

Amendment No. 3

Date: 17.02.2017

Subject: Amendment no. 3 to the Tender Enquiry Document**Ref: (i) Tender Enquiry No.: HLL/PCD/PMSSY-II/NAGPUR/18/16-17 dated 21.12.2016**

The due date for submission of bids is revised as follows:

Section I**Notice Inviting Tenders(NIT)****For:-**

Sl. No.	Description	Schedule
c	Closing date & time for submission of tender fee and EMD in physical form	20.02.2017, 1400 hrs (IST) Bidders have to submit Original Bank Instruments viz. DD/BC/BG of tender fee and EMD within the above mentioned date and time
d	Closing date & time for submission of online bids	20.02.2017, 1200 Noon (IST)
e	Time and date of opening of online bids	20.02.2017, 1500 hrs (IST)

Read as:-

Sl. No.	Description	Schedule
c	Closing date & time for submission of tender fee and EMD in physical form	<u>03.03.2017, 1400 hrs (IST)</u> Bidders have to submit Original Bank Instruments viz. DD/BC/BG of tender fee and EMD within the above mentioned date and time
d	Closing date & time for submission of online bids	<u>03.03.2017, 1200 Noon (IST)</u>
e	Time and date of opening of online bids	<u>03.03.2017, 1500 hrs (IST)</u>

Note:

- i. If EMD is submitted in the form of BG, then the validity of the BG should be at least 165 days from the date of tender opening, i.e., upto 15.08.2017.**
- ii. Tender fee (Rs. 5,000/-) and EMD (As applicable) should be deposited in the Tender Box located at HLL Lifecare Limited, Procurement and Consultancy Division, B-14 A, Sector-62, Noida-201307, Uttar Pradesh on or before 03.03.2017, 1400 hrs (IST). Submission beyond stipulated date & time would result in REJECTION of BID.**

Technical Amendment**Upgrading 9 Operation Theatres****1. Existing Para. 8:- Theatre Control panel**

- a) The control panel should be touch screen panel. This control panel should work as the central control panel for the HVAC controls, instruction board. Touch screen, OT light control. The controller should be capable of adjusting the temp adjustment of +/- 5 Deg with in 5Minutes. It should be CE or UL Listed.

Read As:

a) The control panel should be touch screen panel **of minimum size of 19"**. This control panel should work as the central control panel for the HVAC controls, instruction board. Touch screen, OT light control. The controller should be capable of adjusting the temp adjustment of +/- 5 Deg with in 5 Minutes. It should be CE or UL Listed.

2. Existing Para.15:- LED OT Ceiling Light

O).-Dimming range: **30%-80%**

Read as:

O).-Dimming range: **30% - 100%**

3. Existing Para 15.g Illumination Level : 160000Lux Major Dome & 120000Lux Minor dome:

Read as:

160000Lux in both Major & Minor dome.

4. Existing Para 15.Q: Life of light source be > 30000 Hrs.

Read as:

Life of light source be > **50000 Hrs.**

5. Existing Para 15.R: There should be a provision to mount the camera in one dome

Read as:

There should be a provision to mount the **HD camera** in one dome.

6. Existing Para 12:

Single Arm Pendant Comprising of –

- a. **1 x Arm 600mm having a**
- b. **1 x drop tube having a carrying capacity of max. load of 80 Kg.**
- c. Rotation of 330 deg.
- d. 1 x Basic console – 600mm
- e. 1 x fixed shelf (350 x 350 x 50 mm)
- f. 1 x adjustable shelf (350 x 350 x 50 mm)
- g. 8 x mains socket (5/15 Amp)
- h. 8 x medical gas terminal gas terminal & Hose assembly**
- a. (2 x Oxy, 2 x Vac, 1 x Air (4bar), 1x N2O)**
- i. AGSS Port 1 No. Data & A/V 2 Nos.
- j. Gas outlets should be European CE or UL Listed approved

Read as:

