMENTATION SECTION

S.NO	NAME OF THE EQUIPMENT/	SPECIFICATION
1	INSTRUMENT	Fully Committee and all all MV AC III Co. 1
1		Fully Computer controlled U.V./Visible Spectrophotometer based on latest technology, having following specifications: Optical system: Double Beam system with single Monochromator Light Source: Two independent high energy sources, D2 and Halogen Light Source changeover: Selectable between 300 & 350nm Detector: Photomultiplier Tube Wavelength Range: from 185 nm to 900 nm or better Wavelength Accuracy :±0.3 nm Wavelength Repeatability:±0.05 nm. Scanning Speed: 1–4000 nm/min. Spectral Bandwidth: 0.1 to 5 nm Resolution: 0.1 nm Photometric Range: -4 to 4 Abs 0 to 10000 %T Photometric Range: -4 to 4 Abs 0 to 10000 %T Photometric Range: -4 to 4 Abs (0 to 0.5 Abs) Photometric Rode: Abs, %T, %R. Noise: Less than 0.00005 Abs RMS (500 nm) Stray light: Less than 0.0005% (220 nm, Nal) Software (Windows7 compatible) includes – Spectrum, Data processing, Photometric, Kinetics and Inspection mode Main accessories: One pair of Quartz Cuvette, 10 mm pathlength, 3.5ml capacity Sultable computer with printer should be provided. 1.5 KVA Online UPS with 30 min back up Constant Temperature holder with temperature range from 10°C to 90°C Optional accessories: Reflectance measurement for Powders, Thin Films, Liquids, Solid Samples To extend wavelength range from 900 to 1300 nm One pair of D2 & Halogen light source lamp Long Path cell holder with one pair of 50 mm pathlength cuvette. All machines & equipment shall be WHO –GMP/GLP compliance model All machines & equipment shall be WHO –GMP/GLP compliance model All machines & equipment shall be WHO –GMP/GLP compliance model All machines & equipment shall be Fit into section which is 8.6 feet height All Equipments individually costing more than Rs.25,000/- to have DQ, IQ & OQ, Fat, MOC Certificate, GA Drawing of the machine, wiring diagram will be supplied with the machine.
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2	AAS	GMP/GLP Compliance model Based on latest/advance available technology & widely accepted by big pharma testing house Computer controlled high performance fully automatic true double beam atomic

absorption spectrophotometer with flame, Furnace & Hydride vapour generation operating on WINDOWS based software, in accordance to GLP/GMP norm for peration on 220 V/50 Hz.

- Optic : double beam
- Lamp Turret: 6 or more lamp automatic turret with independent power supplies with coded lamp compatible
- Monochromator with wavelength range 190-900 nm or higher sensivity, Holographic grating of high resolution holographic grating with 1800 lines/mm
- Must have wavelength locating by automatic pick searching, auto loading of all parameters' and auto bandwidth selection and continuously variable selection(Bandwidth selection with alternate switching) 0.1-2.0nm with D2 lamp background correction.
- Detecror: Photomultiplier/Solid state

Deuteium Background Correction

- Titanium burners for C2H2 –N2o and C2dH2- Air with precise knobs for burner optimization i.e. height, rotational and lateral.
- Fully inert nebulizer.
- Gas flow rate optimization, Gas System with automatic flame change over, ful
 safety interlock including pressure sensors on both lines, automatic flame
 extinction upon power failure, burner interlock and flame sensors, flame
 ignition should be automatic
- System should be with Hydride Generator & Graphite Furnace.
- Furnace: Graphite Furnace with temp range; upto 3000° C with 10 step or more
- Hydride Vapour Generator system: Automatic vapour generation system with nozzle to be controlled through software
- Automatic Auto sampler for flame, furnace & vapour generation system with 50 sample position or more & Graphite Furnace.
- Burner movement through computer, all three directional, height, rotation, lateral.
- PTFE spray chamber and adjustable impact bead aerosol.
- PC operating software should be able to run with MS window /open source software should be compliance with international quality norms and should have upgradable facility. Software control switching from flame to furnace and furnace to flame.
- Suitable computer system ISO certified and Lazer printer should be quoted.
 The system may also be upgraded with all major accessories. Suitable for 230V -50/60 Hz operation.
- Single element coded hollow cathode lamp Cu, Fe, Zn, Mn, Mg, B,Cd,Na,Pb,Hg,Ar and Mo.
- Hydride vapor generation system for arsenic, selenium and mercury cold vapors up to ppb level.
- Software operation on Windows for complete instrument control, data acquisition and processing as standard. System should have facilities of repeat of result of same sample and date treatment. Automatic calculation of percentage in base material.
- Final results should be obtained through software in ppm as well as in percentage.
 - Accessories- High pressure seamless gas cylinder filled Acetylene, Nitrous Oxide & argon gas cylinder with regulator (two stage regulator Acetylene, argon gas cylinder & two stage regulator with preheaterfor Nitrous Oxide gas cylinder)& oil free air compressor, air filter, voltage stabilizer spares and consumables for 2 year operations. SS Exhaust Fume Hood with inner centrifugal blower for exhausting hot fumes from ASS flame, Water circulation chiller operating unit for graphite furnace, aquous solution standard of Cu, Fe, Zn, Mn, Mg, B,Cd,Na,Pb,Hg,Ar and Mo,

Instruction manual and circuit diagram to be provided With Hollow Cathode Lamp Arsenic (Ar), Hollow Cathode Lamp Cadmium (Cd), Hollow Cathode Lamp Lead (Pb), Hollow Cathode Lamp Mercury,

Grapide tube- minimum 5 tubes to be quoted

#Suitable compatible computer with printer and 5 KVA online UPS with 30 minute backup should be Quoted (optional)

Free – Installation, demonstration & training at site for performance of complete system along with accessories is necessaries after delivery with operating manual.

- ▶ Independent UPS of Suitable rating with 30 minutes back up (GMP / GLP compliance.
- ➤ Based on Latest available technology and widely accepted by pharma testing House.
- All machines & equipment shall be WHO –GMP/GLP compliance model
- All machines & equipment shall be fit into section which is 8.6 feet height
- All Equipments individually costing more than Rs.25,000/- to have DQ, IQ & OQ, Fat, MOC Certificate, G.A Drawing of the machine, wiring diagram will be supplied with the machine.

NOTE:

Bidders are requested to visit AIIA, Sarita Vihar, New Delhi to assess the site condition of Equipment placement and installation in this Section. Bidders must take into consideration in its bid costs to be incurred for any additional work viz. Electrical cabling of suitable ratings, Electrical points of suitable ratings, water connection, water drainage, plumbing & allied requirement for the equipment etc. required for successful installation, commissioning and running of the Equipment and the "All inclusive lump sum price" should include all such costs.

3 HPLC

1. Quaternary Pump:

The Quaternary pump should ensure virtually pulse-free and stable solvent flow, with dual floating pistons in series, precisely servo-controlled. It should have variable stroke volume to allow pulse-free solvent delivery and efficient mixing. It should have an inlet-valve electronically activated and synchronized to piston stroke to eliminate vapor formation with volatile solvents.

Flow

Flow precision: ≤ 0.07 ¿ RSD, or ≤ 0.02 min SD whatever is greater, based on retention time at constant room temp.

Flow accuracy:± 1 % or 10 μ L/min whatever is greater.

Range: Set points from 0.001 to 10.0 ml/min, in 0.001 ml/min increments.

Pressure

Operating range: 0-400 bar

Pulsation: <2 % amplitude (typically <1 %) at 1 mL/min isopropanol at all

pressures >1 MPa (> 10 bar, >147 psi)

Compressibility compensation: User selectable, based on mobile phase compressibility.

Gradient

Delay volume : $800 - 1100~\mu L$ depending on back pressure Composition precision : <0.20~% SD, at 0.2 and 1 mL/min. GLP features: Electronic records of maintenance and errors.

2. Vacuum Degasser:

4 channel degasser having degassing principle based on passing solvent through a membrane tube which is permeable to gas but not liquid and kept at a constant vacuum level. Reduced baseline noise and quenching effects due to high degassing capacity.

Maximum flow rate: 10 mL/min per channel

Number of channels: 4

3. Auto sampler (min 100 vials capacity)

The auto sampler design must offer a flow through design with variable injection volume. It should have facility for overlapping injection.

Injection range : 0.1- 100 μ L in 0.1 μ L increments

Precision : <0.25% RSD from 5-100 μ L, <1% from 1-5 μ L, variable vol.

Sample viscosity range: 0.2 - 5 cp

Sample capacity: 100×2 -ml, 40×2 -ml, 15×6 -ml vials.

Injection cycle time: Typically 50 s depending on draw speed and injection vol

Carry-over : < 0.05 %

4. Column Oven (Heating and cooling facility)

Should accommodate three full-length, 30-cm columns. It should have simultaneous column identification for 2 columns. It should have Independent heat exchangers - two temperature zones possible with independent right and left set points by independent heat exchangers. There has to be Low dispersion - optimized for low internal volume contribution, just $9\,\mu\text{L}$.

Temperature range : 10 degrees below ambient to 80 °C.

Temperature stability: ± 0.15 °C

Temperature accuracy: ± 0.8 °C with calibration ± 0.5 °C

Column capacity: three 30-cm columns.

Heat-up/cool-down time : 5 min from ambient to 40 $^{\circ}\text{C}$ & 10 min from 40 $^{\circ}\text{C}$ to 20

°C

GLP: Column identification module for GLP documentation of column type

5. Photo Diode Array Detector:

It should have Deuterium and tungsten lamps with a wavelength range of 190 to 950 nm to offer an expanded detection range with lowest detection limit. It should have 1024 diodes and a 1-nm slit to achieve high spectral resolution. It should have Electronic temperature control to provide maximum baseline stability and practical sensitivity under fluctuating ambient temperature and humidity conditions. There has to be RFID tags for all flow cells and UV lamp provide new levels of data traceability by recording parameters, cell dimensions, lamp usage, etc.

Detector type: 1024-element diode array. Light source: Deuterium and tungsten lamp.

Number of signals: 8 Short-term noise: ± 0.8 x 10 -5 AU at 254 nm and at 750 nm.

Drift: 0.9 x 10 -3 AU/h at 254 nm.

Linearity: >2 AU upper limits. Wavelength range: 190-950 nm.

Wavelength accuracy : \pm 1 nm, self-calibration with deuterium lines, verification

with

holmium oxide filter.

Slit width: Programmable: 1, 2, 4, 8, 16 nm.

Diode width: < 1 nm.

Time programmable : Wavelength, polarity, peak width, lamp bandwidth, auto

balance

WL range, threshold, spectra storage mode.

Spectral tools: Data analysis software for spectra evaluation, including spectral

libraries and peak purity functions

6. UV Detector24

Detection type: Double-beam photometer

Light source : Deuterium lamp.

Noise: ± 0.75 x 10 -5 AU, at 254 nm.

Drift: 3 x 10-4AU/hr, at 254 nm. Linearity: >2 AU upper limits. Wavelength range: 190-600 nm.

Wavelength accuracy: ± 1 nm, self-calibration with deuterium lines, verification

with helium oxide filter

Wavelength bandwidth: 6.5 nm typical over whole wavelength range.

Maximum data rate: 13 Hz.

Flow cells: Standard: 14-μL volume, 10-mm cell path length and 40 bar (588 psi)

pressure maximum

High Pressure : $14-\mu L$ volume, 10-mm cell path length and 400 bar (5880 psi)

Pressure

maximum Micro : 1- μL volume, 5-mm cell path length and 40 bar (588 psi)

pressure

maximum Semi micro: 5-μL volume, 6-mm cell path length and 40 bar (588 psi)

pressure max Communications: Controller-area network (CAN), RS-232. APG Remote: ready, stop and shut-down signals, LAN optional Safety and maintenance: Extensive diagnostics, error detection and display through control module, leak detection, safe leak handling, and leak output signal for shutdown of pumping system. Low voltages in major maintenance GLP: Electronic records of maintenance and errors. Verification of wavelength accuracy with built-in holmium oxide filter. Chromatography Manager Licensed Software 32 bit with 21 CFR Compliance. Power automation tools with smart sequence Extensive reporting capabilities with built-in calculations For increase productivity Powerful customization tool kits adopt software to dedicated Lab workflows Diagnostics/maintenance/EMF Parameter validation management. Compatibility with diode array, UV/Vis, RI and Fluorescence detectors Compatibility to import and export the data. Ability to acquire and analyses and store spectral library Flexible report publisher to make report in desired format. With PC & Laser printer. (Specifications of PC is attached separately at the end) Free- Installation, demonstration & training at site with operating manual. Charges for AMC & all items should be quoted separately ➤ Independent UPS of Suitable rating with 30 minutes back – up (GMP / GLP compliance. > Based on Latest available technology and widely accepted by pharma testing House. All machines & equipment shall be WHO –GMP/GLP compliance model All machines & equipment shall be fit into section which is 8.6 feet height All Equipments individually costing more than Rs.25,000/- to have DQ, IQ & OQ, Fat, MOC Certificate, G.A Drawing of the machine, wiring diagram will be supplied with the machine. NOTE: Bidders are requested to visit AIIA, Sarita Vihar, New Delhi to assess the site condition of Equipment placement and installation in this Section. Bidders must take into consideration in its bid costs to be incurred for any additional work viz. Electrical cabling of suitable ratings, Electrical points of suitable ratings, water connection, water drainage, plumbing & allied requirement for the equipment etc. required for successful installation, commissioning and running of the Equipment and the "All inclusive lump sum price" should include all such costs. 4 **HPTLC** GMP/GLP Compliance model Based on latest available technology & widely accepted by pharma testing house Suitable for following uses Application/Use a.-Best Chromatography technique :Precise & accurate chromatography technique for Finger printing & Analysis of various constituents/Compounds of Herbal / Medicinal plant based medicines. b.-Qualitative & quantitative detection analysis of Herbal/Medicinal plant based formulated medicine. c.-Detect & brief information by densitometric evolution about -Maximum wavelength λ max ,Rf. Value ,Area% of separated components Finger printing identification in Herbal & medicinal plant based Extract mixture. System specification System Manager Controlled High Performance Thin Layer Chromatograph for

- quantification, identification, finger printing and micro-preparative separations
- Integrated HPTLC SYSTEM MANAGER software. To document, control and manage all the instrumental steps of HPTLC analysis incl. application, development, scanning and photorecording and documentation.32 bit, windows XP based, upgradable.
- 2. Fully automated (25 μ I syringe, contact & spray on applicator) Sample Applicator: For spot / line application, spray on technique, 4 mode of applications---Quantitative analysis, micro-preparative, insitu and superimpose. 10-method storage, stand-alone or PC control. For Analytical work (0-10 mm band / 0.1 to 20 μ L vol.) and preparative work (190mm band, 500 μ L vol.) sample positioning on X & Y axis freely selectable, variable rate of delivery, easy to clean sample syringe, accepting 100 & 500 syringe, self diagnostic built in. Validation built in. Link to System Manager.
- 3. **CHROMATOGRAM DEVELOPMENT CHAMBERS** (Twin Trough Chambers) All glass, small internal volume chambers, bottom divided into two halves; maximum 5-15 ml mobile phase / run S.S. lid appropriate size tanks for 20 x 20 (1 no), 20 x 10 (1 no), 10 x 10 (1no), 10 x 5 cm (1 no) Plates.
- 4. HORIZONTAL VARIO CHAMBER FOR METHOD DEVELOPMENT (Vario Chamber) Horizontal Development Chamber for method development, rapid screening & horizontal development. For 10 x 10 cm plates (1 no). Can run six mobile phases on one plate, side by side, at the same time. Sandwich or tank saturation conditions can be standardized. Can standardise a new HPTLC method in 3 to 5 runs. Method development procedure included.

