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Projects Division  
Corporate Head Office, Poojappura.P.O,  
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**INVITATION FOR BIDS (IFB) – AMENDMENT NO: 2**

Sub: Amendment no.2 Civil and Electrical Works (renovation) for setting up of Audiometry Rooms at DISTRICT HOSPITAL - PANIPAT in Haryana

Ref: IFB Ref NO. HLL/CHO/PROJ/HCD/HARYANA-AUD/PANIPAT/C&E/2017-18 dated 01-06-2018

**Amendment Date: 22-06-2018**

With reference to the above, please find the following amendments:

1. The scheduled date for issue, receipt and opening of bids is hereby amended as follows.
  - a) Date of issue of tender document - 01-06-2018 onwards
  - b) Last date and time for receipt of bids - 07-07-2018 up to 15.00 Hrs.**
  - c) Date and time of opening of bids - 07-07-2018, 15.30 Hrs.**
  
2. **Schedule V:** Schedule of Work is Amended as **Schedule V - Amended-2** and is enclosed.

All other terms and conditions of the tender remain unchanged.

**SENIOR MANAGER (PROJECTS)**

<b>SCHEDULE V- AMENDED - 2</b>					
<b>SCHEDULE OF WORK - PANIPAT</b>					
<b>SL.No</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>RATE</b>	<b>AMOUNT</b>
<b>CIVIL WORKS</b>					
<b>CEMENT CONCRETE</b>					
1	Cement concrete 1:5:10 (1 cement ,5 sand , 10 hard blue granite stone metal 40mm and down gauge) laid in layers not exceeding 15cm each in depth and well consolidated in foundation/levelling course including necessary shuttering , in steps, in floors, etc . all complete as directed.	0.00	M.CUBE		
2	Cement concrete 1:4:8 (1 cement ,4 sand , 8 hard blue granite stone metal 40mm and down gauge) in layers not exceeding 15 cms in depth well consolidated in foundation and levelling course under floors including necessary shuttering, in steps etc all complete as directed.	1.00	M.CUBE		
<b>MASONRY WORK</b>					
3	Brickwork of locally available best quality table moulded bricks of not less than 50kg/sq.cm crushing strength in cement mortar 1:5 (1 cement,5 sand) in foundation and plinth. No extra payment will be paid for any shape or size,turnings, fins, etc unless otherwise specified seperately.	0.00	M.CUBE		
4	Half brickwork with locally available best quality table moulded bricks of not less than 50kg/sq.cm crushing strength in CM 1:3 (1 cement 3 sand ) and reinforced with two numbers of 6mm dia. M.S rods at every fourth course embedded in cement mortar 1:4 for partitions.				
	In Ground Floor	6.00	M.SQ		
<b>FLOORING</b>					
5	Providing and fixing 1st quality ceramic glazed floor tiles conforming to IS : 15622 (thickness to be specified by the manufacturer ) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	19.00	M.SQ		
6	Providing and laying 600mm x 600mm or required size from Kajaria/ Restile/Johnson glazed tiles of plain series(Satin finish) in dado set in CM 1:3 with joints so as to form a true & even surface and joints finished neatly with white cement mixed with matching pigments all complete as directed. (Rate should include base plastering with CM 1:5 of required thickness.)  The rate shall include cost of providing 6mmx6mm groove in the plastering at top of the tile all complete as directed.(Basic cost of tile - Rs.85/sft).Any difference in basic price and OHP at the time of approval shall be adjusted for the laid area.No extra shall be payable for forming any pattern like border, etc.	0.00	M.SQ		
7	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. Granite of any colour and shade. Area of slab over 0.50 sqm	0.00	M.SQ		
<b>PLASTERING</b>					
8	Prepare surfaces and plaster with CM 1:3(1 cement, 3 sand) ,12mm minimum thick (sponge finish) to ceiling sides and soffit of beams and columns and other interior and exterior RCC surfaces not contiguous to masonry.	12.00	M.SQ		
9	Prepare surfaces and plaster with CM 1:5(1 cement, 5 sand) ,12mm minimum thick to all interior faces of walls (sponge finish) including RCC surfaces not contiguous to masonry.Necessary internal grooves of size 10mmx10mm shall be carried out as shown/directed by engineer-in-charge.	0.00	M.SQ		
<b>PAINTING</b>					
10	Prepare surfaces and paint two coats of plastic emulsion paint of approved colour over two coats of Gypsum punning of 6 mm minimum thick and primer all complete as per manufacturers specifications to all ceilings in all floors.	0.00	M.SQ		
11	Finishing with oil bound washable Interior Emulsion of approved brand and manufacture to give an even shade : New work (two or more coats) over and including water thinnable priming coat with cement primer	36.00	M.SQ		