Double Arm Pendant Comprising of –

- a) **Double moveable arms (any combination) with total coverage of 1800mm +/- 10%. the arm height should remain to a height greater than 6.5 feet above floor level.**
- b) 1 x drop tube having a carrying capacity of max. load of 120 Kg.**
- c. Rotation of 330 deg.
- d. 1 x Basic console – 600mm
- e. 1 x fixed shelf (350 x 350 x 50 mm)
- f. 1 x adjustable shelf (350 x 350 x 50 mm)
- g. 8 x mains socket (5/15 Amp)

- h. 8 x medical gas terminal gas terminal & Hose assembly (2 x Oxy, 2 x Vac, 1 x Air (4bar), 1x N2O, 1 Air (7bar), 1 CO2). Provision for AGSS outlet & AGSS piping should be available in the pendant also. Inside OT medical gas pipeline should be done by the bidder for all the gases including AGSS and should be connected (or should be drawn till outside of OT, incase existing medical gas pipeline for any gas is not available) with existing medical gas pipeline available outside OT.**
- i. AGSS Port 1 No. Data & A/V 2 Nos.
- j. Gas outlets should be European CE or UL Listed approved**
- k. Manual/Electrical height adjustment of the pendant should be available.**
- l. The outlets should confirm to NFPA-99C/HTM-02-01/DIN/ISO/EN standards. Matching probe for outlets- 100% metal.

7. Existing Para 21b-

Bidder should supply, install and commission **15 KVA & 45 KVA** UPS in operation room.

Read as:

Bidder should supply, install and commission **20 KVA (8nos.)** UPS in operation rooms. For Ophthalmology Dept., the bidder should supply, install and commission **25 KVA- 1 no.** UPS in operation room.

8. Existing Para 21e-

UPS should be provided with bypass switch **and it should work in n+1 redundancy mode**

Read as:

UPS should be provided with bypass switch

9. Existing Para 22:

Medical grade isolation transformer of **15 KVA** capacity should be provided for every operation theatre which ensures the safety of staff and patient. System should have automatic fault monitoring & isolators provided through leakage relays etc. according to IEC recommendation. This unit should be EN/CE/UL/FDA/IEC certified. These systems are to be commissioned by specialists

Read as:

Medical grade isolation transformer of **20 KVA-8 nos. & 25 KVA-1 no** (for Ophthtalmology) capacity should be provided for every operation theatre which ensures the safety of staff and patient. System should have automatic fault monitoring & isolators provided through leakage relays etc. according to IEC recommendation. This unit should be EN/CE/UL/FDA/IEC certified. These systems are to be commissioned by specialists

10. Existing Para 23:-

AHU with condensing unit, with all necessary prefilters & filters, humidifier, dehumidifier, heater etc. complete in all respects for to maintain temperature & humidity as per standards in weather conditions at Nagpur. The CFM of AHU should be such that to maintain at least **30 air exchanges per hour**. The system should be capable to maintain temperature inside OT at 20 deg C in all weather conditions.

(Page no .56) AHU with condensing unit as per technical specifications

Read as:

AHU with condensing unit, with all necessary prefilters & filters, humidifier, dehumidifier, heater etc. complete in all respects for to maintain temperature & humidity as per standards in weather conditions at Nagpur. The CFM of AHU should be such that to maintain **atleast 20 air exchanges per hour**. The system should be capable to maintain temperature inside OT at 20 deg C in all weather conditions

Approximate Dimensions of the OR is as follows: for CFM calculation only
Ophthalmology, Plastic Surgery, Surgery (2 ORs), ENT – 24ft (L) x23ft (W) x12ft (H)
Causality: OR 1: 25ftx25ftx12ft
OR 2: 25ftx25ftx12ft
OBGY: OR1: 33ft(L)x18ft(W)x20ft(H)
OR2: 22ft(L)x18ft(W)x20ft(H)