5. IMMERSION DEVICE FOR DERIVATISATION

Suitable for 20 x 20 cm & 20 x 10 cm plates; Universal plate holder clamp; Dipping speed - 30 mm to 50 mm /sec., variable; Dip time - 1 to 8 secs. + indefinite. Ribbed and narrow dip chambers for low volume of reagent.

6. AUTOMATIC TLC SPRAYER

Pneumatic, cordless, using rechargeable batteries, spray heads, bottles of 50 or 100 ml attachable

- 7. **PHOTO DOCUMENTATION** capable UV Cabinet Dual wavelength UV Cabinet with 254 & 366 nm illumination computer aided design. Removable lamp: 25 KHz flicker free illumination. Auto shut off of UV lamps. Completely safe to viewer. UV absorbing viewing window. Rolling shutter door with facility to mount digital camera.
- TLC SCANNER & Data evaluation-Computer controlled Scanner / Densitometer for automatic spectrum scanning for identification and purity check. Automatic quantitative measurement by absorbance & fluorescence. All TLC / HPTLC plate sizes acceptable. Scan speed 100 mm / sec @ 25 µm resolution, Wavelength range 190-900 nm. Monochromator flushing by Nitrogen. Data sampling rate – 4000 / sec. Optics for HPTLCmeasurements. Spectrum scan speed 100 nm / sec. Max 999 spectra / plate. Visible pilot slit image /scan compartment illumination with UV to check sample alignment with scan beam. D2, Hg, W. lamps + self diagnostic + Service dialog + Universal filter for fluorescence all built-in, scan slit size, variable, bandwidth selectable 5 & 20nm. Easy to load plate. Small footprint. Data evaluation 32 bit software (latest version), Improved S/N ratio. Improved reproducibility. Linked to System Manager, Automatic / Manual integration, Auto baseline correction. Spot check facility. 3D display with data storage. Calibration - single level, multilevel, linear / non-linear. Statistics CV / CI. Reproducibility check facility. Auto calculation of data from wts and dil. factors, Computer generated random no. for each report (GLP). Lamp use tracking. 2 level digital user manual. Service Dialog + self Diagnostics + Tutorial all built – in. Meets GLP. Optional

IO-OO and 21 CFR Rule 11 certification.

9. **OPTIONS FOR TLC/HPTLC SCANNER** Multi wavelength scans upto 31 wavelengths. Data stored. Auto calculation. Data displayed in 3 ways. Colour plots of data and quantification with respect to λ max of separated fractions. Also in absorption & uorescence mode. Spectrum Library. Facility to create your own UV-VIS library. 999 spectra storage per file. All files searched automatically and sequentially for λ max as well as Rf. Spares, Accessories, Consumables, Preinstallation Requirements Supplier must offer free installation, frequent training, standard substances where possible, local lab support, local spares stock etc. HPTLC System must meet all latest requirements of safety, conformity,ISO, GLP etc.

Other requirements: Validation of instruments should be routinely possible. System should be upgradable. Since analytical research will be required to standardize new methods, we expect support for the suppliers in the form of literature survey, method development, method standardization, double check of analysis etc without any charge, locally from India.

- 1. Computer (Intel duel core, processor, 1GB RAM, 320 hard disc)
- 2. Printer (Colour)
- 3. UPS 1 Kv + A/c
- 4. Furniture
- 5. Nitrogen LR grade 1 cylinder

Chromatogram Immersion

Device for Derivatization : Uniform distribution of derivatization reagent .Suitable for 20×20 cm. & 20×10 cm plates ; Universal plate holder clamp, Complete with 20×10 cm dip tank & SS lid.

TLC/HPTLC Plate Heater: Stain resistance CERAN® glass top; temperature range 25 to 200°C. Uniform heating of plate. Digital display of set & actual temperature. **Spray Box with Ventilation:** TLC Spray box/cabinet ensures the complete removal of reagent mist while spraying TLC plates there is no deflection of the spray jet before it reaches the chromatogram an effect often occurring in a normal laboratory fume hood.

TLC/HPTLC - Sprayer:The TLC/HPTLC Sprayer consists of a charge and pump unit with two kinds of spray heads. Spray head type A is for spray solutions of normal viscosity eg.- lower alcohol solutions; spray head type B is for liquids of higher viscosity eg.-sulfuric acid reagents. TLC Sprayer comprised of charger unit, pump unit with bottle clamp and connecting tube, on each spray head type and B one each reagent bottle 100ml and 50ml with cap.

Reagent Sprayer(all glass): This all glass reagent sprayer is a low cost yet efficient alternative to the TLC/HPTLC Sprayer. It comes with a rubber pump but may also be operated from a compressed air or nitrogen supply. Reagent Sprayer all glass with 100ml Erlenmeyer flask.

TLC/HPTLC-Rapid test Set : Consisting of 1H-separation chamber 50×50 mm,1 application template 50×50 mm.

- -100 micro capillaries 0.5µl with holder,10ml each of lipophylic and hydrophilic test solution.
- 100 HPTLC ready to use plates K60F 254 50× 50 mm. & concise Practical book of TLC two sets.

UV Inspection/ UV Cabinet:

The UV Cabinet with UV lamp is suitable for inspectingthin layer Chromatograms and other objects in an undarkened room. The front of the box is closed with a roller shutter, which can be pushed open to the left or to the right as required for viewing window protects the eyes against reflected shot-wave UV light. Great care has been taken to ensure the correct distances between lamp.

Two wavelength built-in:

254 nm, shot wave UV - direct light
366 nm, long wave UV - direct light
light tubes - 8W
Powered supplied - 12V AC
Light efficiency - 25-30 KHz AC.

TLC Dip-Fix: For the uniformity of dipping chromatograms. To ensures

	T	
		uniform and reproducible reagent transfer, improved detection limits and
		increased specificity and reproducibility. Spares, Accessories:
		1UV protective goggles - 1 pair
		2TLC/HPTLC - Sprayer &Reagent Sprayer(all glass) - 1 No each
		3 Consisting of 1H-separation chamber 50 × 50 mm,1 application template 50 ×
		50 mm 1 No set.
		4 100 micro capillaries 0.5µl with holder,10ml each of lipophylic and hydrophilic
		test solution 1 No set.
		5 100 HPTLC ready to use plates K60F 254 50× 50 mm.
		- 1 No set.
		6 Concise Practical book of TLC/HPTLC 2 No sets. 7. PC Pranded (Compage (Dell/LIP) Intel Contrine Latest PC with Built in Factory.
		7 PC Branded (Compaq/Dell/HP.),Intel Centrino, Latest PC with Built-in Factory Installed Operating System-Microsoft®, -32bit software operating under Window
		® XP (latest version) with lab solution series work station -21 CFR. part 11
		software.
		-Memory -4GB,Non-ECC,1066 MHz,DDR3,4GB Four DIMM slots., Hard Drive -
		1000GB SATA,7200 RPM, - connect with laser printer and online UPS with 30
		min.backup 1No each
		8Nitrogen gas Cylinder with safety device - 1 No
		9 Gas Cylinder regulator - 2 Nos.to be supplied before
		installation.
		All machines & equipment shall be WHO –GMP/GLP compliance model All machines & equipment shall be fit into eaching which is 8.4 feat beingth.
		All machines & equipment shall be fit into section which is 8.6 feet height
		All Equipments individually costing more than Rs.25,000/- to have DQ, IQ &
		OQ , Fat, MOC Certificate, G.A Drawing of the machine, wiring diagram will be
		supplied with the machine.
		NOTE:
		Bidders are requested to visit AIIA, Sarita Vihar, New Delhi to assess the site
		condition of Equipment placement and installation in this Section. Bidders must take into consideration in its bid costs to be incurred for any additional work viz.
		Electrical cabling of suitable ratings, Electrical points of suitable ratings, water
		connection, water drainage, plumbing & allied requirement for the equipment etc.
		required for successful installation, commissioning and running of the Equipment
		and the "All inclusive lump sum price" should include all such costs.
5	GCMS	GCMS Triple Quadra This instrument specification is for a bench-top mass
		spectrometer configured for integrated GC/MS/MS analysis of Pesticide residues in
		Fruits and vegetables as well as for other applications like Persistent Organic
		Pollutants. Tandem mass spectrometry on space and tandem mass spectrometry
		on time will be considered.
		1. ION SOURCE
		The mass spectrometer must be able to operate in EI and CI modes
		A source isolation valve must be fitted to allow change of ionisation mode (EI
		/CI) without breaking instrument vacuum.
		A probe vacuum lock must be fitted to allow direct insertion probe to be
		inserted without breaking instrument vacuum.
		Positive and negative ionisation capabilities must be included as standard
		feature on the instrument.
		The inner source housing must be isolated to allow rapid source maintenance
		without the need to vent the system
		• GC Interface: Simple, robust, GC re-entrant tube capable of heating to 350 OC.
		The re-entrant and heater is held entirely in high vacuum minimising heat
		losses and reducing hot or cold spots
		2. MASS ANALYSER
		The instrument must incorporate a high performance mass analyser with
		resolution of 0.5 amu or better.
	1	resolution of old and or petter.

- For triple quadrupole system, the instrument must incorporate two quadrupole mass analysers (MS1 and MS2) each having a mass (m/z) range up to at least 900 amu. The resolving quadrupoles must be fitted with quadrupole pre-filters to maximise resolution and transmission and also to protect the resolving quadrupoles from contamination.
- All lenses and analyser voltages must be digitally controlled
- The analysers must be supplied with RF using solid-state RF generators.

3. COLLISION CELL

- A high efficiency, RF device with beam focusing at ion entry and exit must serve as the collision cell. Collision energy must be digitally controlled.
- Collision cell gas pressure must be directly monitored in the range 1x 10-4 to 1m bar
- Collision gas introduction and pump out must be through data system control.
 Collision gas pressures used during data acquisition must be automatically appended to the relevant data file.

4. DETECTOR

- The instrument must incorporate an off-axis dynolite photomultiplier detector. A high voltage conversion dynode and a high voltage phosphor must be positioned at 90° to the analyser for the elimination of neutral noise.
- The photomultiplier must be enclosed in its own vacuum envelope for long life
- The detector must operate in both positive and negative ion modes.
- The detector must have a digital dynamic range of 4 e6

5. VACUUM SYSTEM

- The instrument must incorporate a clean differentially pumped, automated vacuum system. There must be aircooled turbomoleculer pumps evacuating the source & analyzer with total vacuum capacity of more than 300 L/sec or better An external, chilled water supply must not be required for the vacuum system.
- Vacuum read backs and system vent/pump cycles must be digitally monitored and controlled, to provide total software control and to ensure fail-safe operation in the event of power failure.

6. GC AND ANCILLARY DEVICES

- Fast GC of highest specification, with control of Gas Chromatograph within the MS acquisition software
- with temperature range up to 450°C and Max. ramp rate of 125°C/min or more
- Fast GC with Cooling rate from 450 °C to 50 °C within 4 minutes or better
- FID with sensitivity of < 1.5 pgC/ seconds & Linear dynamic range: 107 or better
- Control over the auto samplers must be provided through the MS acquisition software.
- Autosampler should be of 100 vials.
- Autosampler
- Autosampler vials: 200 vials for liquid
- Split/Splitless and On-Column Injection PTV-large volume injection
- Back-flush facility
- The MS acquisition software must incorporate an inlet configuration wizard that allows the user to easily configure their specified GC system.

SOFTWARE

• The PC must be configured with a Microsoft Windows operating system, featuring a graphical user interface with multiple windows, pull down menus and toolbars. The MS control software must be a Windows based platform and have the ability to control both the MS and specified GC and auto sampler devices.

- A fully synchronised real time data display within a window on the monitor must be provided for ion beam and instrument display
- It must be possible to acquire spectral data in a multi channel analysis (MCA, profile) data mode.
- It must be possible to acquire spectral data by MS selected ion recording (SIR).
- It must be possible to acquire spectral data by MS-MS precursor scanning (parent).
- It must be possible to acquire spectral data by MS-MS product scanning (daughter)
- It must be possible to acquire spectral data by MS-MS neutral loss and neutral gain scanning.
- It must be possible to acquire spectral data by MS-MS multiple reaction monitoring (MRM)
- Latest NIST spectral library to be supplied along with the instrument.