**SCHEDULE V- AMENDED - 2**

**SCHEDULE OF WORK - PANIPAT**

SL.No	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
12	Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/10 sqm of approved brand and manufacture	12.00	M.SQ		
13	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/ 10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand and manufacture	9.00	M.SQ		
14	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	36.00	M.SQ		
15	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	0.00	M.SQ		
16	Finishing with Deluxe Multi surface paint system for exteriors using Primer as per manufacturers specifications : Two or more coats applied on walls @ 1.25 ltr/10 sqm	0.00	M.SQ		
<b>DISMANTLING</b>					
17	Dismantling plastered brickwalls in cement mortar including cleaning, stacking the useful materials as directed by engineer-in-charge and dumping the dismantled debris as indicated at site, levelling, consolidating, all complete as directed and disposing the debris away from site all complete as directed.	2.00	M.CUBE		
18	Dismantling the existing RCC concrete including cutting the reinforcement, stacking the useful materials as directed by engineer-in-charge, dumping the dismantled debris as indicated at site, leveling, consolidating, all complete as directed and disposal of debris away from site all complete.	1.00	M.CUBE		
19	Dismantling Aluminium partition including disposing the debris away from site as directed by engineer in charge all complete.	36.00	SQM		
20	Dismantling of flushing cistern of all types (C.I./PVC/Vitrious China) including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.	2.00	EACH		
21	Dismantling Tile Flooring and Walls and disposing the debris away from site all complete as directed.	36.00	M.SQ		
<b>FALSE CEILING &amp; CLADDING</b>					
22	Designing, fabricating, testing, installing and fixing in position Curtain Wall with Aluminium Composite Panel Cladding, with open grooves for linear as well as curvilinear portions of the building , for all heights and all levels etc. including: Structural analysis & design and preparation of shop drawings for pressure equalisation or rain screen principle as required, proper drainage of water to make it watertight including checking of all the structural and functional design. Providing, fabricating and supplying and fixing panels of aluminium composite panel cladding in pan shape in metallic colour of approved shades made out of 4mm thick aluminium composite panel material consisting of 3mm thick FR grade mineral core sandwiched between two Aluminium sheets (each 0.5mm thick). The aluminium composite panel cladding sheet shall be coil coated, with Kynar 500 based PVDF / Lumiflon based fluoropolymer resin coating of approved colour and shade on face # 1 and polymer (Service) coating on face # 2 as specified using stainless steel screws, nuts, bolts, washers, cleats, weather silicone sealant, backer rods etc. The fastening brackets of Aluminium alloy 6005 T5 / MS with Hot Dip Galvanised with serrations and serrated washers to arrest the wind load movement, fasteners, SS 316 Pins and anchor bolts of approved make in SS 316, Nylon separators to prevent bi-metallic contacts all complete required to perform as per specification and drawing The item includes cost of all material & labour component, the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled working curtain wall with aluminium composite panel cladding, cleaning and protection of the curtain wall with aluminium composite panel cladding till the handing over of the building for occupation. Base frame work for ACP cladding is payable under the relevant aluminium item.s The Contractor shall provide curtain wall with aluminium composite panel cladding, having all the performance characteristics all complete , as per the Architectural drawings, as per item description, as specified.	0.00	M.SQ		

