

AMENDMENT No. II

Dated: 14.12.2013

Subject: Amendment to the tender Enquiry Document.

Ref: Tender Enquiry No.: HSCC/PUR/AIIA/EQUIPMENT/2012-13 dt. 13.11.2013

The pre-bid meeting for the referred tender enquiry was held on 26.11.2013. The following amendments are being incorporated in the referred tender enquiry document.

SECTION-I
NOTICE INVITING TENDERS (NIT) (Page 12)

Existing

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

Read as

Director (AIIA)

GIT, CLAUSE 1.3 ABBREVIATIONS (PAGE -15):

Existing

“CIP (Destinations)” means Carriage and Insurance Paid up to named port of destination.

Amended as:

“CIP (Destinations)” means Carriage and Insurance Paid up to Consignee Site.

HSCC (India) Ltd

GIT CLAUSE 13.4.2 (PAGE 20)

Existing:

- 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) the charges for Incidental Services, as in the List of Requirements and Price Schedule;

Amended as:

- C) the price of goods quoted CIP (at Consignee Site) Basis as indicated in the List of Requirements & Price Schedule;
- D) the charges for Incidental Services including Customs Duty on (CDEC) basis, Custom Clearance, inland transport upto Consignee's site, installation & commissioning, supervision, Demonstration & training, as in the List of Requirements and Price Schedule;

GCC CLAUSE 10.1 TRANSPORTATION OF GOODS (PAGE 38)

Existing:

The supplier shall not arrange part-shipments and/or transshipment 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;

Amended as:

The supplier shall not arrange part-shipments and/or transshipment without the express/prior written consent of the purchaser. The supplier is required under the contract to deliver the goods under CIP (at Consignee site) basis terms;

GCC CLAUSE 11 INSURANCE, 11.1 (II) (PAGE 38)

Existing:

- ii) In case of supply of the imported goods on CIP Named port of Destination Basis.

HSCC (India) Ltd

Amended as:

ii) In case of supply of the imported goods on CIP (at Consignee site) Basis.

SECTION - VI LIST OF REQUIREMENTS (Page 51)

Existing:

Part VI:

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.

Amended as:

b) For Imported goods directly from abroad:

The foreign tenderers are required to quote their rates on CIP (at Consignee Site) Basis giving breakup of the price as per the amended Proforma prescribed in the Price Schedule.

SCC POINT NO. 12 TENDER CURRENCIES12.1

Existing:

The tenderer supplying indigenous goods or already imported goods shall quote only in Indian Rupees.

HSCC (India) Ltd

Amended as:

The tenderer supplying already imported goods shall quote only in Indian Rupees and shall enclose “**BILL OF ENTRY**” Without this Bill of Entry payment cannot be made.

GIT Clause 21.2- Signing and Sealing of Tender

For :

A tenderer shall submit three copies of its tender marking them as “Original”, “Duplicate” and “Triplicate”

Read as:

A tenderer shall submit 2 copies of its tender marking them as “Original” and “Duplicate”

GCC clause 8.1 : - Inspection, Testing & Quality Control

FOR:

The cost towards the transportation, boarding & lodging will be borne by the purchaser and/or its nominated representative(s).

Read as:

The cost towards the transportation, boarding & lodging will be borne by the purchaser and/or its nominated representative(s) for the first visit. In case the goods are rejected in the first instance and the supplier requests for re-inspection, & if same is accepted by purchaser / consignee / PSA/ PA, all subsequent inspections shall be at the cost of the supplier. The expense will be to and fro. Economy Airfare, Local Conveyance, Boarding and Lodging of the inspection team for the inspection period.”

GCC clause 8.6 : - Inspection, Testing & Quality Control

For:

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.

HSCC (India) Ltd

Read:

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.

"On rejection, the supplier shall remove such stores within 14 days of the date of intimation of such rejection from the consignee's premises. If such goods are not removed by the supplier within the period mentioned above, the purchaser / consignee may remove the rejected stores and either return the same to the supplier at his risk and cost by such mode of transport as purchaser / consignee may decide or dispose of such goods at the suppliers risk to recover any expense incurred in connection with such disposals and also the cost of the rejected stores if already paid for."

GIT Clause 16.3

16.3 Only one tenderer is permitted to quote for the same manufacturer irrespective of models.

READ AS:

- a). If a tenderer, either the Indian Agent on behalf of the Principal / OEM or Principal / OEM itself can bid but both cannot bid simultaneously for the same item/ product in the same tender
- b). If an agent submits bid on behalf of the Principal / OEM, the same agent shall not submit a bid on behalf of another Principal / OEM in the same tender for the same item / product.

**In the Price Schedule Section XI Price Schedule for Annual Comprehensive Maintenance Contract after Warranty Period.
(NOTE 3)**

FOR:

The taxes to be paid extra.

READ As:

The taxes to be paid extra. Present rate of taxes to be indicated.