11. Added Para:

SCRUB STATION

(Turnkey installation of scrub station including demolition of scrub area wherever required, replacement of damaged tiles, wires, pipe lines etc. during demolition, providing of electrical sockets with switches atleast 3 nos., all required civil, electrical, plumbing, mechanical works required for installation of scrub station)

- 1 Compact surgical scrub sink should be designed for use in OT complex providing for pre procedural scrub up. (Double sink/**four bay** scrub combination as suitable).
- 2 Each fixture should be fabricated from heavy gauge type 304 stainless steel (minimum thickness 1.5mm) and should be seamless welded construction, polished to a satin finish.
- 3 The scrub sink should be provided with a front access panel which should be easily removed for access to the water controlled valve, waste connections, stoppers and strainers.
- 4 Hands free operation should include infra red sensors with programmable adjustment.
- 5 Thermostatic mixing, valve control should be located behind the access panel and maintain constant water temperature.
- 6 Timing should be adjustable to meet individual application requirements.
- 7 Provided with infrared sensors, thermostatic control taps with fail safe temperature controls.
- 8 All units should have reduced anti- splash fronts.
- 9 Knee/foot operated switch should be provided additionally.

11. Added Para: (Turnkey Works)

1. Dismantling of Internal walls windows & doors (irrelevant to their size & number) of MOT wherever required for construction of OR according to approved layout, is the responsibility of the vendor.
2. Vendor had to dismantle the existing Air conditioning line if required (with due consultation with hospital authorities & PWD in case required for successful installation and commissioning of OR upgradation works)
3. The transport & disposal of scrap material (at a place suggested by hospital authorities) that arises due to dismantling of works mentioned above at 1 & 2 or any other scrap material arises during execution of job is responsibility of vendor.
4. All civil/electrical/mechanical/plumbing works etc. required for successful completion of the OR upgradation job is the responsibility of the vendor. Therefore, all prospective bidders are advised to visit GMC, Nagpur and inspect the existing ORs, for understanding of work requirement, to verify location of various existing facilities, to identify suitable location for equipment/facilities to be installed etc. and submit their quotations keeping in view of all necessary works.

5. All electrical cables should either run in conduits or on trays.
6. One point supply for each of electrical/drainage/water pipeline etc. required for the upgradation of ORs shall be provided by client upto OR corridor. It is the responsibility of the vendor to carry out rest of works required to connect to these to ORs.
7. Theatre control panel should have electrical sockets 5A/15A 10 nos.
8. Electrical sockets in pendant 10 nos. for all ORs
9. There is no requirement of OT light for Ophthalmology OR. Hence, in the laminar air flow opening given for OT light, vendor should put a CAP like device where the gap for OT light is provided to stop entering of dust etc.
10. There **electrical sockets 5A/15A** with switches to be installed in each wall of MOT. Location of outlets shall be according to approved drawing by the Institute.

11. PREFERRED MAKES

- A FLOORING VITRIFIED TILES -Somany, Kajaria ,H&R Johnson, RAK india
- B PAINT - Dulux, Asian Paints , Nerolac
- C PLUMBING - Kohler, Jaguar , Grohe , Roca
- D SANITARY ITEMS - CERA, Hindware, Parryware
- E ELECTRICAL
- 1 CABLES - Finolex, Havells ,V-Guard
- 2 SWITCHES - Legrand, L&T, Crabtree , Roma
- 3 DISTRIBUTION BOX , MCB - Legrand, L&T, Siemens, Havels
- 4 LIGHT FITTINGS - Philips / Crompton / Wipro/Havells
- F AIR CONDINTIONING - Daikin, Hitachi, Blue Star, Voltas,
- G FURNITURE - Hermen Miller, Godrej, Featherlite

12. **Added Para:**

Location for AHU Installation:

Bidder to Install AHUs (3 Nos.) for OT-C and OT-D, in the common corridor running between OT-C and OT-D. AHUs required for Gynaecology ORs Dept to be installed inside the OT complex itself (OT-G).