7.a) TARGETED, QUALITY CONTROL QUANTIFICATION SOFTWARE

- Software for quantitative applications having the additional requirement of Quality Control (QC) checks to satisfy statutory or regulatory requirements must be available.
- Data can be full scan, SIR/SIM or MRM.
- PESTICIDE DATABASE- The Accurate mass pesticide database must be quoted with system. The added detection combined with database enables users more confidently screens the lowest level pesticides in the most complex matrices, Data Acquisition, Peak Integration, Calibration, Quantification and QC calculations must be fully automated.
- Quantification and QC parameters must be stored for each compound and individually selected and loaded into new methods.
- The quantification method editor must be viewable in page view or as a spreadsheet
- Software must allow the monitoring of the molecular ion plus up to 4 confirmatory ions.
- Software must flag samples in the browser report when:
 - (a) the ion ratios fall out-with the user-defined values
 - (b) the maximum blank acceptance level (user input) has been exceeded
 - (c) the maximum concentration limit (user input) has been exceeded
 - (d) the concentration is below the reporting concentration limit (user input)
 - (e) the concentration falls below the minimum recovery % level (user input)
 - (f) the concentration falls above the maximum recovery % level (user input)
 - (g) the coefficient of determination for a calibration curve falls below a userset level
 - (h) QC samples fall outside a user-defined number of standard deviations from the mean
 - (i) the peak of the compound of interest falls below a user defined S/N ratio QC parameters should include:
- Up to six ion ratios with automated batch to batch up-date.
- Retention time tolerance with automated batch to batch up-date.
- Signal to noise ratio.
- Per cent recovery calculation.
- Calculation of variation in response factor.
 Software should fulfill analyte confirmation requirements in food analysis when analyzing for regulated pesticide or antibiotic residues
- Software should provide exceptional efficiency for the location, peak detection and generation of 'clean' mass spectra of closely eluting components in

complex mixtures with the ability to retain exact mass measurements where available through a chromatographic deconvolution algorithm.

Software should provide:

- Automatic deconvolution of complex chromatograms
- A list of unique (or common) components
- Deconvoluted mass spectra
- Automatic library searching against commercially available libraries
- Comparison of deconvoluted chromatograms
- Semi-quantitative reporting of deconvoluted component concentrations

8. PERFORMANCE SPECIFICATIONS

SCAN SPEED

 The instrument must have a maximum scan speed of 11000 amu/second or better

MASS RANGE Up to 1000 or above

COLLSION ENERGY: The collision energy is programmable to 60 eV MASS STABILITY

The instrument must exhibit a maximum mass drift of less than 0.1Da in 24 h. LINEARITY OF RESPONSE

The linearity of response relative to sample concentration, for a specified compound, must be 6 orders of magnitude from the limit of detection or better.

MRM / SIR ACQUISITION SPEED

The instrument must be capable of acquiring acquire data in maximum MRM speed of 500 MRMs/sec OR SRM Speed: minimum of 11000 in one run SIGNAL-TO-NOISE

The measured signal-to-noise ratio obtained from the mass chromatogram of m/z 272 generated in EI mode on injection of 1.0 pg octafluoronapthalene onto a capillary column must be greater than 800:1

- CI PCI Full Scan 100 pg Benzophenone m/z 183 ≥ 500:1
- NCI Full Scan 1.0 pg OFN m/z 272 ≥ 5000:1
- MRM SIGNAL-TO-NOISE
- The measured signal-to-noise ration obtained from the mass chromatogram of the daughter ion at m/z 241 generated in MRM, EI mode, on injection of 100 fg octafluoronapthalene onto a capillary column will be greater than 5000:1.
- Computer and Printer

Intel core i5 processor, 4GB RAM, 500 GB hard disk, 18" LCD display, licensed Windows 7 and printer. The computer should be compatible with hardware.

- UPS 10 KVA (or higher if required) with 1 hour battery backup.
- Start up kit
 - 1. Installation kit must be quoted & included
 - 2. Four stage Gas purification panel
 - 3. Gas Cylinders & dual stage regulators (one for each type of gas): Helium, Nitrogen, Argon, Hydrogen, Zero Air, Methane, Isobutane along with Copper/SS tubing, nuts and ferrules for all the gases.
- J. ACCESSORIES AND CONSUMABLES:
 - 1. Syringe for manual and auto sampler injection (05 No each).
 - 2. Auto sampler vials: 200 vials with screw cap.
 - 3. Graphite ferrules for capillary columns (10 no.).
 - 4. Septa for injector (100 nos.).
 - 5. Inlet liner (with glass/quartz wool at optimum position) for Splitless, Split and PTV (05 no. each).
 - 6. O-ring for injector liner (30 no.)
 - 7. El Filaments (05 no.)

- 8. Column cutter (01 no.)
- 9. Gas tube cutter (01 no.)

10. Tool kit

Columns:

- 30 Meter length 0.25 mm ID polar and non-polar capillary column 01 no. each
- Authorized dealership certificate to be included
- Training at site for method development and instrument usage for one week.
- Free- Installation, demonstration.
 - All machines & equipment shall be WHO –GMP/GLP compliance model
- All machines & equipment shall be fit into section which is 8.6 feet height
- All Equipments individually costing more than Rs.25,000/- to have DQ, IQ & OQ, Fat, MOC Certificate, G.A Drawing of the machine, wiring diagram will be supplied with the machine.

NOTE:

Bidders are requested to visit AIIA, Sarita Vihar, New Delhi to assess the site condition of Equipment placement and installation in this Section. Bidders must take into consideration in its bid costs to be incurred for any additional work viz. Electrical cabling of suitable ratings, Electrical points of suitable ratings, water connection, water drainage, plumbing & allied requirement for the equipment etc. required for successful installation, commissioning and running of the Equipment and the "All inclusive lump sum price" should include all such costs.

6 Water purification system

- GMP/GLP Compliance model
- Based on latest available technology & widely accepted by pharma testing house

A single system should be capable of producing ASTM type I & type II DNA & RNA free water, from potable soften feed water.

2. A external pre-treatment should be offered as a part of the system for 10", 5 micron particulate filter cartridge and

10" active carbon cartridges.

- 3. System should accept feed water pressure from 0 to5 bar, without the need of external booster pump installation.
- 4. Should have built in 2-in-1 pre-treatment cartridge (inside the system) for treatment of feed water with active
- carbon and 1 micron particulate matter.
- 5. System should have Reverse Osmosis technology to produce pure water with recovery rates of minimum of 30%
- at the flow rate of 20 ltr/hr followed by continues Electro-deionization (Elion).
- 6. System should be equipped with conductivity measurement after RO and a permeate diverter valve in case purity exceeds the set limits.
- 7. System should be equipped conditioning module to remove remaining hardness after RO Followed by two-stage,

separate bed electro de-ionization module, for 20 ltr/hr flow rate with minimum 90% recovery followed by

conductivity measurement.

- 8. An integrated system 60 ltr PE tank with total draining facility should be a part of system. The tank should be α
- equipped with level sensing from 0-100% in steps of 1 %. It should be also equipped with:
 - A tap in the middle so the 50% of the water is reserved to be utilized for preparing ultra pure water.
 - A programmable UV submersible lamp.
 - A Vent filter with CO2 traps.
- 9. System should be equipped with polishing treatment for pre-purified water, to produce Ultra pure water of type I,

polishing channel should include dual wavelength UV oxidation chamber, polishing cartridge with nuclear grade resins and high quality carbon exchanger followed by ultra filtration module having cut off at 5000 Daltons followed by conductivity measurement and final point of use filter (multi time Autoclavable) of 0.1 micron, 1000 sq.cm within the circulation loop & should be located inside the system. The facility of built in automatic flush cycle should be a standard feature of the system. 10. System should be equipped with sturdy, flexible remote arm PVDF dispenser of approx. 1Mtr radius for Ultra pure water. System should have special features such as volume control dispensing, 24 hour circulation more and low sound level <40 dba.

- 11. System should be equipped with centralized microprocessor controller which controls all the operations of system. It should also have RS-485 interface.
- 12. System should be equipped with backlit graphical LCD display, which should indicate purity of water after every stage of purification (minimum 3 stages) and tank level simultaneously. It should also notify user for any malfunction of the system with warning of change of cartridges if any.
- 13. Microprocessor should monitor operating hours, UV light hours and should be capable of timer programming for circulation loop external UV on/off.
- 14. The system should have option of wall mounting and should be compact with the dimension of around 535mm (H) x 900 mm (W) x 320 mm (D).

Product water specification in tank:

Flow rate: 20 Ltr/hr.

Typical conductivity: 0.060 to $0.2 \mu S/cm$.

Product water specifications for Ultra pure water:

Flow rate : upto 1.8 ltr/min Conductivity: $0.055~\mu S/cm$ Resistivity: $18.2~M\Omega$ -cm. Bacteria: < 1~cfu/ml TOC: < 1~ppb.

Particles > 0.1 micron: < 1 per ml. Endotoxins : < 0.001 EU/ml

Free- Installation, demonstration & training at site with operating manual.

Or separate quote may be another type ULTRAPURE WATER PURIFICATION SYSTEM

SPECIFICATION DETAILS:

Pure, Ultra pure water system for highly purified water producer laboratory unit, for the purposes of uses in highly sophisticated laboratory equipments wherever using sub- $2\mu m$ particles and high pressures to enhance analytical speed and sensitivity, water quality is very crucial ,so important need of use of highly Pure, Ultra pure water for the high performance operation and result orientation handling on the sophisticated laboratory equipments.

ASTM Water grade: Produces the ASTM Water grade I,III,&IV

Capacity: Min. 5 Liters per 30 Minutes

Water Quality: Ultra pure & Highly reliable, desired water quality

- Easy-to-use
- Digital wide graphic display system
- Auto-start system after high voltage input.
- System connect with online UPS with 30 min. backup.
- ISO and certified CE and NEP
- Compatible with all SYSTEM Accessories.
- ➤ Independent UPS of Suitable rating with 30 minutes back up (GMP / GLP compliance.
- Based on Latest available technology and widely accepted by pharma testing House.
- All machines & equipment shall be WHO –GMP/GLP compliance model
- All machines & equipment shall be fit into section which is 8.6 feet height
- All Equipments individually costing more than Rs.25,000/- to have DQ, IQ & OQ, Fat, MOC Certificate, G.A Drawing of the machine, wiring diagram will be

HSCC (India) Limited

supplied with the machine.
NOTE:
Bidders are requested to visit AIIA, Sarita Vihar, New Delhi to assess the site condition of Equipment placement and installation in this Section.
Bidders must take into consideration in its bid costs to be incurred for any
additional work viz. Electrical cabling of suitable ratings, Electrical points of
suitable ratings, water connection, water drainage, plumbing & allied requirement for the equipment etc. required for successful installation,
commissioning and running of the Equipment and the "All inclusive lump
sum price" should include all such costs

In Instrumentation Section Bidders are requested to quote equipments on individual equipment basis and their evaluation will be done accordingly.

PHARMACOGNOSY SECTION

PHARMACOGNOSY SECTION

		HARIVIACOGINOST SECTION
S.NO	NAME OF THE EQUIPMENT/ INSTRUMENT	SPECIFICATION
1	Microtome	 GMP/GLP Compliance model Based on latest available technology & widely accepted by pharma testing house for Pharmacognosy section Digital model Range of section thickness: 0.5μm to 60μm Increments Horizontal Specimen Advance : 40 mm Vertical Stroke : 70 mm Specimen Size Standard : maximum 55mm x 55mm Hand wheel Locking Coarse Advance : Front positioned hand wheel Specimen Retraction : on return stroke approx. 80μm Auto-Trim in 3 steps : Trimlevel: 1:10μm,2:20μm, 3:30μm Dimensions LWH: 46x46x28 cm
2	Dissecting microscope	 Separate coarse & fine adjustment, Square stage with mechanical stage, Movable condenser, microscope is inclined up to 90 degree with mechanical tube length 160mm Objectives "self" para-focal achromatic objectives 10 x 45x/45x (S.L.) and 100x (oil immersion) eye-pieces: huygenian 10x & 5x or 10x
3	Camera lucida prism type and mirror type	 GMP/GLP Compliance model Based on latest available technology & widely accepted by pharma testing house for Pharmacognosy section Camera Lucida (prism) type for making line drawings of the powder drugs
4	Binocular microscope with camera	 Binocular observation head model, inclination 45 degree, interpupillary distance adjustment range 53-75 mm, diopter adjustment on the left. Achromatic objectives: 4x, 10x, 40x (spring), 100x (spring, oil). All antifungal coated. Eyepiece: 10x LB wide field, antifungal coated. Focusing by coaxial coarse and fine roller guide (rack and pinion type). Coarse movement stroke 20 mm. Tension adjustment on right. Quadruple revolving nosepiece (fixed). Plane stage 120 x 132 mm. With mechanical stage right hand coaxial drive. Abe condenser 1.25 (oil immersion), vertical adjustment range 10 mm, with aperture iris diaphragm. Blue filter
5	Trinocular	 Built-in 6V, 20W halogen light illuminator, quadruple ball bearing nosepiece. Coaxial coarse & fine focusing controls. Co-axial low drive mechanical stage, focusable sub stage Abe condenser (NA 1.25) with iris diaphragm. High resolution long barrel achromatic objectives 4X, 10X, 40X & 100X (spring, oil immersion). Paired Wide field eyepiece WF10X. With inclined trinocular observation head.
6	Stereo microscope	 Wide-ranging 16.4:1 zoom ratio for macro-to-micro stereoscopic viewing High working efficiency and operating ease