In the Tender form (Section X) of the Tender Enquiry Document

For:

“for the sum of _____ (total tender amount in figures and words), as shown in the price schedule(s), attached herewith and made part of this tender.

Read As:

“for the sum as shown in the price schedules attached herewith and made part of this tender.”

GCC Clause 15.5

FOR:

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

READ As:

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 till the completion of the original warranty period of the main equipment.

HSCC (India) Ltd

In GIT Clause 34.1 with regard to CMC charges.

For:

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.

Read as:

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 after discounting the quoted price by a discounting factor of 10% per annum.”

In the price schedule for CMC

For :

1	2	3	4			5
Schedule No.	BRIEF DESCRIPTION OF GOODS	QUANTITY. (Nos.)	Annual Comprehensive Maintenance Contract Cost for Each Unit year wise*.			Total Annual Comprehensive Maintenance Contract Cost for 3 Years [3 x (4a+4b+4c)]
			1 st	2 nd	3 rd	
			a	b	c	

HSCC (India) Ltd

Read as:

1	2	3	4			5	6
Schedule No.	BRIEF DESCRIPTION OF GOODS	QUANTITY. (Nos.)	Annual Comprehensive Maintenance Contract Cost for Each Unit year wise*.			Total Annual Comprehensive Maintenance Contract Cost for each unit for 3 years (4a+4b+4c)	Annual Comprehensive Maintenance Contract Cost for 3 Years [3 x 5]
			1 st	2 nd	3 rd		
			a	b	c		

HSCC (India) Ltd

EXISTING

**SECTION – XI PRICE SCHEDULE
B)PRICE SCHEDULE FOR GOODS TO BE IMPORTED FROM ABROAD**

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

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

Total Tender price in foreign currency: _____

In words: _____

Note: -

1. If there is a discrepancy between the unit price and total price THE UNIT PRICE shall prevail.
2. The charges for Annual CMC after warranty shall be quoted separately as per Section – XI – Price Schedule C
3. The Tenderer will be fully responsible for the safe arrival of the goods at the named port of entry in good condition as per terms of CIP as per INCOTERMS, if applicable

Indian Agent:

Indian Agency Commission - ___% of FOB

Signature of Tenderer _____

Place: _____

Date: _____

Name _____

Business Address _____

Signature of Tenderer _____

Seal of the Tenderer _____

HSCC (India) Ltd

AMENDED AS:

**SECTION – XI PRICE SCHEDULE
B)PRICE SCHEDULE FOR GOODS TO BE IMPORTED FROM ABROAD**

1	2	3	4	5					6
Schedule	Brief Description of Goods	Country of Origin	Quantity (Nos.)	Price per unit (Currency)					Total price on CIP (at Consignee Site) basis 4X 5 (e)
				FOB price at port/ airport of Lading (a)	Carriage & Insurance (port of loading to port of entry) and other Incidental costs** (b)	Incidental Services (including Custom Duty (on CDEC basis), Custom Clearance, Transportation upto Consignee Site, Installation & Commissioning, Supervision, Demonstration and Training) at the Consignee's site** (c)	Extended Insurance (local transportation and storage) from port of entry to the consignee site for a period including 3 months beyond date of delivery** (d)	Unit Price on CIP (at Consignee Site) basis (e) = a+b+c+d	

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

Total Tender price in foreign currency: _____

In words: _____

Note: -

1. If there is a discrepancy between the unit price and total price THE UNIT PRICE shall prevail.
2. The charges for Annual CMC after warranty shall be quoted separately as per Section – XI – Price Schedule C
3. The Tenderer will be fully responsible for the safe arrival of the goods at Consignee site.

Indian Agent:

Indian Agency Commission - __% of FOB

Signature of Tenderer _____

Place: _____

Date: _____

Name _____

Business Address _____

Signature of Tenderer _____

Seal of the Tenderer _____

HSCC (India) Ltd

SECTION – X,
TENDER FORM (PAGE 150)

Existing:

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

Amended as:

To,
Director,
All India Institute of Ayurveda (AIIA)
Gautampuri, Mathura Road
Sarita Vihar
New Delhi

SECTION – XIII
BANK GUARANTEE FORM FOR EMD

To be added

To,
Director,
All India Institute of Ayurveda (AIIA)
Gautampuri, Mathura Road
Sarita Vihar
New Delhi

HSCC (India) Ltd

SECTION – XIV MANUFACTURER’S AUTHORISATION FORM (Page No. 157)

Existing:

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

Amended as:

To,
Director,
All India Institute of Ayurveda (AIIA)
Gautampuri, Mathura Road
Sarita Vihar
New Delhi

SECTION – XV BANK GUARANTEE FORM FOR PERFORMANCE SECURITY/ CMC SECURITY

Existing:

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

HSCC (India) Ltd

Amended as:

To,
Director,
All India Institute of Ayurveda (AIIA)
Gautampuri, Mathura Road
Sarita Vihar
New Delhi

NIT Point 10

FOR :

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.