Bidder are required construct separate for installation of the AHUs required for other Dept. The room for AHU should be as follows:

Construction of rooms for AHU 10ftx10ftx 12ft height, with RCC flooring and RCC roof, complete with entry door 4ftx8ft, ventilation windows, lighting, electrical sockets 5/15A with switches, electrical wiring etc. All works to be done as per relevant IS standards

13. **Added Para:**

Air conditioning ducting for AHU to OT and inside OT ducting: Ducting should be of Aluminum with minimum 18G thickness complete with insulation, gaskets, support structure etc.

14. **Added Para:**

AGSS (Anaesthetic Gas Scavenging System) Plant –1000 LPM)

Duplex Anaesthetic Gas Scavenging System (AGSS) of 1000 l/min. should be European CE Certified or UL listed under Medical Devices Directive. It shall confirm to HTM 02-01/ NFPA 99 C/EN/DIN.

Duplex AGSS System with twin standalone AGSS pumps of 3phase 1000 l/min capacity each with built in flow indication and pressure regulation valve. It should be mounted on single frame with control panel and separate warning label. One pump working and one stand by and vice versa. The package should consist of two rotary vane vacuum pumps, a control panel, and mounted on a common base frame.

AGSS pump: AGSS pump shall operate completely dry permanently lubricated and sealed. Each pump should be completely air cooled and have absolutely no water requirements.

Control System: The duplex control system should conform to International Standards. The control system should provide automatic changeover from running to reserve with circuit breaker disconnects for each AGSS pump with external operators, full voltage motor starters with overload protection, control circuit transformers, visual and audible reserve unit alarm with isolated contacts for remote alarm. Should be in duplex format and must be chassis mounted ready for installation. Duplex system in-line non-return valves should allow individual pump servicing. Active anaesthetic gas scavenging systems should be designed to safely remove exhaled anaesthetic agents from the operating environment and dispose of them to atmosphere, thus preventing contamination of the operating department and providing a safe and healthy workspace for the personal. AGSS design should be dependent upon flow rate and pressure drop characteristics of the individual components of a systems, it is essential that terminal units, remote controls (If required) and pump units. AGSS Remote Control indicator (If required) should be provided for each OT with the system.

Installation should be on roof top. Piping, Non-Return-Valves (NRVs), and inlet nozzle should be suitably placed.

AGSS outlets should be provided in the pendant (this will be added in pendant outlet requirement)

Copper piping for AGSS: 400 R.mtr. (this will be added in BOQ)

Note:

The BOQ given in the tender technical specifications is revised and is as follows

Sl. No.	Name of the Item	Unit	Quantity
	Supply, Installation, Testing and Commissioning of all BOQ items		
1	EGP Wall panel as per technical specifications	Sq.mtr.	950
2	EGP Ceiling panel as per technical specifications	Sq.mtr.	360
3	Anti Microbial Painting as per technical specifications	Sq.mtr.	1310
4	Laminar Air Flow as per technical specifications	Nos.	9
5	PVC flooring as per technical specifications	Sq.mtr.	360
6	Self levelling sealing compound as per technical specifications	LS	9
7	Exhaust air cabinet & Return Air Grills as per technical specifications	Nos.	36
8	Hermetically sealed automated door 2.1x1.8 mtr. as per technical specifications	Nos.	9
9	Hermetically sealed automated door 2.1x1.0 mtr as per technical specifications	Nos.	9