**SCHEDULE V- AMENDED - 2**

**SCHEDULE OF WORK - PANIPAT**

SL.No	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
23	Providing & fixing 35mm Flush doors 1.0 mm thk laminate as per design. The item includes Providing and fixing chaukhats made from 100mm x 50mm teak wood members. The Doors to have all hardware such as 125mm SS hinges, 450 mm long SS handles, SS tower bolts, Mortice Locks (Dorma/ Godrej). The item also includes SS rods 6mmx6mm inserted in grooves as per details complete to the satisfaction of Architects / HLL. Size of Door: 1000 x2100mm Including chaukhats.	5.00	M.SQ		
24	Providing and Fixing Acoustic tiles of 15 mm thickness and tegular edge, easily demountable tile, manufactured from High density glass wool, with the visible surface batch painted glass tissue in white and the back of the tile should be covered with glass tissue. The glass wool core of the tiles should be tested and classified as noncombustible according to prEN ISO 1182. The system should have Sound Absorption NRC value of 0.9 (according to ASTM C 423). Tiles should withstand a permanent ambient RH Upto 95% at 30°C without sagging, warping or delaminating (ISO 4611). The light reflectance of the tiles should not be less than 83%. Tiles certified by the indoor climate labeling and recommended by Swedish asthma and allergy association and granted Nordic Swan eco-label and fully recyclable. The glass wool core of the tiles should be tested and classified as non combustibile according to EN ISO 1182 and the ceilings should fall under Class A2 -s1 d0 according to EN 13501- 1.	19	M.SQ		
25	101mm thick Gypsteel Ultra™ stud partition including one layer of tapered edge 13mm thick Gyproc Duraline Board and another layer of 12.5mm thick Gypboard® Plain (conforming to IS:2095 – 1996-Part-I)- screw fixed with drywall screws of 25mm & 35mm at 300mm centres to either side of 48mm Gypsteel Ultra™C stud (0.5mm thick having one flange of 34mm and another flange of 36mm made of GI Steel) placed at 610mm c/c in 50mm Gypsteel Ultra™ floor and ceiling channel (0.5mm thick have equal flanges of 32mm made of GI steel) anchored to the floor & true ceiling using suitable anchor fasteners or metal screws with Pvc plugs. The boards are to be fixed to the framework with joints staggered to avoid leakage through joints .A Gypsteel Ultra Noggin Channel of 48mm width (0.5mm thick have equal flanges of 40mm each) has to be provided at the horizontal joints of two boards screw fixed to the stud using Gyproc Metal to Metal flat head screw. Finally square and tapered edges of the boards are to be jointed and finished so as to have a flush look which includes filling and finishing with Gyproc Jointing compound, Gyproc Joint Paper tape and two coats of Drywall Top Coat (as per recommended practices of Saint- Gobain Gyproc India). As an acoustic requirement, contractor to affix 2mm thick mass vinyl loaded sheet of Density (Mg/m)1.70 with Minimum STC 26 / Rw 26 dB and 25mm thick glass wool of density 24kg/m3 blanket wrapped in RP tissue suitably affixed to partition framework using where necessary GI binding wire, duct tape as indicated in the drg Bottom-line or equivalent. Rate to include making provisions in panels, grooves and finishing the same to fix soft board (0.45x1.8m) and whiteboard (1.2mx3.2m) fixed flush on the partition. The system should have Sound Absorption NRC value of 0.9 (according to ASTM C 423). Rate also to include making openings for glass panels, ducts, services and doors by providing concealed frames on all sides, framework above false ceiling and any other provisions reqd. to facilitate the same, all hardware etc. all complete. Rate to include finishing with 2 or more coats of Dulux 3-in-1 plastic	76	M.SQ		
26	Providing and Fixing Wooden false Ceiling comprising of a Galvanized MS frame as required covered with 12 mm thick Marine ply, followed by 6 mm premium quality MDF for making groove and finished with a natural veneer (as approved) of 3.5 mm thickness duly Spirit polished with melamine matt coating. The ceiling shall be fixed to the roof soffit with adequate suspenders. The item shall be inclusive of cutting & making cutouts for lights, diffusers etc all complete. (veneer with basic cost Upto Rs:100 per sft FOR site)	0	M.SQ		
<b>Sub total Civil Works</b>					
<b>ELECTRICAL WORKS</b>					
1	<b>Point wiring in PVC conduit with modular type switch.</b>				
	Wiring for light point/fan point/exhaust fan point /call bell point with 1.5 sq mm FR PVC insulated copper conductor single core cable in surface/recessed medium class PVC conduit, with modular switch, modular plate, suitable PVC box and earthing the point with 1.5 sq.mm FR PVC insulated copper conductor single core cable etc as required.				
	Group C	4	Point		

**SCHEDULE V- AMENDED - 2**

**SCHEDULE OF WORK - PANIPAT**

SL.No	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
2	<b>Wiring through PVC conduit</b>				
	Wiring for circuit/submain wiring along with earth wire with the following sizes of FR PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required.(Make:Havells/Finolex/V-guard/Polycab)				
a	2X1.5 sq.mm + 1X1.5 sq.mm earth wire	15	Metre		
b	2X2.5 sq.mm + 1 X2.5 sq mm earth wire	15	Metre		
c	2X4 sq.mm + 1X4 sq.mm earth wire	0	Metre		
2.1	<b>Telephone wiring in existing conduit:</b>				
	Supplying and drawing following pair 0.5 sq mm FR PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.				
a	2 Pair	0	Metre		
3	<b>A/C point</b>				
	<b>S/F 20A SPN MCB industrial socket outlet:</b> Supplying and fixing 20 amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 20 amps "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.(Make: Legrand/Havells/HPL)	1	Point		
4	<b>Modular type blanking plate:</b>				
	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.(Make: Legrand/Havells/HPL)	1	Each		
5	<b>Modular boxes, bases &amp; cover plate:</b>				
	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.(Make: Legrand/Havells/HPL)				
a	2 module	0	Each		
b	3 module	3	Each		
c	4 module	1	Each		
e	6 module	4	Each		
6	<b>Modular type switch/socket:</b>				
	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. (Make: Legrand/Havells/HPL)				
a	5/6 Amps switch	8	Each		
b	3 pin 5/6 Amp socket outlet	8	Each		
c	15/16 Amps switch	3	Each		
d	6pin 15/16 Amps (universal) socket outlet	3	Each		
e	Telephone socket outlet	0	Each		
7	<b>S/F PVC conduit:</b>				
	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.(ISI Make)				
a	20 mm	16	Metre		
b	25 mm	15	Metre		
8	<b>ITC Fluorescent fitting directly on surface:</b>				
	Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting/LED of all types, complete with all accessories and tube etc. directly on ceiling/ wall, including connection with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable and earthing etc. as required.	4	Each		
9	<b>ITC Ceiling fan:</b>				
	Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable etc. as required.	0	Each		
10	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	0	Each		