READ AS:

Bidders are requested to submit separate bid for every package & must quote for all the items of the package. Bids will be evaluated on Package wise basis. All bidders must quote accordingly; otherwise bid will be summarily rejected.

SECTION – XI PRICE SCHEDULE

All the items of the package should be quoted in the same price schedule format.

HSCC (India) Ltd

The List of packages / EMD's have been revised & the same are mentioned as here under. Bidders are requested to quote accordingly. The list of packages mentioned in the original tender stands deleted

PACKAGE NO. 01- PRE-PHARMACY SECTION

S.NO.	NAME OF THE EQUIPMENT/ INSTRUMENT	Qty	EMD (In Rs.)
1	Electronic Weighing Balance	1	3,61,800
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	
8	Juicer machines	1	
9	Herbal drum washing m/c	1	
10	Hydraulic pressure trolley	1	

PACKAGE NO. 2- POWDER SECTION

S.NO.	NAME OF THE EQUIPMENT/ INSTRUMENT	Qty	EMD (In Rs.)
1	Herbal Disintegrator Machine	1	16,800
2	Mini pulverizer	1	
3	Cyclone type pulverizer	1	
4	Powder and mass mixer	1	
5	Vibrio sifter	1	

HSCC (India) Ltd

PACKAGE NO. 03- TABLET SECTION

S.NO.	NAME OF THE EQUIPMENT/ INSTRUMENT	Qty	EMD (In Rs.)
1	Electric Hot air Tray dryer	1	24,900
2	Paste kettle	1	
3	Multimill	1	
4	Octagonal blender	1	
5	Vibrio sifter	1	
6	Tablet inspection Belt	1	
7	Colour tank	2	
8	Industrial stirrer	1	

PACKAGE NO. 04- CAPSULE SECTION

S.NO.	NAME OF THE EQUIPMENT/ INSTRUMENT	Qty	EMD (In Rs.)
1	Hand filling cap machine (From tablet section s.no.15)	1	1,500

PACKAGE NO. 05 -ARK EYE

S.NO.	NAME OF THE EQUIPMENT/ INSTRUMENT	Qty	EMD (In Rs.)
1	Distillation assembly	1	1,500

HSCC (India) Ltd

PACKAGE NO. 06- ASAVA

S.NO.	NAME OF THE EQUIPMENT/ INSTRUMENT	Qty	EMD (In Rs.)
1	Wooden vats (200 liters)	10	18,000
2	Wooden vats (100 liters)	5	

PACKAGE NO. 07- OINTMENT SECTION

S.NO.	NAME OF THE EQUIPMENT/ INSTRUMENT	Qty	EMD (In Rs.)
1	Planetary mixer	1	5,500
2	Homogenizer	1	

PACKAGE NO. 08- RASA AUSHADHI SECTION

S.NO.	NAME OF THE EQUIPMENT/ INSTRUMENT	Qty	EMD (In Rs.)
1	Stone crushing machine	1	6,500
2	Fine pulverizing (stone) mill	1	
3	Electric Hot air Tray dryer	1	

HSCC (India) Ltd

PACKAGE NO. 09- Electricity operated double jacketed vessels

S.NO.	NAME OF THE EQUIPMENT/ INSTRUMENT	Qty	EMD (In Rs.)
1	Electricity operated double jacketed vessel for preparing syrup (SYRUP SECTION)	1	17,500
2	Electricity operated double jacketed closed pan for manufacturing oil (OIL SECTION)	2	
3	Electricity operated double jacketed closed pan for production of avaleha (avaleha section)	2	
4	Electricity operated double jacketed vessel (rasa ausadhi section)	1	
5	Cooking kettle - kettles fixed type 1 no. (with Teflon scrapper attachment) (oil Section)	1	

HSCC (India) Ltd

PACKAGE NO. 10- Pumps

S.NO.	NAME OF THE EQUIPMENT/ INSTRUMENT	Qty	EMD (In Rs.)
1	Centrifugal Pump for syrup manufacturing (SYRUP SECTION)	1	3,700
2	Transfer pump for asava production (Asava section)	1	

PACKAGE NO. 11- Centrifuge filters

S.NO.	NAME OF THE EQUIPMENT/ INSTRUMENT	Qty	EMD (In Rs.)
1	Centrifuge filter (SS 316) (SYRUP SECTION)	1	3,000
2	Centrifuge filter (SS 316) (OIL SECTION)	1	
3	Centrifuge filter (SS 316) (rasa ausadhi Section)	1	

HSCC (India) Ltd

PACKAGE NO. 12- filter press

S.NO.	NAME OF THE EQUIPMENT/ INSTRUMENT	Qty	EMD (In Rs.)
1	Filter press (OIL SECTION)	1	2,000
2	Filter press (SYRUP SECTION)	1	