		- Francomic observation tube design for reduced energter fetigue
7	Crysotat	Ergonomic observation tube design for reduced operator fatigue Tagging and tagging the second of the second operator fatigue.
'	Cryostat	Temperature Range: Up to - 40° C
		Section Thickness Indication : Visual display
		• Range of section thickness: 1 - 60μm, 2 to 10 in 1 μm steps; 10 to
		20 in 2 μm steps ; 20 to 60 in 5 μm steps
		Horizontal specimen feed: 25 mm
		 Vertical specimen stroke : 60 mm(+/-1mm)
		Knife Holder Adjustments: North-south Adjustment with
		Clockwise Clamping Mechanism Reverse Wheel Trimming
		Operation with reverse Wheel (Forward & reverse buttons)
		• Type of Knife used Microtome Knives of size 100-180MM
		Disposable Blade
8	Micro Image	
	Projection	or Trinocular port
	System (MIPS)	 Control Communication through USB 2.0 for complete handling through
	, , , , , , , , , , , , , , , , , , , ,	PC. Usable through Laptop as well as desktops
		 ¼ Interline Transfer CCD Sensor provides true color image
		 Connectivity through USB 2.0 provides 25 frames/sec.
		Large view area from 240 x 240 up to 720 x 576 pixels (Selectable through coffware)
		through software)
		Sensitivity < 1.0 Lux for excellent low light performance Sensitivity < 1.0 Lux for excellent low light performance
		Signal to noise ratio > 48 dB (AGC off) for high quality image
		Back light compensation for balancing the light on the specimen
		CCD Iris Control and Shutter speeds from 1/50 to 1/100000 for
		Automatic / Manual adjustment of light intensity
		Auto White Balance and Manual White Balance modes for
		accommodating different light sources like halogen, tungsten, etc
		 Power supply through USB bus for convenient single cable operation
		The Optics are Anti-Fungus Treated ensures image excellence for long
		periods in conditions which favor fungus growth
		Multilayer coatings on Optics through a special lens coating machine to
		minimize lens surface reflections & eliminate flare and determine the
		best combination to achieve higher image contrast & to resulting the
		minimum distance at which two minute dots in a specimen can be clearly
		distinguished
9	SLR Camera	Optimal balance of three performance factors High Image Quality
		New TruePicV+ Image Processing Engine
		12.3-megapixel High-Speed Live MOS Sensor
		3.0-Inch, 920,000-dot Flexible-Angle LCD
		Live View Shooting
		HDMI output/stereo microphone input terminals Three Way Centrals
		Three-Way Controls Duilt in Flack with Commander Function
		Built-in Flash with Commander Function Light Malacian
		Light Metering
		Underwater White Balance Control
		Face Detection & Shadow Adjustment
10	Aluminium slide	GMP/GLP Compliance model
	trays	Based on latest available technology & widely accepted by pharma
		testing house for Pharmacognosy section

11	Microslide	GMP/GLP Compliance model
	cabinet	Based on latest available technology & widely accepted by pharma
		testing house for Pharmacognosy section
12	Chemical balance	GMP/GLP Compliance model
		Based on latest available technology & widely accepted by pharma
		testing house for Pharmacognosy section
13	Water bath	• Dimensions
	(stainless steel	External: 332w x 185d x 290h mm
	body-6 holes)	Internal: 300w x 150d x 150h mm
		Packed: 383 x 232 x 292mm
		• Capacity
		Nominal Tank Capacity: 4 Litres
		Brimful Capacity: 6 litres
		Temperature Range
		Ambient +5°C - 99°C
14	Muffle furnace	Internal Dimensions of the furnace (D ×W × H) in mm 300×200×200
	(Digital)	(Minimum)
		Working Temperature: 1350°C or better
		Heating Element: Silicon Carbide
		Temperature Accuracy: }2 ^o C or better
		Temperature Control: Through microprocessor based PID controller
		with minimum 30 steps
		Furnace Insulation: Ceramic wool
		Temperature settings & Display: Digital and double display
		Power source: 220 V, 50Hz single phase
		Out body and inner body: Stainless Steel
		Accessories required
		Stainless Steel Tongs (15-20 Inch)- 02 No
		Furnace gloves-02 Pairs
15	Stage	GMP/GLP Compliance model
	micrometer	Based on latest available technology & widely accepted by pharma
		testing house for Pharmacognosy section
16	Ocular	GMP/GLP Compliance model
	micrometer	Based on latest available technology & widely accepted by pharma
		testing house for Pharmacognosy section
17	Hot air oven	GMP/GLP Compliance model
	(Digital)	Based on latest available technology & widely accepted by pharma
		testing house for Pharmacognosy section
		Ovens triple walled
		• Inner chamber made of either M.S. or S.S.304
		Gap between the two walled filled with ceramic insulation to avoid heat
		of loses with insulation of 150 mm
		Heating element are made of special type air heater of S.S. 'U' Type tubular heater
		tubular heater
		With special type of wiring connection from out side body Supplied with air draft materized blower to sirculate uniform temp.
		• Supplied with air draft motorized blower to circulate uniform temp.
		Thought out chamber temp. range 50°C to 400°C with accuracy of ± 2°C
10	Clayongon	controlled by digital temp. Controller cum indicator
18	Clavenger	GMP/GLP Compliance model Resod on latest available technology & widely acconted by pharma
	apparatus	Based on latest available technology & widely accepted by pharma testing house for Pharmacogness section.
		testing house for Pharmacognosy section

		For determination of volatile oil lighter than water comprising of
		1000ml. Flask, oil separator tube and condenser.
19	Water distillation unit	 Made completely from borosilicate glass with protective case that has easy access to the heater elements and glass parts. Automatic function and continuous production.
		Produces high quality double distilled water free from pyrogen and metallic ions.
		It functions through a dual distillation process:
		Complete with 4 quartz heater elements and three safety systems.
		 Depending on the electrical installation, the user can configure the double distiller for
		the following power sources:
		• Voltage: 230 V / I, 50/60 Hz = 26.8 A
		• Voltage: 230 V / III, 50/60 Hz = 15.11 A
		• Voltage: 400 V / III+N, 50/60 Hz = 8.67 A
20	Hot plates	GMP/GLP Compliance model
		Based on latest available technology & widely accepted by pharma testing
04	D (')	house for Pharmacognosy section
21	Refrigerator	Capacity: 215 litres
		Double Door
		Auto Defrost
		Works without Stabilizer
		• 5 Star rating (BEE level)
		 Any other perquisite required if any with specifications should be included to run and installation of the instrument
		# Separte quote may be for various other available capacity
22	Other related	GMP/GLP Compliance model
	silica crucible equipments,	Quote for various laboratory glass ware, silica crucible etc of standards make which is widely accepted by pharma testing house
		Glassware of class A and class B
		Glasswares can be quote for following available make:- Borosil / Duran / Corning/Qualigen
		Silica crucibles
		• Patricides
		• Slides
		Cover-slips
		Beakers
		Staining jars
		Conical flasks
		• Funnels
		Desiccator

- All machines & equipment shall be WHO –GMP/GLP compliance model
- All machines & equipment shall be fit into section which is 8.6 feet height
- All Equipments individually costing more than Rs.25,000/- to have DQ, IQ & OQ, Fat, MOC Certificate, G.A Drawing of the machine, wiring diagram will be supplied with the machine.

Bidders are requested to quote for all the items under sections. Bids will be evaluated on Package basis / Section wise basis. All bidders must quote accordingly, otherwise bid will be summarily rejected.

NOTE:

Bidders are requested to visit AIIA, Sarita Vihar, New Delhi to assess the site condition of Equipment placement and installation in this Section. Bidders must take into consideration in its bid costs to be incurred for any additional work viz. Electrical cabling of suitable ratings, Electrical points of suitable ratings, water connection, water drainage, plumbing & allied requirement for the equipment etc. required for successful installation, commissioning and running of the Equipment and the "All inclusive lump sum price" should include all such costs.

MICROBIOLOGY SECTION

MICROBIOLOGY SECTION

S.NO	NAME OF THE	SPECIFICATION
5.NO	EQUIPMENT/ INSTRUMENT	SPECIFICATION
1	Hot air oven	 GMP/GLP COMPLIANCE, PILOT SIZE, STANDARD MAKE & QUALITY Based on latest available technology & widely accepted by pharma testing house for Microbiology section section Chamber: Stainless Steel (304 Grade) Dimension: 450 x 450 x 450 Shelves: 02/03 Nos. (S. Steel Perforated Adjustable Shelves) Outer Body: Mild Steel Painted with white stoved enamel Door: Double Walled Insulated Door with heavy hinges and Door Lock. Insulation: High Grade Glass wool insulation (75 mm) Temp. Range: Ambient + 5 ° C to 300 ° C Controller: Microprocessor based LCD Display Digital Temperature Controller cum Indicator with pt-100 sensor with Date/Time Display Safety Features: An Additional inbuilt thermostat is also provided to Cut off power supply in case the Controller fails. Air Circulation: An Inbuilt Air Circulation Fan with Motor to maintained Temp. uniformity inside the Chamber. Heaters: ISI Marked Heating Elements. Timer: 0-24 Hrs. Automatic Timer to switch On/Off Cycles/ Panel: With Mains & Heating Indicator, On/Off Switch, Digital Controller, Safety Thermostat, Fan On/off Switch. Power: 220 Volts (+/- 10 Volts), Single Phase, 50 Hz. To be provided with NABL Accrediated Lab. Calibration Certificate for Temperature of Hot Air Oven. Complete with Air Ventilator Ports, Main Lead & Plug. Instruction Manual and Warranty Card are provided with the equipment.
2	Incubator (Bacteriologic al)	 GMP/GLP COMPLIANCE, PILOT SIZE, STANDARD MAKE & QUALITY Based on latest available technology & widely accepted by pharma testing house for Microbiology section section Incubator with micro-processor based temperature cum indicator with Sensor having temp. range from 5 °C to 80 °C ± 0.5 °C. Sizes - 18"x18"x18" (450x450x450mm.) Heating elements placed in the ribs at the Bottom and sides. Sturdy and double walled inside chamber of Stainless steel. Outer body of mild stainless steel. Gap between the two walled filled with preferably PUF/ Glasswool insulation. Heating element should be of high grade chrome plated nichrome. Air ventilation to be provided on the top of the unit. Air circulating fan All the control switches and pilot lamps should be fitted on the front panel.

		 Tray should be adjustable and be supplied with stainless steel wire mesh. Dynamically balanced chamber circulation for uniform temperature. The chamber has the doors, inner full view glass door, outer metallic door with positive locking. Operation: 230 ± 10 V 50 Hz AC
3	Laminar air flow (Horizontal)	GMP/GLP COMPLIANCE, PILOT SIZE, STANDARD MAKE & QUALITY Based on latest available technology & widely accepted by pharma testing house for Microbiology section section Mapufacturer : Elica (Systropic (symtropic or equivalent))
		 Manufacturer: Elico/Systronic/symtronic or equivalent Features Class I or II protection HEPA Filter: Size – 75 x 60 x 15 cm No – 3 Outer dimension: 28.5" x 40" x 60 ½" Working area: 120 x 60 x 60 cm Body: Complete body of stainless steel powder coated with perspex (5 mm) door, Manometer, Gas cock, UV lamp (30 W, 254 nm), Fluorescent Lamps (2), Timer, control panel with switches and indicator lights Blower assembly: universal motor 220 v
4	Autoclave (Vertical)	 GMP/GLP COMPLIANCE, STANDARD MAKE & QUALITY Based on latest available technology & widely accepted by pharma testing house for Microbiology section section Capacity: 150 Liters Size: 750 x 550 mm Microprocessor based temperature control with digital display Pressure adjustable from 05 psi to 20 psi ± 3 psi Timer function Analog pressure display/ pressure gauge Safety valve and pressure release valve High quality electric heater Sturdy construction of inner chamber with high quality stainless steel Insulated outer chamber Top loading design with effortless locking system High quality silicone door gasket/ o-ring Water level indicator Automatic Low water cut off system Automatic pressure control switch Stainless steel/ aluminium carrier basket Auto draining facility for reservoir tank water Alarm system after completion of command Temperature range 121° C -138° C Confirms electrical safety standards IEC-60601/IS-13450 (BIS)

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		 Should have calibration and inspection certificate from factory Power supply Ac 220/ 240 V, 50Hz Temperature & Pressure controller to be certified by a NABL recognized Laboratory.
5	Balance	 GMP/GLP COMPLIANCE, PILOT SIZE, STANDARD MAKE & QUALITY Based on latest available technology & widely accepted by pharma testing house for Microbiology section section Readability: 0.1 mg Capacity: 200 gm Optical Range:1000 mg Scale Division: 10 mg Built-in Mechanical Weight: 1-199 gm Accuracy of optical range:±0.1 mg Weighing principle: Substitution Power Connection: 220/230 volt Ac
6	Bacteriological colony counter	 110 mm Size GMP/GLP COMPLIANCE, STANDARD MAKE & QUALITY Based on latest available technology & widely accepted by pharma testing house for Microbiology section section
7	BOD incubator	 GMP/GLP COMPLIANCE, PILOT SIZE, STANDARD MAKE & QUALITY Based on latest available technology & widely accepted by pharma testing house for Microbiology section section Material: Triple walled construction Outer Body made of Mild Steel painted with white Powder coated enamel. Inner Chamber made of Stainless Steel with ribs for adjusting perforated shelves at convenient height. Size: 845 x 500 x 400 mm Three adjustable Perforated Shelves (S.S.) will be provided. Full view inner Glass door with Aluminium Frame closes on a resilient gasket and permits inspection of the specimens, without disturbing the thermal conditions of the chamber. Cooling Unit is placed on heavy duty Iron angle Frame below the Chamber with Castor wheel for Movability. Door with Magnetic Gasket with Lock & Key arrangement. Illumination Lamp (15 W) will be provided inside the Chamber. Insulation : 75 mm. gap between the walls is filled with high grade super fine mineral glass wool for proper insulation and to avoid thermal loss. Temp. Range: 5 - 60 °C, with an accuracy of ± 0.2 ° C or better. Temp. Contr.: Temperature is controlled by LCD Display PID based Digital Temperature Controller cum Indicator with pt-100 sensor with