**SCHEDULE V- AMENDED - 2**

**SCHEDULE OF WORK - PANIPAT**

SL.No	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
11	<b>CABLE SUPPLY, LAYING AND TERMINATION</b>				
	Wiring for circuit/ submain wiring along with earth wire with the following sizes of FR PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.				
a	From Main to DB				
	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	15	Metre		
12	Supply of 10W LED fittings with decorative end cap, powder coated CRCA steel channel complete with all electrical accessories like electronic ballast, lamp holder, 10W lamp etc complete as required. <b>(Havells LHEWEBP7IN1W010/</b>	4	Each		
12.1	Supply and installation of 18 W CFL with its all accessories.	0	Each		
13	Supply and installation of 1200 mm sweep Ceiling fan, white colour, 5 star rated as per BEE complete with blades, down rod, shackle, canopy etc <b>(Make Havells/bajaj/usha/V-guard/Crompton)</b>	0	Each		
13.1	Supply and installation wall fan, white colour, 5 star rated as per BEE complete with its all accessories <b>(Make Havells/bajaj/usha/V-guard)</b>	0	Each		
14	<b>S/F SP &amp; N DB:</b>				
	Supplying and fixing following way prewired SP&N MCB, distribution board of steel sheet for 240 volts on surface/recess complete with loose wire box, terminal connectors for all incoming and outgoing circuits, duly prewired with suitable size FR PVC insulated copper conductor up to terminal blocks, tinned copper bus bar, neutral link, earth bar, detachable gland plate, interconnections, powder painted including earthing etc.as required(But without MCB/RCCB/Isolator) <b>(Make: Legrand/Havells/HPL)</b>				
	4 way SPN, double door	1	Each		
	6 way SPN, double door	0	Each		
14.1	<b>S/F of DP ISOLATOR</b>				
	Supplying and fixing following rating, double pole, (single phase and neutral), 240 volts, ISOLATOR having a sensitivity current upto 100 to 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc, as required. <b>(Make: Legrand/Havells/HPL)</b>				
	40A, DP isolator	1	Each		
	32A, DP Isolator	0	Each		
14.2	<b>S/F of SP MCB</b>				
	Supplying and fixing 6 amps to 10 amps rating, 240 Volts, "C" series, miniature circuit breaker suitable for lighting and other loads of following poles in the existing MCB DB complete with connections, testing and commissioning etc as required. <b>(Make: Legrand/Havells/HPL)</b>				
	6/10A SP MCB	3	Each		
15	<b>Miscellaneous Items</b>				
15.1	Miscellaneous electrical work, removing of existing conduits and interconnections of light,6A socket/16A socket/A/C point from existng DB	0	LS		
15.2	Miscellaneous work for supply and fixing of 1-tube light &1- 3 star rated ceiling fan with its all accessories only as per the direction of engineer in charge.[ISI MAKE]	0	Ls		
16	Air Conditioner Supply, installation & Commissioning of 1.5 ton capacity split type air conditioner (3 star rating ) - Voltas / LG / Carrier / Blue star with suitable stabiliser ( V-Guard / Everest / Voltas / Microteck), Out Door unit stand , 4mtr draining pipe.necessery copper piping .1 Year warranty for AC & Stabilizer 5 Years warranty for compressor , Bidder should mention the make and model of the Air Conditioner and stabilizer	1	No.		
	<b>Sub Total Electrical</b>				
	<b>Grand Total Civil and Electrical</b>				
	<b>GST @ 18%</b>				
	<b>GRAND TOTAL AMOUNT (Including GST @ 18%)</b>				

I agree to complete the work as per the schedule at the rates quoted by me as above.

**BIDDER**