PACKAGE NO. 13- STORAGE AND MATERIAL HANDLING PACKAGE

FOR PRE-PHARMACY UNIT			55,120/-
1	Storage container	200	
2	Storage racks	10	
3	Pallates	25	
FOR POWDER MANUFACTURING UNIT			
4	Storage bins	5	
FOR ARK/EYE DROP MANUFACTURING UNIT			
5	Storage vessel	2	
FOR SYRUP MANUFACTURING SECTION			
6	Storage vessel	1	
FOR MEDICATED OIL PROCESSING UNIT			
7	Storage vessel	100 Ltrs = 4 Nos 50 Ltrs =6 Nos.	

HSCC (India) Ltd

FOR ASAVA/ARISA PREPARATION SECTION		
8	Storage vessel	100 Litres=05 Nos. 200 Litres= 10 Nos.
FOR AVALEHA MANUFACTURING UNIT		
9	Storage vessel/pan	2
FOR USE IN OINTMENT PRODUCTION UNIT		
10	Storage vessels	2
FOR USE IN RASA AUSADHI MANUFACTURING UNIT		
11	Storage vessel	2

PACKAGE NO. 14- Misc. section

S.NO.	NAME OF THE EQUIPMENT/ INSTRUMENT	Qty	EMD (In Rs.)
1	Batch coding machine	1	4,140
2	Carton strapping machine	1	
3	Carton sealing machine	1	
4	Hand Batch printing machine	1	
5	Tape Dispenser (manual)	1	

HSCC (India) Ltd

PACKAGE NO. 15

S.NO.	NAME OF THE EQUIPMENT/ INSTRUMENT	Qty	EMD (In Rs.)
1	Automatic Herbal Cleaning, washing, Drying, Grinding, shifting, Mixing, metal detection system for powder Section (Powder section)	1	1,10,000

PACKAGE NO. 16

1	Rapid mixer granulator (Tablet section)	1	21,000
---	--	---	--------

PACKAGE NO. 17

1	Fluid bed dryer, with Trolley (Tablet section)	1	15,000
---	---	---	--------

PACKAGE NO 18

1	Pills machine (Motorized) (Tablet section)	3	3,000
---	---	---	-------

PACKAGE NO. 19

1	Rotary RSP 16 stn "D" Tooling (Tablet section)	1	11,000
---	---	---	--------

HSCC (India) Ltd

PACKAGE NO. 20

1	Coating pan (Tablet section)	1	6,000
---	---------------------------------------	---	-------

PACKAGE NO 21

1	Capsule autoloader (Tablet section)	1	3,500
---	--	---	-------

PACKAGE NO. 22

1	Ointment / Cream Manufacturing Plant (Ointment section)	1	24,000
---	--	---	--------

PACKAGE NO.23

1	Programmed muffle furnace (Rasa Ausadhi Section)	1	6,000
---	---	---	-------

PACKAGE NO. 24

1	End runner mill (granite) (Rasa ausadhi section)	2	6,000
---	---	---	-------

HSCC (India) Ltd

PACKAGE NO. 25

1	Edge runner (Rasa ausadhi section)	2	6,000
---	-------------------------------------	---	-------

PACKAGE NO. 26

1	Ball mill (Rasa ausadhi Section)	1	4,000
---	-----------------------------------	---	-------

PACKAGE NO. 27

1	Pouch filling & sealing machine	1	4,000
---	---------------------------------	---	-------

PACKAGE NO. 28

1	Viscous liquid filling machine	1	4,000
---	--------------------------------	---	-------

PACKAGE NO. 29

1	Vacuum filler	1	1,000
---	---------------	---	-------

PACKAGE NO. 30

1	Automatic Form Fill & seal machine(powder)	1	4,000
---	--	---	-------

HSCC (India) Ltd

PACKAGE NO. 31

1	Automatic Form Fill & seal machine. (coarse powder)	1	5,000
---	--	---	-------

PACKAGE NO. 32

1	Automatic Form Fill & seal machine (liquid item)	1	5,000
---	--	---	-------

PACKAGE NO. 33

1	Automatic Volumetric Liquid Filling Machine	1	10,000
---	--	---	--------

PACKAGE NO. 34

1	Blister packing machine	1	15,000
---	-------------------------	---	--------

PACKAGE NO. 35

1	Augar Powder filling, bottle sealing, capping, labeling machine	1	4,000
---	---	---	-------

PACKAGE NO. 36 QUALITY CONTROL LAB SECTION

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

PACKAGE NO. 37 CHEMISTRY

S.NO	NAME OF THE EQUIPMENT/ INSTRUMENT	NO.	EMD
			(In Rs.)
1	ELECTRONIC WEIGHING BALANCE:-	2	48,950.00
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	
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 controller	2	