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		 Time/Date display. Cooling: Hermetically sealed, high performance CFC Free Compressor (Emerson) with its protective device works efficiently to cool the chamber. Cooling coils are distributed evenly & lie in the air circulation path. Heating: Fins Type Heating elements (ISI Marked) are placed in the path of moving air duly insulated from sheet body. Blower: Air is circulated by a couple of self cooling Motor with fans to keep the temperature uniform throughout the inner chamber. Recorder: In built Temperature recorder with USB port for downloading the data on to computer. Data display in table and graph format. Panel: Panel is located at the top of the Instruments. Supplied complete with Voltage Stablizer, Instruction manual etc. To operate on 220 V, 1 phase, 50 Hz, AC supply. To be provided with NABL Accredited Lab. Calibration Certificate for Temperature control of B.O.D.INCUBATOR
8	Microscope	 GMP/GLP COMPLIANCE, PILOT SIZE, STANDARD MAKE & QUALITY Based on latest available technology & widely accepted by Pharma testing house for Microbiology section
9	Binocular microscope with camera	 GMP/GLP COMPLIANCE, PILOT SIZE, STANDARD MAKE & QUALITY Based on latest available technology & widely accepted by pharma testing house for Microbiology section
10	Refrigerator	 Capacity:215 litres Double Door Auto Defrost Works without Stabilizer 5 Star rating (BEE level) Any other perquisite required if any with specifications should be included to run and installation of the instrument
11	Heating mantle	 GMP/GLP COMPLIANCE, PILOT SIZE, STANDARD MAKE & QUALITY Based on latest available technology & widely accepted by pharma testing house for Microbiology section section 1 liter capacity Separate quote may be for other size variant as 500 ml, 2 liter etc
12	Vortex shaker M/c	 GMP/GLP COMPLIANCE, PILOT SIZE, STANDARD MAKE & QUALITY Based on latest available technology & widely accepted by pharma testing house for Microbiology section section A variable speed mixture Variety of tubes for mixing and holding against vibrating rubber cup for rapid mixing Variable speed regulator which controls the degree of vibration with

		 neopine rubber cup. With touch plate on/off type Any other perquisite required if any with specifications should be included to run and installation of the instrument
13	Zone reader (antibiotic)	 GMP/GLP COMPLIANCE, PILOT SIZE, STANDARD MAKE & QUALITY Based on latest available technology & widely accepted by pharma testing house for Microbiology section section Microprocessor based design. Average of vertical diameter & horizontal diameter of inhibited Zone. Calibration facility. IQ/OQ documentation. An accurate method of determining the strength of antibiotic materials. Magnified Image of the inhibition zone is clearly visible on the Prism Less time consuming for measuring the accurate diameter of an inhibited zone (± 0.1 mm) Display shows direct reading. Any other perquisite required if any with specifications should be
14	Water bath	 included to run and installation of the instrument GMP/GLP COMPLIANCE, PILOT SIZE, STANDARD MAKE & QUALITY Based on latest available technology & widely accepted by pharma testing house for Microbiology section section Inner size of the water chamber: 280 X 360 X 380 mm (depth), Temperature range: Ambient to 100°C Accuracy: - ± 0.5°C, Circulator inbuilt. Sensor: PT 100 Inner body: S.S. (304) Outer body: S.S. (304) Display and controller: Digital Input voltage: 220V, 50 Hz. GMP MODEL
15	Magnetic stirrer	 GMP/GLP COMPLIANCE, PILOT SIZE, STANDARD MAKE & QUALITY Based on latest available technology & widely accepted by pharma testing house for Microbiology section section Make: Any standard Stainless steel hot plate PMDC motor for higher torque even at lower speeds and maintaining speed stability despite viscosity or volume changes Accurate step less speed control up to 1200 rpm allows smooth variation. Heating energy controlled by energy regulator Specially designed for corrosive atmosphere reducing the chances of fumes entering the unit Stirring: 02 litres capacity Dimension (W x D x H): 160 x 200 x 160 mm

		Stirring paddle: 09 x 35 mm
16	pH meter	 Stirring paddle: 09 x 35 mm GMP/GLP COMPLIANCE, PILOT SIZE, STANDARD MAKE & QUALITY Based on latest available technology & widely accepted by pharma testing house for Microbiology section section The instrument should be bench top, impact and corrosion resistant Range pH: 0.0 to 14.00 mV: ±1600 Temperature, °C: 0 to 100 Resolution pH pH: 0.01 mV: 0.1 Temperature, °C: 0.1 Accuracy pH: ±0.01 mV: ±0.1 Temperature compensation: Automatic 0 to 100°C Buffer recognition: Automatic and manual Power: 9V Battery and 230 VAC adapter Calibration Minimum 3 Stage (4.0, 7.0 and 10.0 pH) Or multistage calibration with additional buffer solution of pH 2,5, 8 & 9 etc pH buffers pouches: 4.0, 7.0 and 10.0 pH (traceable to NABL) Combined (pH + temp) electrodes: Two (One as spare) The system should be complete with measuring electrode, calibration and maintenance kit, detailed operation and maintenance manual (English), dust cover, power cable and plug compatible with Indian
	1	sockets and spares and consumables for three years continuous use.
17	Fogger for fumigation	 GMP/GLP COMPLIANCE, PILOT SIZE, STANDARD MAKE & QUALITY Based on latest available technology & widely accepted by Pharma testing house for Microbiology section

- All machines & equipment shall be WHO –GMP/GLP compliance model,
- All machines & equipment shall be fit into section which is 8.6 feet height
- DQ, IQ & OQ, Fat, MOC Certificate, G.A Drawing of the machine, wiring diagram will be supplied with the machine.

Bidders are requested to quote for all the items under sections. Bids will be evaluated on Package basis / Section wise basis. All bidders must quote accordingly, otherwise bid will be summarily rejected.

NOTF:

Bidders are requested to visit AIIA, Sarita Vihar, New Delhi to assess the site condition of Equipment placement and installation in this Section. Bidders must take into consideration in its bid costs to be incurred for any additional work viz. Electrical cabling of suitable ratings, Electrical points of suitable ratings, water connection, water drainage, plumbing & allied requirement for the equipment etc. required for successful installation, commissioning and running of the Equipment and the "All inclusive lump sum price" should include all such costs.

PANCHAKARMA

S. No.	Name of Items	Specification	Quality
1.	DRONI (with stand) a. Wooden	Single piece, made of original country Venga (Pterocarpus natural) wood hand finish, Kiln seasoned, oil seasoned. Size: 9'x30" Table(stand) for droni-wooden with decorative carving	12
	b. FRP/Fiberglass	Heavy duty droni with 'PUF' material inside made with NPG. Gelcoat and heat resistant ISO resin, wood finish i. Size- 9.5'x36"x5"	10
		ii. 8'x30"x4'	23
		Table(stand) for droni-wooden	28
		plain/decorative FRP stand (Thulasi Thara design)	05
2.	STEAM BATH	Wooden made of seasoned	
	SYSTEMS	wood. Digital temperature	25
	a. Steam Bath Chamber (sitting)	control & timer, semi automatic boiler, adjustable stool. 1. Teak wood fixed bed on wooden stand chamber,	
	b. Stream Bath (Lying type)	should be made with wooden frame and with translucent, wrinkled FRP window panel made of heat resistant NGP fiberglass. Heavy duty Electric boiler. Size- 210cmx84cmx88cm 2. The base frame	20
		and bed made of hardwood chamber transparent, heat resistant, FRP with stainless steel frame work, with boiler.	05
		3. Wooden whole body steam bath, Ayurvedic Spa equipment. Top cabin made in sections for easy opening by	06

		hand. Wooden cabinets under the bed to store the steam boiler and all treatment accessories etc. with semi auto electric boiler. Size- 290cmx100cmx120cm	
	c. Steam Generators	1. Fully automatic Electric boiler (3 kw), SS with alarm warning system, Option to connect with water line. Medicine box to insert herbs inside the boiler. Digital temperature control.	20
		2. Semi automatic electric (3 kw capacity), Electronic level sensing system. Medicine box, Ball valve steam control, safety valve, SS control box, Chrome plated trolley.	20
3.	NADI SWEDA YANTRA	Insulated electric stream generator, special stream hose with handle and water trap, safety valve, water level check valve, Thermostat, heating coil (ISI) Medicine Box.	45

4.	SHIRODHARA	A. Shirodhara stand-	
4.	SYSTEM	i. Decorative wooden Dhara stand, hand- carved out of medicinal wood.	15
		ii. Stand made from heavy duty SS with adjustability in both vertical and horizontal directions.	30
		B. Oil heating system-heating coil with an energy controller to provide a steady flow of dhara at constant heat. Can be filled with any Shirodhara Stand and Shirodhara Vessel. C. Shirodhara Vessel:-	20
		i. White bronze (decorative export quality) ii. White bronze	20
		(standard quality) iii. Fiberglass Vessel	20
		(wood design exterior) All with brass chains, hooks,	15
		rings, ball valve control.	
5.	FULLY AUTOMATIC SHIRDHARA MACHINE (High export quality model)	Adjustable swinging width of movement of oscillating dhara vessel. Maintain constant temperature, oil filteration facility.	06
6.	SARVANGA-DHARA/ PIZHICHIL YANTRA	Machine should enable to perform various procedures like- Sarvanga dhara, Ekanga	06
		dhara, Shirodhara, Pizhichil. Provision of automatic Shirodhara Yantra	
		 Provision of oil filterial, heating, recirculation Dhara dispenses adjustable limit switches. 	
7.	AWAGAHA TUB	Export quality model with facility for heating, re-circulation, body jet spray of	20

		medicated/hot water. NPG tub	
		Digital temperature Control.	
		Size:172cmx45cm	
8.	HIP BATH	Sitting type tub with	30
		comfortable sitting.	
9.	SPINE BATH	FRP spine bath with spine	30
		groove. In rose wood/ jungle	
		wood finish.	
10.	VAMAN PEETH	A set of specific table and	10
		chair. Table should have pot to	
		collect the vomitus and table	
		should be designed in a way to	
		help to sit the patient stable	
		and in the inclined position.	
		Made of stainless Steel.	
11.	VIRECHAN PEETH	It should facilitate comfortable	10
		Virechan. SS Collection bowl,	
		adjustable back, Castor Wheel.	
12.	NASYA PEETH	A fully reclining chair with	20
		adjustable head rest. The back	
		rest and seat of teakwood with	
		raisable leg support.	
13.	MATRA VASTI/TAILA	i. SS body with	50
	VASTI YANTRA	brass head. Disposable Vasti	
		tip. Size 100 ml, 250 ml.	
		Disposable tips of Adult &	
		Pediatric size.	
		ii. Disposable	500
		Vasti Yantra	
14.	SHIRO VASTI	Leather/synthetre leather,	50
		Vinyl lining inner side.	
15.	KSHARA SUTRA Cabinet	Automatic Kshara Sutra direr cum	01
		sterilizer (UV). Provision of pre-	
		setting of drying time. Storage	
1.5	The Day Help Assessment of the Control of the Contr	chamber.	0.2
16.	TAP SWEDAN YANTRA	Provision of circulation of dry&	02
	(Lying type)	hot air. Digital temperature	
		control. Bed made of teakwood Chamber cover made of NPG	
		fiberglass with wood finish.	1

- All machines & equipment shall be WHO –GMP/GLP compliance model,
- All machines & equipment shall be fit into section which is 8.6 feet height
- DQ, IQ & OQ, Fat, MOC Certificate, G.A Drawing of the machine, wiring diagram will be supplied with the machine.

Bidders are requested to quote for all the items under sections. Bids will be evaluated on Package basis / Section wise basis. All bidders must quote accordingly, otherwise bid will be summarily rejected.

NOTE:

Bidders are requested to visit AIIA, Sarita Vihar, New Delhi to assess the site condition of Equipment placement and installation in this Section. Bidders must take into consideration in its bid costs to be incurred for any additional work viz. Electrical cabling of suitable ratings, Electrical points of suitable ratings, water connection, water drainage, plumbing & allied requirement for the equipment etc. required for successful installation, commissioning and running of the Equipment and the "All inclusive lump sum price" should include all such costs.

SECTION-VII

TECHNICAL SPECIFICATIONS GENERAL TECHNICAL SPECIFICATIONS

GENERAL POINTS:

1. Warranty:

- a) Two years Comprehensive Warranty as per Conditions of Contract of the TE document for complete equipment (including X ray tubes, Helium for MRI, Batteries for UPS, other vacuumatic parts wherever applicable) and Turnkey Work from the date of satisfactory installation, commissioning, trial run & handing over of equipment to Hospital/Institution/Medical College.
- b) 98% up time Warranty of complete equipment with extension of Warranty period by double the downtime period on 24 (hrs) X 7 (days) X 365 (days) basis.
- c) All software updates should be provided free of cost during Warranty period.

2. After Sales Service:

After sales service centre should be available at the city of Hospital/Institution/Medical College on 24 (hrs) X 7 (days) X 365 (days) basis. Complaints should be attended properly, maximum within 8 hrs. The service should be provided directly by Tenderer/Indian Agent. Undertaking by the Principals that the spares for the equipment shall be available for at least 10 years from the date of supply.

3. Training:

On Site training to Doctors/ Technicians/ staff is to be provided by Principal/ Indian Agents (if they have the requisite know-how) for operation and maintenance of the equipment to the satisfaction of the consignee.