10	Theatre control panel as per technical specifications	Nos.	9
11	Pressure Relief Dampers as per technical specifications	Nos.	9
12	Hatch box as per technical specifications	Nos.	9
13	Storage unit as per technical as per technical specifications (3 nos. required for Plastic Surgery ORs)	Nos.	11
14	Double Arm Pendant as per technical specifications	Nos.	9
15	X-ray view box as per technical specifications	Nos.	9
16	Writing list board as per technical specifications	Nos.	9
17	LED OT light as per technical specifications	Nos.	8
18	Peripheral lights as per technical specifications	Nos.	72
19	Distribution Box and Internal electrical wiring inside the OT and Provision for connecting to pendants as per technical specifications	Nos.	9
20	Medical Gas copper pipeline inside the OT and the Provision to connect to Pendant Systems as per technical specifications	Nos.	9
21	Inside OT AC ducting	LS	9
22	AHU with condensing unit as per technical specifications	Nos.	9
23	AC Ducting from AHU to OT as per technical specifications	R.mtr.	200
24	Cable trays for electrical and video	LS	9
25	20 KVA Isolation Transformer as per tender specifications	Nos.	8
26	25 KVA Isolation transformer as per tender specifications for Ophthalmology OR	Nos.	1
27	UPS 20 KVA with 30 min battery back up as per tender specifications	Nos.	8
28	UPS 25 KVA with 30 min battery backup as per tender specifications for Ophthalmology OR	Nos.	1
29	2 Bay scrub station	Nos.	5
30	4 bay scrub station	Nos.	2
31	Supply, Installation of drain pipe 5" including all fittings	R.mtr.	100
32	Dismantling of brick wall with tiles/without tiles	Cu.mtr.	15
33	Dismantling of window along with frame	Sq.mtr.	50
34	Dismantling of scrub area tiles (wall tiles, floor tiles)	Sq.mtr.	140
35	Dismantling of wooden door with frame	Sq.mtr.	60
36	Dismantling of False Ceiling and associated support structure	Sq.mtr.	100
37	Dismantling of POP ceiling	Sq.mtr.	80
38	Dismantling of existing air conditioning duct and support structure	Sq.mtr.	150

39	Construction of brick wall complete with plaster, primer paint, 2 coats of emulsion paint etc.	Cu.mtr.	60
40	Supply & fixing of verified tiles on walls & floor	Sq.mtr.	100
41	Supply & Installation of 4" drain pipe complete with all fittings required	R.mtr.	50
42	Construction of rooms for AHU 10ftx10ftx 12ft height with RCC flooring and RCC roof complete with entry door 4ftx8ft, ventilation windows, lighting, electrical sockets 5/15A with switches, electrical wiring etc. All works to be done as per IS standards	Nos.	2
43	Supply & Installation of suitable electrical cable (complete with suitable support structure for running the cable) required for AHU	R.mtr.	200
44	Supply & Installation of suitable electrical cable (complete with suitable support structure for running the cable) required for condensing unit of AHU	R.mtr.	200
45	Any other miscellaneous works (Demolition, Reconstruction, water proofing, repairing and replacement) for successful Installation & Commissioning of OR upgradation job	LS for 9 ORs	9 ORs
46	Supply & Installation of 6 Gas valves box with pressure gauges and without valves	Nos.	9
47	Supply & Installation of 15mm isolation valves (imported) required valve boxes	Nos.	45
48	Supply & Installation of 22 mm isolation valves (imported) required valve boxes	Nos.	9
49	Providing & fixing wood frame (second class teak wood) for Doors with all required finishing works	Cu.mtr.	0.3
50	Providing & fixing 35mm thick factory made laminated veneer lumber door shutter conforming to IS 14616 and TADS 15:2001 (Part B), including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws, with godrej locks, all complete as per directions of engineer-in charge and panelling with panels of 12 mm thick grade-I, medium density flat pressed three layered particle board FPT-I or graded wood particle board FPT-I, IS3087 marked, bonded with BWP type synthetic resin adhesive as per IS 848	Sq.mtr.	3

51	Supply & Installation of false ceiling acoustic tiles 600mmx600mm all works including support structure for false ceiling with provision of adequate no. of LED lights (LED lights to be flushed with false ceiling) to provide 500 lux illuminationelectrical wiring required for lights	Sq.mtr.	30
52	Duplex AGSS System as per tender specification	Nos.	01
53	Copper pipes for AGSS Sytem	R.Mtr	400

Note: **Unit price and total price should be given each BOQ item.**

All other terms and conditions of the tender enquiry remain unaltered.