HSCC (India) Ltd

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	Oil water bath with stirrer	1
24	Hot air oven	1
25	Hardness tester (Monsento type)	1
26	Digital centrifugal table top machine	1
27	Hygrometer	6
28	Viscometer	1
29	Digital Viscometer	1
30	Bulk density apparatus	1
31	Boiling point determination	1
32	Melting point apparatus (digital type)	1

HSCC (India) Ltd

33	Sieves 10 to 120 with sieve shaker	1
34	Stability testing chamber (Digital display & per G.M.P. Standard) for C.R.T.Study & Accelerated Study	2
35	Alcohol content determination apparatus	1
36	Limit test apparatus	1
37	TLC apparatus with all accessories	1 set
38	GRINDER (Mini Grinder for laboratory)	1
39	Fume hood	1
40	Refrigerator	1

HSCC (India) Ltd

INSTRUMENT SECTION

S.NO	NAME OF THE EQUIPMENT/ INSTRUMENT	NO.	EMD
			(In Rs.)

PACKAGE NO. 38

1	UV vis spectrophotometer	1	14,000.00
---	--------------------------	---	-----------

PACKAGE NO. 39

1	AAS	1	80,000.00
---	-----	---	-----------

PACKAGE NO. 40

1	HPLC	1	60,000.00
---	------	---	-----------

PACKAGE NO. 41

1	HPTLC	1	150,000.00
---	-------	---	------------

PACKAGE NO. 42

1	GCMS	1	130,000.00
---	------	---	------------

HSCC (India) Ltd

PACKAGE NO. 43

1	Water purification system	1	7,000.00
---	---------------------------	---	----------

PACKAGE NO. 44 PHARMACOGNOSY

S.NO	NAME OF THE EQUIPMENT/ INSTRUMENT	NO.	EMD
			(In Rs.)
1	Microtome	1	40,800.00
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	
13	Water bath (stainless steel body-6 holes)	1	
14	Muffle furnace (Digital)	1	
15	Stage micrometer	1	
16	Ocular micrometer	1	
17	Hot air oven (Digital)	1	

HSCC (India) Ltd

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.	

PACKAGE NO. 45 MICROBIOLOGY

S.NO	NAME OF THE EQUIPMENT/ INSTRUMENT	NO.	EMD
			(In Rs.)
1	Hot air oven	1	16,570.00
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	
10	Refrigerator	1	
11	Heating mantle	1	
12	Vortex shaker M/c	1	
13	Zone reader (antibiotic)	1	

HSCC (India) Ltd

14	Water bath	1
15	Magnetic stirrer	
16	pH meter	2
17	Fogger for fumigation	1

PACKAGE NO. 46 PANCHAKARMA

S. No.	Name of Items	EMD In (Rs)
1	DRONI (with stand)	2,12,520.00
	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	
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	

HSCC (India) Ltd

13	MATRA VASTI/TAILA VASTI YANTRA
14	SHIRO VASTI
15	KSHARA SUTRA Cabinet
16	TAP SWEDAN YANTRA (Lying type)

For some of the items the specifications have been revised. For such items the revised specifications are given below. For rest of the items the specifications as given in the original tender will prevail.

MODIFICATIONS IN TECHNICAL SPECIFICATION.

INSTRUMENTATION SECTION

GCMS/GCMS

This instrument specification is for a bench-top mass spectrometer configured for integrated GC/MS/MS analysis of Pesticide residues in applications like Persistent Organic Pollutants. Tandem mass spectrometry on space and tandem mass spectrometry on time will be considered.

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) with swapping/ without breaking instrument vacuum.
- A probe vacuum lock must be fitted to allow direct insertion probe to be inserted and maintain the instrument vacuum.
- Positive and negative ionisation capabilities must be included as standard feature on the instrument.
- The inner source should be easy accessible cleaning and rapid maintenance.
- GC Interface: Simple, robust, GC re-entrant tube capable of heating to 350°C. The re-entrant and heater is held entirely in high vacuum minimising heat losses and reducing hot or cold spots/the MS interface should have programmable heating to avoid cold spots.

MASS ANALYSER

- The instrument must incorporate a high performance mass analyser with resolution of 0.5 amu or better.
- 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 quadrupoles must have 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.

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 pre-settable and digitally controlled.
- Collision cell gas pressure must be directly monitored in the range 1×10^{-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.

DETECTOR

- The instrument must incorporate an off-axis dynolite photomultiplier detector/electron multiplier 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/ electron multiplier detector 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 4×10^6 .

VACUUM SYSTEM

- The instrument must incorporate a clean differentially pumped, automated vacuum system. There must be aircooled turbomolecular 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.

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 $120^\circ\text{C}/\text{min}$ or more
- Fast GC with Cooling rate from 450°C to 50°C within 4 minutes or better
- FID with sensitivity of $< 1.5 \text{ pgC}/\text{seconds}$ & Linear dynamic range: 10^7 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.