- 4. Annual Comprehensive Maintenance Contract (CMC) of subject equipment with Turnkey:
 - a) The cost of Comprehensive Maintenance Contract (CMC) which includes preventive maintenance including testing & calibration as per technical/ service /operational manual of the manufacturer, labour and spares, after satisfactory completion of Warranty period may be quoted for next 3 years on yearly basis for complete equipment (including X ray tubes, Helium for MRI, Batteries for UPS, other vacuumatic parts wherever applicable) and Turnkey (if any). The supplier shall visit each consignee site as recommended in the manufacturer's technical/ service /operational manual, but at least once in six months during the CMC period
 - b) The cost of CMC may be quoted along with taxes applicable on the date of Tender Opening. The taxes to be paid extra, to be specifically stated. In the absence of any such stipulation the price will be taken inclusive of such taxes and no claim for the same will be entertained later.
 - c) Cost of CMC will be added for Ranking/Evaluation purpose.
 - d) The payment of CMC will be made on six monthly basis after satisfactory completion of said period, duly certified by end user on receipt of bank guarantee for 2.5 % of the cost of the equipment as per Section XV valid till 2 months after expiry of entire CMC period.
 - e) There will be 98% uptime warranty during CMC period on 24 (hrs) X 7 (days) X 365 (days) basis, with penalty, to extend CMC period by double the downtime period.

- f) During CMC period, the supplier is required to visit at each consignee's site at least once in 6 months commencing from the date of the successful completion of warranty period for preventive maintenance of the goods.
- g) All software updates should be provided free of cost during CMC.
- h) Failure of the above [4. e) to 4. g)] by the supplier, may lead to the forfeiture of the Bank Guarantee for Annual CMC.
- i) The payment of CMC will be made as stipulated in GCC Clause 21.

Turnkey:

Turnkey is indicated in the technical specification of the respective items, wherever required. The Tenderer shall examine the existing site where the equipment is to be installed, in consultation with HOD of Hospital/Institution/Medical College concerned. Turnkey details of each Hospital/Institution/Medical College are given at the end of Technical Specification. The Tenderer to quote prices indicating break-up of prices of the Machine and Turnkey Job of each Hospital/Institution/Medical College. The Turnkey costs may be quoted in Indian Rupee will be added for Ranking Purpose.

The taxes to be paid extra, to be specifically stated. In the absence of any such stipulation the price will be taken inclusive of such duties and taxes and no claim for the same will be entertained later.

The Turnkey Work should completely comply with AERB requirement, if any.

- **Note 1:** Tenderer's attention is drawn to GIT clause 18 and GIT sub-clause 11.1(c). The tenderer is to provide the required details, information, confirmations, etc. accordingly failing which it's tender is liable to be ignored.
- Note 2: General: Bidders are requested to make sure that they should attach the list of equipments for carrying out routine and preventive maintenance wherever asked for and should make sure that Electrical Safety Analyzer / Tester for Medical equipments to periodically check the electrical safety aspects as per BIS Safety Standards IS-13540 which is also equivalent to IEC electrical safety standard IEC-60601 is a part of the equipments. If the Electrical Safety Analyzer/Tester is not available they should provide a commitment to get the equipments checked for electrical safety compliance with Electronic Regional Test Labs / Electronics Test and Development Centres across the country on every preventive maintenance call.
- **Note 3:** OPTIONAL ITEMS: Deleted.

Section – VIII Quality Control Requirements

(Proforma for equipment and quality control employed by the manufacturer(s)

Tender Reference No.

Date of opening

Time

Name and address of the Tenderer:

Note: All the following details shall relate to the manufacturer(s) for the goods quoted for.

- Name of the manufacturer
 - a. full postal address
 - b. full address of the premises
 - c. telegraphic address
 - d. telex number
 - e. telephone number
 - f. fax number
- 02 Plant and machinery details
- 03 Manufacturing process details
- 04 Monthly (single shift) production capacity of goods quoted for
 - a. normal
 - b. maximum
- O5 Total annual turn-over (value in Rupees)
- Quality control arrangement details
 - a. for incoming materials and bought-out components
 - b. for process control
 - c. for final product evaluation
- 07 Test certificate held
 - a . type test
 - b . BIS/ISO certification
 - c any other
- 08 Details of staff
 - a. technical
 - b skilled
 - c unskilled

Signature and seal of the Tenderer

Section – IX Qualification Criteria

- 01. The Tenderer must be a Manufacturer. In case the manufacturer does not quote they shall give reasons for not quoting directly. They may authorise their agent as per proforma of Manufactyrer authorization form as given in the tender enquiry document to quote and enter into a contractual ogligation.
- 02. (a) The Manufacturer should have supplied and installed in last **Five** years from the date of Tender Opening, at least 100% of the quoted quantity of the similar equipment meeting major specification parameters which is functoning satisfactorily. The foreign Manufacturer satisfying the above criteria should also have supplied and installed in last **Five** years from the date of Tender Opening, at least 50% of quoted quantity of similar model which is functoning satisfactorily any where outside the country of manufacture.
- 02. (b) The Tenderers quoting as authorized representative of the manufacturer meeting the above criteria 02 (a) should have supplied and installed in last <u>Five</u> years from the date of Tender Opening, at least 50% of the quoted quantity of similar equipments which is functoning satisfactorily, any where in India of any manufacturer.

1. The tenderer shall give an affidavit as under:

"We hereby certify that if at any time, information furnished by us is proved to be false or incorrecr, we are liable for any action as deemed fit by the purchaser in addition to forfeiture of the earnest money.

2. In support of 2 (a) & 2 (b), the Tenderer shall furnish Performance statement in the enclosed

Proforma 'A'.

The manufacturer as well as the Tenderer/ Indian Agent shall furnish Satisfactory Performance Certificate in respect of above, duly translated in English and duly notarized in the country of origin, along with the tender.

- 3. The Tenderer shall furnish a brief write-up, packed with adequate data explaining and establishing his available capacity/capability (both technical and financial) to perform the Contract (if awarded) within the stipulated time period, after meeting all its current/present commitments. The Tenderer shall also furnish details of Equipment and Quality Control in the enclosed Section VIII.
- 4. Notwithstanding anything stated above, the Purchaser reserves the right to assess the Tenderer's capability and capacity to perform the contract satisfactorily before deciding on award of Contract, should circumstances warrant such an assessment in the overall interest of the Purchaser.
- 5. The Purchaser reserves the right to ask for a free demonstration of the quoted equipment at a pre determined place acceptable to the purchaser for technical acceptability as per the tender specifications, before the opening of the Price Tender.

PROFORMA 'A' PROFORMA FOR PERFORMANCE STATEMENT

(For the period of last five years)

]	Tender Referer	nce No.		:				
Ι	Date of opening	g		:				
Time :								
ľ	Name and addr	ress of the T	enderer enderer	:				
ľ	Name and addr	ress of the m	:					
	Order	Order	Description	Value	Date of		Remarks	Have the
	placed by	number	and quantity	of	completio	n of	indicating	goods been
	(full	and date	of ordered	order	Contract		reasons for	functioning
	address of		goods and	(Rs.)	As per	Actual	delay if	Satisfactorily
	Purchaser/		services		contract		any	(attach
	Consignee)							documentary

"We hereby certify that if at any time, information furnished by us is proved to be false or incorrect, we are liable for any action as deemed fit by the purchaser in addition to forfeiture of the earnest money.

5

6

Signature and seal of the Tenderer

proof)**

8

** The documentary proof will be a certificate from the consignee/end user with crossreference of order no. and date in the certificate along with a notarized certification authenticating the correctness of the information furnished.

3

Section – X TENDER FORM

Го
CGM (F&A – Proc.), HSCC (India) Ltd, Plot E-6(A), Sector -1, Noida -201301, Uttar Pradesh
Ref. Your TE document Nodated
We, the undersigned have examined the above mentioned TE document, including amendment/corrigendum No, dated
(Signature with date)

(Name and designation) Duly authorised to sign tender for and on behalf of

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SECTION – XI PRICE SCHEDULE

A) PRICE SCHEDULE FOR DOMESTIC GOODS OR GOODS OF FOREIGN ORIGIN LOCATED WITHIN INDIA

1	2	3	4		5					6	
Schedule		Country of			Price per unit (Rs.)						
	Description of Goods	Origin	(Nos.)	Ex - factory/ Ex -warehouse /Ex-showroom /Off - the shelf (a)	Excise Duty (if any) [%age & value]	Sales Tax/ VAT(if any) [%age & value]	Packing and Forwarding charges	Inland Transportation, Insurance for a period including 3 months beyond date of delivery, loading/unloading and Incidental costs till consignee's site	Incidental Services (including Installation & Commissioning, Supervision, Demonstration and Training) at the Consignee's site	Unit Price (at Consignee Site) basis	Total Price (at Consignee Site) basis (Rs.)
					(b)	(c)	(d)	(e)	(f)	= a+b+c+d+e+f	4 x 5(g)

	In words:
Note:	 If there is a discrepancy between the unit price and total price THE UNIT PRICE shall prevail. The charges for Annual CMC after warranty shall be quoted separately as per Section – XI – Price Schedule C
	Name
	Business Address
lace:	Signature of Tenderer
ate:	Seal of the Tenderer
Date.	

Total Tender price in Rupees:

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<u>SECTION – XI PRICE SCHEDULE</u> PRICE SCHEDULE FOR GOODS TO BE IMPORTED FROM ABROAD

B)

** To be paid in Indian Currency (Rs.)

HSCC/PUR/AIIA/2013

1	2	3	4			5			6
Schedule	Brief Description of Goods	Country of Origin	Quantity	FOB price at port/ airport of Lading	Carriage & Insurance (port of loading to port of entry) and other Incidental costs**	f entry) and Incidental costs** Supervision, Demonstration and Training) at the Consigner's site** Supervision, site for a period including 3 more beyond date		Unit Price on CIP Named Port of Destination + Extended Insurance (local transportation and storage)	Total price on CIP Named Port of Destination + Insurance (local transportation and storage)
				(a)	(b)	Consignee's site** (c)	delivery** (d)	(e) = a+b+c+d	4X 5 (e)

Total Tender price in foreign currency:	
In words:	
Note: -	
1. If there is a discrepancy between the unit price and total price TF	HE UNIT PRICE shall prevail.
2. The charges for Annual CMC after warranty shall be quoted sepa	arately as per Section – XI – Price Schedule C
3. The Tenderer will be fully responsible for the safe arrival of the INCOTERMS, if applicable	goods at the named port of entry in good condition as per terms of CIP as per
Indian Agent:	
Indian Agency Commission% of FOB	
Signature of Tenderer	
	Name
	Business Address
Place:	Signature of Tenderer
Data.	Seel of the Tondarar

SECTION - XI PRICE SCHEDULE

PRICE SCHEDULE FOR ANNUAL COMPREHENSIVE MAINTENANCE CONTRACT AFTER WARRANTY PERIOD

1	2	3		4		5
Schedule No.	BRIEF DESCRIPTION OF GOODS	QUANTITY. (Nos.)	Con Ma Cont	Annual apreher aintenar Co ract Co h Unit wise*.	nsive nce ost for	Total Annual Comprehensive Maintenance Contract Cost for 5 Years [3 x (4a+4b+4c)]
			1^{st}	2 nd	3 rd	
			a	В	С	

^{*} After completion of Warranty period

NOTE:-

C)

- 1. In case of discrepancy between unit price and total prices, THE UNIT PRICE shall prevail.
- 2. The cost of Comprehensive Maintenance Contract (CMC) which includes preventive maintenance including testing & calibration as per technical/ service /operational manual, labour and spares, after satisfactory completion of Warranty period may be quoted for next 3 years on yearly basis for complete equipment and Turnkey (if any).
- 3. The cost of CMC may be quoted along with taxes applicable on the date of Tender Opening. The taxes to be paid extra, to be specifically stated. In the absence of any such stipulation the price will be taken inclusive of such taxes and no claim for the same will be entertained later.
- 4. Cost of CMC will be added for Ranking/Evaluation purpose.
- 5. The payment of CMC will be made as per clause GCC clause 21.1 (D).
- 6. The uptime warranty will be 98 % on 24 (hrs) X 7 (days) X 365 (days) basis or as stated in Technical Specification of the TE document.
- 7. All software updates should be provided free of cost during CMC period.
- 8. The stipulations in Technical Specification will supersede above provisions
- 9. The supplier shall keep sufficient stock of spares required during Annual Comprehensive Maintenance Contract period. In case the spares are required to be imported, it would be the responsibility of the supplier to import and get them custom cleared and pay all necessary duties.

	Name
	Business Address
Place:	Signature of Tenderer

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Date: SECTION - XI PRICE SCHEDULE D) PRICE SCHEDULE FOR TURNKEY Schedule					HSCC (India) Ltd		
Note: - 1. The cost of Turnkey as per Technical Specification (Section VII) may be quoted on lump sum along with taxes applicable on the date of Tender Opening. The taxes to be paid extra, to be specifically stated. In the absence of any such stipulation the price will be taken inclusive of such taxes claim for the same will be entertained later. 2. Cost of Turnkey will be added for Ranking/Evaluation purpose. 3. The payment of Turnkey will be made as per clause GCC clause 21.1 (c). 4. The stipulations in Technical Specification will supersede above provisions Name	Date:			SECTIO		DULE	rer
 The cost of Turnkey as per Technical Specification (Section VII) may be quoted on lump sum along with taxes applicable on the date of Tender Opening. The taxes to be paid extra, to be specifically stated. In the absence of any such stipulation the price will be taken inclusive of such taxes claim for the same will be entertained later. Cost of Turnkey will be added for Ranking/Evaluation purpose. The payment of Turnkey will be made as per clause GCC clause 21.1 (c). The stipulations in Technical Specification will supersede above provisions Name				DESCRIPTION OF		Turnkey price	
 The cost of Turnkey as per Technical Specification (Section VII) may be quoted on lump sum along with taxes applicable on the date of Tender Opening. The taxes to be paid extra, to be specifically stated. In the absence of any such stipulation the price will be taken inclusive of such taxes claim for the same will be entertained later. Cost of Turnkey will be added for Ranking/Evaluation purpose. The payment of Turnkey will be made as per clause GCC clause 21.1 (c). The stipulations in Technical Specification will supersede above provisions Name							
Place: Signature of Tenderer	1. 2. 3.	The cost of Turnke Opening. The taxes claim for the same Cost of Turnkey wi The payment of Tu	s to be paid ext will be enterta ill be added for rnkey will be	tra, to be specifically stated. nined later. r Ranking/Evaluation purpo made as per clause GCC cla	In the absence of any sures. See: Sures 21.1 (c).		
Place: Signature of Tenderer						Na	ame
Date: Seal of the Tenderer	Place:	!		-		Signature of Tende	rer
	Date:			_		Seal of the Tende	erer

SECTION – XII QUESTIONNAIRE

Fill up the Section XX - Check List for Tenderers and enclose with the Tender

- 1. The tenderer should furnish specific answers to all the questions/issues mentioned in the Checklist. In case a question/issue does not apply to a tenderer, the same should be answered with the remark "not applicable".
- 2. Wherever necessary and applicable, the tenderer shall enclose certified copy as documentary proof/ evidence to substantiate the corresponding statement.
- 3. In case a tenderer furnishes a wrong or evasive answer against any of the question/issues mentioned in the Checklist, its tender will be liable to be ignored.