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 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 or 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

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

COLLISION ENERGY: The collision energy is Pre-settable or programmable to 60 eV

MASS STABILITY

The instrument must exhibit a maximum mass drift of less than 0.1Da in 24 h – 48 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.

HSCC (India) Ltd

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 octafluoronaphthalene onto a capillary column must be greater than 800:1

- CI PCI Full Scan 100 pg Benzophenone m/z 183 \geq 500:1
- NCI Full Scan 1.0 pg OFN m/z 272 \geq 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 or 222 generated in MRM, EI mode, on injection of 100 fg octafluoronaphthalene 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.
- 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. EI Filaments (05 no.)
 8. Column cutter (01 no.)
 9. Gas tube cutter (01 no.)
 10. Tool kit

HSCC (India) Ltd

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.

ATOMIC ABSORPTION SPECTROSCOPY (AAS)

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

Computer controlled high performance fully automatic true double beam atomic operating on WINDOWS based software, in accordance to GLP/GMP norm for Operation 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 witching) 0.1-2.0nm/0.2-2.0nm with D2 lamp background correction.
- Detector: 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.

HSCC (India) Ltd

- Fully inert nebulizer.
- Gas flow rate optimization, Gas System with automatic flame change over, full 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 30000 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 Laser 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 preheater for 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, aqueous 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,
- Graphite 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 necessary 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

HSCC (India) Ltd

- 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.

HSCC (India) Ltd

Modifications/Corrections in Technical specification

S. No.	Reference	Name of instrument/Equipment	Specifications after modification/correction
1	Tablet section Page no. 62	Hot Air Oven Tray Dryer	<ul style="list-style-type: none"> • 24 Tray capacity Tray specifications • with 6 kW heaters • 1 HP/3 phase motor • Double walled body • Stainless steel (316) covering of inside chamber • Outer body is to be made out of SS 316 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	ARK/ EYE DROP SECTION Page no. 74,	Distillation Assembly	<p><u>DISTILLATION UNIT</u> GMP model, All contact part are SS 316 and non contact part SS 304 quality The distillation/extraction cap of the plant shall be thus 100 Ltrs. The whole unit consists of three parts:-</p> <p>a) <u>Main Vessel :-</u> Tripplle walled consisting of inner vessel which is a pressure vessel made of 316 quality, Stainless Steel with solvent storage at the bottom with removable S.S sieve in the middle to hold crude herbal drug. The inner vessel is enclosed with vessel in which runs the thermic oil for heating purpose and is fitted with electric heaters, thus can heat the inside solvent to the maximum temperature of 100°C controlled by thermostate, contactor, indicator etc all fitted on panel box. The outer vessel is insulated with thick quality glass wool to minimise the loss of heat and finally cladded with S.S sheet of 316 quality. The inner pressure vessel is connected to a upper lid clamped by pressure gasket, pressure gauze & closing units.</p> <p>b) <u>Connecting Pipes & Connecting unit</u> The upper lid is connected through S.S pipe to a condensing unit all made of S.S.</p>

HSCC (India) Ltd

			<p>The S.S. condenser outlet tube is connected to a double way valve, in which one valve is connected to the pipes, which is further to the inside of the jacketed vessel which thus spray the condensed solvent, over the crude herbal drugs and extract the material & thus collected at the base.</p> <p>Solvent collecting unit The other two way size of the valve at the end of the condensing unit made of 316 quality stainless steel is further connected to the collecting vessel through S.S. pipe. The collecting vessel is closed type fitted on S.S stand with S.S. ball valve for removal of collected condensed solvent.</p>
3	Rasa ausadhi section Page no. 93	End Runner Mill:	<ul style="list-style-type: none"> • 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 (Inside of Mortar to be taper shaped) • Complete S.S model of Granite and body of S.S. is required. • All contact part are SS 316 and non contact part SS 304 quality. • Working volume 50 kg
4	Rasa ausadhi section Page no. 93,	Ball Mill :	<ul style="list-style-type: none"> • 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 SS plate (As per GMP model, All contact part are SS 316 and non contact part SS 304 quality is required) • 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.

HSCC (India) Ltd

			<ul style="list-style-type: none"> • Capacity ; 50 kg • Motor: 2 HP/3 phase/440 volts • All contact part made from stainless steel 316 quality
5	Rasa ausadhi section Page no. 93-94,	Electric Hot Air Tray Oven :	<ul style="list-style-type: none"> • 24 Tray capacity Tray specifications • with 6 kW heaters • 1 HP/3 phase motor • Double walled body • Stainless steel (316) covering of inside chamber • Outer body is to be made out of SS 316 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
6	Rasa ausadhi section Page no. 94,	Centrifuge Filter (SS 316):	<ul style="list-style-type: none"> • Standard GMP compliance model • 50 liter capacity • All contact part are made of SS 316 and non contact part SS 304 quality, • drum Dia 30 inch, height 24 inch, • loading valve dia 12 inch , • drum Speed 1900 r/min or better, • fitted with standard make suitable motor for filtration function • Accessories-poly strain bag for drum
7	Rasa ausadhi section Page no. 94	Storage Vessels:	<ul style="list-style-type: none"> • 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.

HSCC (India) Ltd

			<ul style="list-style-type: none"> • 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 <p>Also may be Separate quoted for SS 316 quality – optional</p>
8	Packaging section Page no. 98	Automatic volumetric liquid filling machine	<p>GMP compliance model complete in all respects with two filling heads and all contact parts of ss-304, with adjustable nozzle, 1 HP/3 phase elec. Motor, starter, suitable 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, Three set of change part require with the filling machine 1. 5-50 ml, 50-100 ml, 100-250 ml</p> <p>Optional Accessories :-</p> <ul style="list-style-type: none"> • 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
9	Syrup section Page no. 76	Centrifuge Filter	<ul style="list-style-type: none"> • Standards GMP compliance model • All contact part are made of SS 316 and non contact part SS 304 quality, GMP model, • 50 liter capacity <p>drum Dia 30 inch, height 24 inch, loading valve dia 12 inch , drum Speed 1900 r/min or better, fitted with standard make suitable motor for filtration function</p> <p>Accessories-poly strain bag for drum</p>

HSCC (India) Ltd

10	Syrup section, page no. 76	St. Steel Double/Triple walled Electrically Operated Syrup Heating Tank	<p>STAINLESS STEEL DOUBLE TRIPPLE WALLED ELECTRICALLY OPERATED Syrup HEATING TANK</p> <ul style="list-style-type: none"> • Made of SS 316 • 200 liter • all contact parts are required of S. S. 316 quality <p>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.</p> <p>Ball valve for solution removal with oil inlet / outlet provisions, supplied without oil.</p> <p>Capacity 200 liters Gauge in SWG 16 SWG / 6 K.W Heater Load 3 Heater of 2 kw / 6 kw</p> <p>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</p> <p>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 clad with St. Steel Sheet. 200 It. Mixing capacity, with 1 HP elect. Motor</p>
11	Syrup section, page no. 76	Reg. Filter Press	<ul style="list-style-type: none"> • GMP model, • Horizontal filter press (Sparkler type) used for crystal clear filtration of liquid oral & oil dosage form of ay. Pharmaceuticals. • filter press consists of a filter cartridge assembly with stainless

HSCC (India) Ltd

			<p>steel filter plates, support screens interlocking cups.</p> <ul style="list-style-type: none"> • SS pressure vessel with lid. SS pump etc. • It should be mounted on SS trolley with castor wheels for mobility. • The liquid is pumped into the vessel where it enters into the individual plates and filtered through the filter cloth or paper and comes out through a central channel formed by interlocking cups. The cake formed between the plates can be obtained if required. • provided with different Gear pump . • All contact parts in SS 316 quality & mirror polished. • Non contact part in SS 304 quality, • SS jacket can be provided for hot filtration, • Accessories- 6 plate filter bag • Plate diameter: 8" • No. of plates: 6 • Filtering area M2:0.21 • Cake holding cap. In ltrs. : 4.78 • Output ltrs./ hr. : 600 • Motor hp: 1 • Size/ type of gear pump: 1/2" gear pump
12	Oil section, page No. 79	Centrifuge filter	<p>Standards GMP compliance model, All contact part are made of SS 316 and non contact part SS 304 quality, 50 liter capacity drum Dia 30 inch, height 24 inch, loading valve dia 12 inch , drum Speed 1900 r/min or better, fitted with standard make suitable motor for filtration function</p> <p>Accessories-poly strain bag for drum</p>
13	Oil section, page No. 79	Filter Press	<ul style="list-style-type: none"> • GMP model, • Horizontal filter press (Sparkler type) used for crystal clear filtration of liquid oral & oil dosage form of ay. Pharmaceuticals. • filter press consists of a filter cartridge assembly with stainless steel filter plates, support screens interlocking cups.