SECTION – XIII BANK GUARANTEE FORM FOR EMD

Whereas	(hereinafter called the "Tenderer") has submitted its
quotation dated	for the supply of
(hereinafter called the "tender")	against the purchaser's tender enquiry No. Know all persons by these presents that we
of	at are bound unto
the "Bank") having our registered office	at are bound unto
(here	einafter called the "Purchaser) in the sum of
	payment will and truly to be made to the said Purchaser, the
Bank binds itself, its successors and assig	ns by these presents. Sealed with the Common Seal of the
said Bank thisare:	day of 20 The conditions of this obligation
(1) If the Tenderer withdraws or an	nends, impairs or derogates from the tender in any respect
within the period of validity of this	tender.
	ified of the acceptance of his tender by the Purchaser
during the period of its validity:-	
 a) fails or refuses to furnish contract. 	the performance security for the due performance of the
or	
b) fails or refuses to accept/	execute the contract.
or	
c) if it comes to notice that	the information/documents furnished in its tender is
incorrect, false, misleading	or forged
* *	the above amount upon receipt of its first written demand, ate its demand, provided that in its demand the Purchaser
will note that the amount claimed by it is	s due to it owing to the occurrence of one or both the two
conditions, specifying the occurred conditi	on(s).
This guarantee will remain in force for a	period of forty-five days after the period of tender validity
and any demand in respect thereof should	reach the Bank not later than the above date.
	(Signature of the authorised officer of the Bank)
	Name and designation of the officer
	Seal_name & address of the Bank and address of the Branch

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SECTION – XIV MANUFACTURER'S AUTHORISATION FORM

То

CGM (F&A – Proc.), HSCC (India) Ltd, Plot E-6(A), Sector -1, Noida -201301, Uttar Pradesh

Uttar Pradesh
Dear Sirs,
Ref. Your TE document No, dated
We, who are proven and reputable manufacturers
of(name and description of the goods offered in the tender) having
factories at, hereby authorise
Messrs(name and address of the agent) to submit a tender,
process the same further and enter into a contract with you against your requirement as contained in the
above referred TE documents for the above goods manufactured by us.
We further confirm that no supplier or firm or individual other than Messrs. (name and address of the above agent) is authorised to submit a
tender, process the same further and enter into a contract with you against your requirement as contained in the above referred TE documents for the above goods manufactured by us.
We also hereby extend our full warranty, CMC as applicable as per clause 15 of the General
Conditions of Contract, read with modification, if any, in the Special Conditions of Contract for the
goods and services offered for supply by the above firm against this TE document.
Yours faithfully,
[Signature with date, name and designation] for and on behalf of Messrs
[Name & address of the manufacturers]

- Note: 1. This letter of authorisation should be on the letter head of the manufacturing firm and should be signed by a person competent and having the power of attorney to legally bind the manufacturer.
 - 2. Original letter may be sent.

SECTION – XV

BANK GUARANTEE FORM FOR PERFORMANCE SECURITY/ CMC SECURITY

To
CGM (F&A – Proc.),
HSCC (India) Ltd,
Plot E-6(A), Sector -1,
Noida -201301,
Uttar Pradesh
WHEREAS (Name and address of the supplier) (Hereinafter
called "the supplier") has undertaken, in pursuance of contract no dated
to supply (description of goods and services) (herein after 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 scheduled commercial bank recognised by you for the sum specified
therein as security for compliance with its obligations in accordance with the contract;
AND WHEREAS we have agreed to give the supplier such a bank guarantee;
NOW 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 limits 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.
We hereby waive the necessity of your demanding the said debt from the supplier before presenting us with the demand.
We further agree that no change or addition to or other modification of the terms of the contract to be performed there under or of any of the contract documents which may be made between you and the
supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.
This guarantee shall be valid up to 30 (thirty) months from the date of Notification of Award i.e. up
to (indicate date)
(Signature with date of the authorised officer of the Bank)
Name and designation of the officer
Seal, name & address of the Bank and address of the Branch

SECTION – XVI CONTRACT FORM - A

CONTRACT FORM FOR SUPPLY, INSTALLATION, COMMISSIONING, HANDING OVER, TRIAL RUN, TRAINING OF OPERATORS & WARRANTY OF GOODS

(Address of the office issuing		er's/Consignee's					
office issuing	the contrac	(i)					
		_ dated					
This is in con	tinuation 1	to this office's Notific	cation of Awa	rd No	dated		
1. Name & ad	ldress of the	e Supplier: date					
2. Purchaser's	TE docum	ent No date	ed	and subsequ	ent Am	endment	
		ed(if any)					
		dated					,
connection		ed (if any)	, exchanged be	etween the supp	pner and	i the pure	cnaser in
			vina dogument	es ata which or	a inalud	ad in tha	doguments
		stract Form, the follow	_				
as integral		graphs 2 and 3 above,	, shan also be	deemed to form	n and be	e read an	a construed
as integral	part of this	contract.					
(i) Ger	neral Condi	itions of Contract;					
* *		itions of Contract;					
	ist of Requi						
` '	_	ecifications;					
	-	ol Requirements;					
		furnished by the supp	olier;				
(vii) P	rice Schedu	ale(s) furnished by the	e supplier in its	tender;			
(viii) I	Manufactur	ers' Authorisation For	rm (if applicab	le for this tend	er);		
(ix) Pu	urchaser's N	Notification of Award					
		d expressions used i					-
	-	to them in the condition					
		orporated under clause			nstructi	ons to Te	enderers' of
		cument shall also app				1	11 1
		ns, stipulations etc. or	it of the above	-referred docui	ments ai	re reproa	uced below
for ready r		ars of the goods and so	orvione which	chall be cuppli	od/prox	idad by	the supplier
	e as under:	its of the goods and si	ervices willen	snan be suppn	eu/ prov	lucu by	me supplier
arc	Schedule Schedule	Brief description of	Accounting	Quantity to	Unit	Total	Terms of
	No.	goods/services	unit	be supplied	Price	price	delivery
		9 · · · · · · · · · · · · · · · · · · ·				.	J. J
					•		
		vices (if applicable) ar					
Total value (i	n figure)	(In word	ds)				

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- 2. Delivery schedule
- (iii) Details of Performance Security
- (iv) Quality Control

Date: _____

- (a) Mode(s), stage(s) and place(s) of conducting inspections and tests.
- (b) Designation and address of purchaser's inspecting officer
- (v) Destination and despatch instructions
- (vi) Consignee, including port consignee, if any
 - 3. Warranty clause
 - 4. Payment terms
 - 5. Paying authority

of the	(Signature, name and address Purchaser's/Consignee's authorised official) For and on behalf of
Received and accepted this contract	
(Signature, name and address of the supplier's executive	
duly authorised to sign on behalf of the supplier)	
For and on behalf of	
(Name and address of the supplier)	
(Seal of the supplier)	

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SECTION – XVI CONTRACT FORM – B

CONTRACT FORM FOR ANNUAL COMPREHENSIVE MAINTENANCE CONTRACT

Annu: Betwe	en CM Con	tract No				a	1ated
(Addro And	ess of Head	of Hospital/Institute	e/Medical Colleg	e)			
(N)	0 4 1 1	C.1. C. 1:)					
(Name Ref:	Contract 1	stallation, commiss					o. & date of Contract for Training of operators &
	In continua	ation to the above re	ferred contract				
	6.	The Contract of Ar	nnual Comprehe	nsive N	I ainter	ance	e is hereby concluded as under:
	1	2	3		4		5
	Schedule No.	BRIEF DESCRIPTION OF GOODS	QUANTITY. (Nos.)	Main Conti	orehens tenance act Co ach Un	e st	Total Annual Comprehensive Maintenance Contract Cost for 5 Years [3 x (4a+4b+4c)]
				1 st	2 nd	3 ^r	
				a	b	c	_
Total c	b) The C from_ (date o The cost or maintenance quoted for	da f expiry of CMC) f Annual Comprehe ce, labour and spare next 5 years as cont	om the date of te of expiry of nsive Maintenan s, after satisfactor cained in the above	Warrar ce Con ory com ve refer	nty) an tract (Capletion red co	CMC n of 'ntrac	Diligations under Warranty i.e. ill expire on
4)	& _) and Turnkey	(if any).				
u)		penalty, to extend (_			ars) X 7 (days) X 365 (days) me period.
e)	During CM including t manual. The	AC period, the supplesting and calibration supplier shall visit	ier shall visit at on as per the mar it each consignee	each co nufacture site as	nsigne rer's se recon	e's s ervic nmen	site for preventive maintenance be/technical/operational anded in the manufacturer's of the successful completion

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of warranty period for preventive maintenance of the goods.

f) All software updates should be provided free of cost during CMC.

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g)	The bank guarantee valid till [(fill the date) 2 months after expiry of entire CMC period] for an amount of Rs [(fill amount) equivalent to 2.5 % of the cost of the equipment as per contract] shall be furnished in the prescribed format given in Section XV of the TE document, along with the signed copy of Annual CMC within a period of 21 (twenty one) days of issue of Annual CMC failing which the proceeds of Performance Security shall be payable to the Purchaser/Consignee. h) If there is any lapse in the performance of the CMC as per contract, the proceeds Annual CMC bank guarantee for an amount of Rs (equivalent to 2.5 % of the cost of the equipment as per contract) shall be payable to the Consignee. i) Payment terms: The payment of Annual CMC will be made against the bills raised to the consignee by the supplier on six monthly basis after satisfactory completion of said period, duly certified by the HOD concerned. The payment will be made in Indian Rupees.
	j) Paying authority: (name of the consignee i.e. Hospital/
	Institute /Medical College's authorised official)
	(Signature, name and address of Hospital/Institute/Medical College's authorised official) For and on behalf of
Receiv	red and accepted this contract
(Signa	ture, name and address of the supplier's executive
duly au	uthorised to sign on behalf of the supplier)
For an	d on behalf of
(Name	and address of the supplier)
(Seal o	of the supplier)
Date: _	
Place:	

SECTION – XVII CONSIGNEE RECEIPT CERTIFICATE

(To be given by consignee's authorized representative)

The following store (s) has/have been received in good condition:

1)	Contract No. & date	:
2)	Supplier's Name	<u>:</u>
3)	Consignee's Name & Address with telephone No. & Fax No.	:
4)	Name of the item supplied	:
5)	Quantity Supplied	<u>:</u>
6)	Date of Receipt by the Consignee	:
7)	Name and designation of Authorized Representative of Consignee	:
8)	Signature of Authorized Representative of Consignee with date	:
9)	Seal of the Consignee	÷

SECTION – XVIII Proforma of Final Acceptance Certificate by the Consignee

No_	
To M/s	
Sub	ject: Certificate of commissioning of equipment/plant.
goo (sul	s is to certify that the equipment(s)/plant(s) as detailed below has/have been received in d conditions along with all the standard and special accessories and a set of spares bject to remarks in Para no.02) in accordance with the contract/technical specifications. e same has been installed and commissioned.
(a)	Contract No dated
(b)	Description of the equipment(s)/plants:
(c)	Equipment(s)/ plant(s) nos.:
(d)	Quantity:
	Bill of Loading/Air Way Bill/Railway Receipt/ Goods Consignment Note no dated
(g)	Name of the vessel/Transporters: Name of the Consignee: Date of commissioning and proving test:
	Details of accessories/spares not yet supplied and recoveries to be made on that
	account.
Sl. No.	Description of Item Quantity Amount to be recovered No.

The proving test has been done to our entire satisfaction and operators have been trained to operate the equipment(s)/plant(s).

The supplier has fulfilled its contractual obligations satisfactorily ## or

The supplier has failed to fulfil its contractual obligations with regard to the following:

He has not adhered to the time schedule specified in the contract in dispatching the documents/drawings pursuant to 'Technical Specifications'.

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He has not supervised the commissioning of the equipment(s)/plant(s)in time, i.e. within the period specified in the contract from date of intimation by the Purchaser/Consignee in respect of the installation of the equipment(s)/plant(s).

The supplier as specified in the contract has not done training of personnel.

The extent of delay for each of the activities to be performed by the supplier in terms of the contract is

The amount of recovery on account of non-supply of accessories and spares is given under Para no.02.

The amount of recovery on account of failure of the supplier to meet his contractual obligations is______ (here indicate the amount).

Signature Name Designation with stamp

Explanatory notes for filling up the certificate:

- i) He has adhered to the time schedule specified in the contract in dispatching the documents/drawings pursuant to 'Technical Specification'.
- ii) He has supervised the commissioning of the equipment(s)/plant(s) in time, i.e. within the time specified in the contract from date of intimation by the Purchaser/Consignee in respect of the installation of the equipment(s)/plant(s).
- iii) Training of personnel has been done by the supplier as specified in the contract.
- iv) In the event of documents/drawings having not been supplied or installation and commissioning of the equipment(s)/plant(s) having been delayed on account of the supplier, the extent of delay should always be mentioned in clear terms.