HSCC (India) Ltd

			<ul style="list-style-type: none"> • SS pressure vessel with lid. SS pump etc. • It should be mounted on SS trolley with castor wheels for mobility. • The liquid is pumped into the vessel where it enters into the individual plates and filtered through the filter cloth or paper and comes out through a central channel formed by interlocking cups. The cake formed between the plates can be obtained if required. • provided with different Gear pump . • All contact parts in SS 316 quality & mirror polished. • Non contact part in SS 304 quality, • SS jacket can be provided for hot filtration, • Accessories- 6 plate filter bag • Plate diameter: 8" • No. of plates: 6 • Filtering area M2:0.21 • Cake holding cap. In ltrs. : 4.78 • Output ltrs./ hr. : 600 • Motor hp: 1 • Size/ type of gear pump: 1/2" gear pump
14	Oil section, page No. 79	St. Steel Double Triple walled Electrically operated Oil Heated Tank:	<p>STAINLESS STEEL DOUBLE TRIPPLE WALLED ELECTRICALLY OPERATED OIL HEATING TANK</p> <ul style="list-style-type: none"> • 100 liter • Made of SS 316 • Design shall be suitable for Taila paka process used in Ayurvedic pharmacy <p>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.</p>

HSCC (India) Ltd

			<p>Ball valve for solution removal with oil inlet / outlet provisions, supplied without oil.</p> <p>Capacity 100 liters</p> <p>Gauge in SWG 16 SWG / 6 K.W</p> <p>Heater Load 3 Heater of 2 kw / 6 kw</p> <p>Optional:</p> <p>i) If External Marking required with Glass Tube & Complete Valve fitting</p> <p>ii) Cost of Digital Temp indicator / controller with Pannel Box for above instead of thermostat</p> <p>b) with Inbuild INDUSTRIAL MOTORISED STIRRER - GMP MODEL</p> <p>Complete in all respects with all contact parts of Stainless Steel quality, mounted on m.s angle frame Stand clad with St. Steel Sheet. 200 lt.</p> <p>Mixing capacity, with 1 HP elect. Motor</p> <p>Also may be Separate quoted for SS 316 quality – & size variant like 50 liter & 200 liter</p>
15	Oil section, page No. 79	Storage Vessel:	<ul style="list-style-type: none"> • 100 liter (requirement = 4 no.) • 50 liter (requirement = 6 no.) • 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

HSCC (India) Ltd

			<ul style="list-style-type: none"> • With ball valve for solution removal. • Gauge: 16 SWG <p>Also may be Separate quoted for SS 316 quality – win50/100 liter&other size variant like 200 l</p>
16	QUALITY CONTROL LAB SECTION, Page no 102	D.M water plant	<ul style="list-style-type: none"> • Standard make & design • compliance with WHO GMP norm • Output capacity 500 ltr/hr
17	Avaleha section Page no. 84	Steam Operated double jacketed closed Pan (correct the heading as Electric Operated double jacketed closed Pan)	<p>STAINLESS STEEL DOUBLE WALLED ELECTRICALLY OPERATED Pan ,</p> <ul style="list-style-type: none"> • 200 liter • Made of SS 316 • Design shall be suitable for Aveleha paka/Chyawanprash like process used in Ayurvedic pharmacy <p>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</p> <ol style="list-style-type: none"> If External Marking required with Glass Tube & Complete Valve fitting Cost of Digital Temp indicator / controller with Pannel Box for above instead of thermostat

HSCC (India) Ltd

			<p>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 clad with St. Steel Sheet. 200 lt. Mixing capacity, with 1 HP elect. Motor Also may be Separate quoted for SS 316 quality (optional)</p>
18	Page no. 82, ASHVA/ARISHTA SECTION,	Storage Vessel	<ul style="list-style-type: none"> • 200 ltr – 10 qty. • 100 ltr - 5 qty. vessels made out of stainless steel sheet of 304 quality, <input checked="" type="checkbox"/> Stainless steel legs mounted on wheels. <input checked="" type="checkbox"/> Wheels with two ball bearing for efficiently working, especially rounded from circumference for easy rotation. <input checked="" type="checkbox"/> 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. <input checked="" type="checkbox"/> The tanks should also provided with 'Internal Marking' in liters at various levels- calibrated <input checked="" type="checkbox"/> With ball valve for solution removal.
19	Page no. 82	Wooden vats	<ul style="list-style-type: none"> • Suitable design as traditionally used in Asava Arishitha Preparation • Made-up of "SAAL" wood • 200 liter= 10 no. required • 100 liter= 05 nos. required •
20	Page no.136	Bacteriology colony counter	<ul style="list-style-type: none"> • An accurate & easy to operate Instruments for counting of Bacterial & Mould Colonies in Petridishes. DISPLAY: 3.5 Digital LED • Digital display: 3 digit, 999 max count

HSCC (India) Ltd

			<ul style="list-style-type: none">• DISH SIZE: 110 mm• MAGNIFICATION: X1.7• POWER: 50 Hz AC• STD: auto Marking Pen No1• ACCESSORIES: Magnifier Lens - 1No. Dust Cover - 1No. 110mm Dia Magnifying Glass. Uniform glare free illumination.
21	Page no.55	HYDRAULIC PRESSURE TROLLEY	<ul style="list-style-type: none">• GMP compliance• Hand hydraulic lift pallet trolley• Lift drive/actuation-Hand• Lifting height: 20cm• Loading Capacity-2000-3000 tons• wheel : 4, nylon• Handle: rubber coated• Tandem load roller