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SECTION – XIX ANNEXURES

Annexure 1

DETAILS OF SHIPPING ARRANGEMENT FOR LINER CARGOES IN RESPECT OF C & F/CIF/TURNKEY/F.O.R CONTRACTS FOR IMPORTS

1. (a) SHIPMENT FROM PORTS OF U.K INCLUDING NORTHERN IRELAND (ALSO EIRE), FROM THE NORTH CONTINENT OF EUROPE (GERMANY, HOLLAND, BELGIUM, FRANCE, NORWAY, SWEDEN, DENMARK, FINLAND AND PORTS ON THE CONTINENTAL SEABOARD OF MEDITERRANIAN (I.E. FRENCH WESTERN ITALIAN PORTS), TO PORTS IN INDIA.

The Seller should arrange shipment of the goods by vessels belonging to the member lines of the India-Pakistan-Bangladesh Conference. If the Seller finds that the space on the 'Conference Lines' vessels is not available for any specific shipment, he should take up with India-Pakistan-Bangladesh Conference. Conferity House, East Grinstead, Sussex (UK), for providing shipping space and also inform the Shipping Co-ordination Officer, Ministry of Surface Transport, New Delhi, (Cable: TRANSCHART, NEW DELHI, Telex: VAHAN IN – 031 – 61157, 61158, 61159)

The Seller should arrange shipment through the Government of India's Forwarding Agents, M/s Schenker & Co., 2000-Hamburg (Cable: SCHENKER CO., HAMBURG) OR obtain a certificate from them to the effect that shipment has been arranged in accordance with instructions of the Ministry of Surface Transport, (TRANSCHART), New Delhi.

(b) SHIPMENT FORM PORTS OF U.K. INCLUDING NORTHERN

Goods under this contract would be shipped by the national shipping companies of the Contracting Parties operating bilateral shipping service and vessels under the flag of third countries in accordance with the Agreement between the Government of German Democratic Republic and the Government of the Republic of India in the Field of Merchant Shipping signed on 9.1.1979, as amended up-to-date.

(c) ISHIPMENT FROM ADRIATIC PORTS OF EASTERN ITALY AND YUGOSLAVIA

The seller should arrange shipment of the goods by vessels belonging to the following Indian member lines;

- 1. The Shipping Purchaser of India Ltd.
- 2. The Scindia Steam Navigation Co., Ltd
- 3. India Steamship Co., Ltd

For the purpose of ascertaining the availability of suitable Indian vessels and granting dispensation in the event of their non-availability, the Seller should give adequate notice about the readiness of each consignment from time to time at least six weeks in advance of the required position to M/s Schenker & Co. 2000 HAMBURG (Cable: SCHENKER CO., HAMBURG) and also endorse a copy thereof to the Shipping Co-ordination Officer, Ministry of Surface Transport, New Delhi, (Cable: TRANSCHART, NEW DELHI, Telex: VAHAN IN – 031 – 61157, 61158, 61159)

The seller should arrange shipment through the Government of India's Forwarding Agents M/s Schenker & Co. 2000 HAMBURG (Cable: SCHENKER CO., HAMBURG) or obtain certificate from them to the effect that shipment has been arranged in accordance with the instructions of the Ministry of Surface Transport, (TRANSCHART), New Delhi.

(d) SHIPMENT FROM POLAND & CZECHOSLOVAKIA

(i) IMPORTS FROM POLAND

Shipment under this contract would be made by the National flag lines of the two parties and vessels of the third flag conference lines, in accordance with the agreement between the Govt. of the Republic of India and the Govt. of the Polish People's Republic regarding Shipping Co-operation dated 27.6.1960 as amended up-to-date.

(ii) IMPORTS FROM CZECHOSLOVAKIA

Goods under this contract would be signed by the National flag lines of the two parties and vessels of the third flag conference lines, in accordance with the Agreement Co-operation in shipping between India and Czechoslovakia signed on 3.11.1978 and ratified on 19.12.1979, as amended up-to-date.

Shipping arrangement should be made by the Sellers in consultation with Resident Representative of the Indian Shipping Lines in Gdynia, Co., Morska Agencja W. Gdyniul, Pulaskiego 8, P.O. Box 246, Gdynia (Poland) – Telex: MG PL. 054301, Tel.: 207621, to whom details regarding contract number, nature of cargo , quantity, port of lading, discharging, name of Government consignee, expected date of readiness of each consignment etc. should be furnish at least six weeks in advance of the required position, with a copy thereof endorsed to the Shipping Co-ordination Officer, Ministry of Surface Transport, (Chartering Wing), New Delhi, (Cable: TRANSCHART, NEW DELHI, Telex: VAHAN IN – 031 – 61157, 61158, 61159)

(e) SHIPMENT FROM U.S.S.R

Shipment under this contract should be made in accordance with the agreement between the Government of the Republic of India and the Government of U.S.S.R on Merchant Shipping 1976, as amended up-to-date, by vessels of Indo-Soviet shipping Service.

(f) SHIPMENT FROM JAPAN

The shipment of goods should be made of India vessels to the maximum extent possible subject to the minimum of 50%.

The Seller should arrange shipment of the goods in consultation with the Embassy of India in Japan, Tokyo to whom details regarding contract number, nature of cargo, quantity, port of loading/discharge, name of Govt. consignee, expected date of readiness of each consignment etc. should be furnished at least six weeks in advance of the required position.

Note: The copies of such contracts are to be endorsed both to the Attached (commercial) embassy of India in Japan, Tokyo, and the shipping Co-ordination Officer, Ministry of Surface Transport, New Delhi.

(g) SHIPMENT FROM AUSTRALIA, ALGERIA, BULGARIA, ROMANIA, EGYPY

The Seller shall arrange shipment of the goods by Indian flag vessels to the maximum extent possible subject to a minimum of 50 %. For the purpose of ascertaining the availability of suitable Indian vessels, the seller shall give adequate notice of not less than six weeks about the readiness of each consignment to the Shipping Purchaser of India Ltd., SHIPPING HOUSE, 245, Madame Cama Road, Bombay – 400 021 (CABLE: SHIPINDIA BOMBAY) and also endorse a copy thereof to the Shipping Co-ordination Officer, Ministry of Surface Transport, New Delhi, (Cable: TRANSCHART, NEW DELHI, Telex: VAHAN IN – 031 – 61157, 61158, 61159)

(h) SHIPMENT FROM PAKISTAN

The shipment of cargoes should be made by Indian vessels to the maximum extent possible subject to a minimum of 50 %.

Shipment arrangement should be made by the sellers in consultation with M/s Mogul Line Ltd., 16-Bank Street, Fort, Bombay – 400023 (Cable: MOGUL BOMBAY: Telex: 011 – 4049 MOGUL), to whom, details regarding contract number, nature of cargo, quantity, port of lading discharging, name of government consignee, expected date of readiness of each consignment etc. should be furnish at least six weeks in advance of the required position, with a copy thereof endorsed to the Shipping Co-ordination Officer, Ministry of Surface Transport, New Delhi, (Cable: TRANSCHART, NEW DELHI, Telex: VAHAN IN – 031 – 61157, 61158, 61159)

(i) SHIPMENT FROM U.S ATLANTIC & GULF PORTS

The Seller should arrange shipment of the goods by vessels belonging to the member lines of the India – Pakistan – Bangladesh – Ceylon and Burma Outward Freight Conference. If the Seller finds that the space of the 'Conference Lines' vessels is not available for any specific shipment he should take up with India – Pakistan- Bangladesh – Ceylon and Burma Outward Freight Conference, 19, Rector Street, New York, N.Y. 10006 USA, for providing shipping space and also inform the Shipping Co-ordination Officer, Ministry of Surface Transport, New Delhi, (Cable: TRANSCHART, NEW DELHI, Telex: VAHAN IN – 031 – 61157, 61158, 61159)

(i) SHIPMENT FROM ST. LAWRENCE AN EASTERN CANADIAN PORTS

The Seller should arrange shipment of the goods by vessels belonging to the following shipping lines;

- 1. The shipping Purchaser of India Ltd.
- 2. The Scindia Steam Navigation Co., Ltd

If the Seller finds that the space in the vessels of these Lines is not available for any particular consignments, he should inform the Shipping Co-ordination Officer, Ministry of Surface Transport, New Delhi, (Cable: TRANSCHART, NEW DELHI, Telex: VAHAN IN – 031 – 61157, 61158, 61159) immediately so that dispensation from the shipping lines concerned to use alternative lifting may be sought.

(k) SHIPMENT FROM WEST COAST PORTS OF U.S.S CANADA AND OTHER AREAS NOT SPECIFICALLY MENTIONED ABOVE

The Seller should arrange shipment of the goods by Indian vessels to the maximum extent possible subject to a minimum of 50 %. For the purpose of ascertaining the availability of suitable Indian vessels and granting dispensation in the event of their non-availability, the Seller should furnish the details regarding contract number, nature of cargo, quantity, port of lading, discharging, name of government consignee, expected date of readiness of each consignment etc. to the Shipping Co-ordination Officer, Ministry of Surface Transport, New Delhi, (Cable: TRANSCHART, NEW DELHI, Telex: VAHAN IN – 031 – 61157, 61158, 61159) at least six weeks in advance of the required position.

2. BILLS OF LADING

(i) C.I.F./C&F/TURNKEY SHIPMENTS

The Bills of lading should be drawn to indicate Shipper and 'Consignee' as under:

SHIPPER: The C.I.F (C&F)/TURNKEY SUPPLIERS concerned.

CONSIGNEE: As per consignee's particulars in the contract (The name an address of the 'Port

Consignee' and 'Ultimate' both should be indicated).

(ii) F.O.R SHIPMENTS

The Bills of lading should be drawn to indicate shipper Consignee as under:

SHIPPER: The F.O.R suppliers Concerned

CONSIGNEE: Supplier's Indian Agent on order

Note:

- 1. Moreover the name of the 'Purchaser' and 'Ultimate' Consignee should appear in the body of the Bills of Lading as the 'Notify' or as a remark.
- 2. Two non-negotiable copies of the Bills of Lading indicating the freight amount and discount, if any allowed, should be forwarded to The Shipping Co-ordination Officer, Ministry of surface Transport (Chartering Wing), New Delhi after the shipment of each consignment is effected.
- 3. The seller should avoid the use of over-aged vessels for the shipment of the goods under the contract and if so used the cost of additional. Insurance, if any, shall be borne by the seller.

SECTION – XX CHECKLIST

Name of Tenderer:

Name of Manufacturer:

Sl No.	Activity	Yes/ No/ NA	Page No. in the TE document	Remarks
1. a.	Have you enclosed EMD of required amount			
	for the quoted schedules?			
b.	In case EMD is furnished in the form of			
	Bank Guarantee, has it been furnished as per Section XIII?			
c.	In case Bank Guarantee is furnished, have			
	you kept its validity of 165 days from			
	Techno Commercial Tender Opening date as			
	per clause 19 of GIT?			
2. a.	Have you enclosed duly filled Tender Form			
	as per format in Section X?			
b.	Have you enclosed Power of Attorney in			
	favour of the signatory?			
3.	Are you a SSI unit, if yes have you enclosed			
	certificate of registration issued by			
	Directorate of Industries/NSIC			
4. a.	Have you enclosed clause-by-clause			
	technical compliance statement for the			
	quoted goods vis-à-vis the Technical			
	specifications?			
b.	In case of Technical deviations in the			
	compliance statement, have you identified			
	and marked the deviations?			
5. a.	Have you submitted satisfactory			
	performance certificate as per the Proforma			
	for performance statement in Sec. IX of TE			
	document in respect of all orders?			

HSCC India Limited

Sl No.	Activity	Yes/ No/ NA	Page No. in the TE document	Remarks
b.	Have you submitted copy of the order(s) and			
	end user certificate?			
6.	Have you submitted manufacturer's			
	authorization as per Section XIV?			
7.	Have you submitted prices of goods, turnkey			
	(if any), CMC etc. in the Price Schedule as			
	per Section XI?			
8.	Have you kept validity of 120 days from the			
	Techno Commercial Tender Opening date as			
	per the TE document?			
9. a.	In case of Indian Tenderer, have you			
	furnished Income Tax Account No. as			
	allotted by the Income Tax Department of			
	Government of India?			
b.	In case of Foreign Tenderer, have you			
	furnished Income Tax Account No. of your			
	Indian Agent as allotted by the Income Tax			
	Department of Government of India?			
10.	Have you intimated the name an full address			
	of your Banker (s) along with your Account			
	Number			
11.	Have you fully accepted payment terms as			
	per TE document?			
12.	Have you fully accepted delivery period as			
	per TE document?			
13.	Have you submitted the certificate of			
	incorporation?			
14.	Have you accepted the warranty as per TE			
	document?			
15.	Have you accepted terms and conditions of			
	TE document?			

HSCC India Limited

Sl No.	Activity	Yes/ No/ NA	Page No. in the TE document	Remarks
16.	Have you furnished documents establishing			
	your eligibility & qualification criteria as per			
	TE documents?			
17.	Have you furnished Annual Report (Balance			
	Sheet and Profit & Loss Account) for last			
	three years prior to the date of Tender			
	opening?			
18.	Have you quoted all the items under Package			
	/ Section Basis?			

N.B.

- 1. All pages of the Tender should be page numbered and indexed.
- 2. The Tenderer may go through the checklist and ensure that all the documents/confirmations listed above are enclosed in the tender and no column is left blank. If any column is not applicable, it may be filled up as NA.
- 3. It is the responsibility of tendered to go through the TE document to ensure furnishing all required documents in addition to above, if any.

(Signature with date)

(Full name, designation & address of the person duly authorised sign on behalf of the Tenderer) For and on behalf of

(Name, address and stamp of the tendering firm)

Section – XXI Consignee List

Consignee Code	Medical Institutions	Contact Address.	AirPort	Sea Port

NB: The consignee will ensure timely issue of NMIC, CDEC, Octroi Exemption Certificates, Road Permits & Entry Tax Exemption Certificates, wherever applicable, to the suppliers.