

HLL LIFECARE LIMITED
(A Government of India Enterprise)
Internal Projects,
Central Engineering Division,
Peroorkada. P.O, Thiruvananthapuram – 695005,
Kerala, India
Phn: 0471 – 2437270, 2433374

AMENDMENT NO 1
INVITATION FOR BIDS (IFB)

Sub: Amendment No.1 - Supply, Installation, Testing and Commissioning of HT Electrification work of HLL Diagnostic & Polyclinic Facility at TRIDA Complex, Near Medical College Hospital, Thiruvananthapuram – reg.

Ref: IFB Ref No. HLL/CED-IP/DF&PC/ELECTRICAL/2015 dtd 10-12-2015

Amendment Date: 24-12-2015

With reference to the above mentioned tender, Schedule VII – Schedule of Quantities is hereby amended and enclosed as Schedule VII – Schedule of Quantities (Amended)

All other terms and conditions of the tender remain unchanged.

SENIOR MANAGER (INTERNAL PROJECTS)

SCHEDULE VII					
SCHEDULE OF QUANTITIES - AMENDED					
Sub:	Supply, Installation, Testing and Commissioning of HT Electrification work of HLL Diagnostic & Polyclinic Facility at TRIDA Complex, Near Medical College Hospital, Thiruvananthapuram - reg.				
Sl. No	Description	Unit	Qty	Rate in Rs	Amount in Rs
1	Supply ,installation ,testing and commissioning of 315 KVA UNITISED SUBSTATION comprising 315 KVA Copper wound 11KV /433 V Dry type cast resin type Transformer . 3 Phase ,vector DYN -11 with off load tappings from +5% to -10 % in steps of 2.5%,operatable on offcircuit by tap links provided, with HV Terminals connecting to HT 11KV, 35KA 630 A 50 HZ VCB with two nos epoxy resin cast CT 30/5 A,CL- 0.5, 15VA burden,and 1 No epoxy resin cast PT 11KV/110 V , CL- O.5,100VA burden with shunt trip coil ,(230 V AC-) LED type. on-off indication, Space heater with thermostat -1 set, Incoming cable entry suitable for 3X150 sqmm XLPE cable. with provision for fixing TOD meter with glass cover in front of the meter test terminal box etc. complete (CT,PT, TOD Meter , chamber shall have suitable sealing facility.LV cable box suitable for two runs of 3.5X150 sq.mm XLPE Cable with winding temp. indicator and all other standard fittings and accessories conforming to IS:2026/77 & IS : 11171/85 .Etc. complete. Recommended Makes: KEL/Tesla/Unipower/Voltamp/Intrans	No	1		
2	Supply, installation, testing and commissioning of a neutral CT of ratio 75/5A, CL: 5P10,15VA in a suitable metallic sheet steel enclosure in the transformer neutral for low set E/F protection, control cabling to the E/F relay including termination etc. complete	Set	1		
3	Supply and laying 3X150 Sqmm Aluminium conductor XLPE insulated PVC sheathed ,armoured 11 KV HT Cable conforming to IS specificationl to 315 KVA Unitised substation Through cable trench of 1m depth laid over sand bed and covered with bricks etc. as per standards. OR thru existing cable trench	Mtrs	180		
4	Supply and providing HT cable termination with heat shrinkable end termination set for 3x150 Sqmm XLPE- HT Cable.				
	a) Outdoor type	Nos	1		
	b) Indoor type	Nos	1		
5	Supply Installation ,testing&commissioning of HT -TOD Meter for the above	Nos	1		
6	Testing charges for CT,PT, TOD Meter etc.	LS	1		
7	Supply of Aluminium conductor XLPE insulated armoured cables of following sizes				
	a) 3 1/2 C X300 Sqmm	Mtrs	100		
	b) 3 1/2 CX 240 Sqmm	Mtrs	150		
	c) 3 1/2 CX 185 Sqmm	Mtrs	100		
	d) 3 1/2 CX120 Sqmm	Mtrs	100		
	e) 3 CX 25 Sq mm	Mtrs	100		
8	Laying of the following size of cables thru cable trench/underground /cable rack as per standards as per the instruction of engineer in charge				
	a) 3 1/2 C X300 Sqmm.l	Mtrs	100		
	b) 3 1/2 CX240 Sqmm	Mtrs	150		
	c) 3 1/2 CX185 Sqmm	Mtrs	100		
	c) 3 1/2 CX120 Sqmm	Mtrs	100		
	d) 3 CX 25 Sq mm	Mtrs	100		
9	Supply and providing cable glands & end termination, gland Earthing etc.for following cable sizes				
	a) 3 1/2 C X300 Sqmm	Nos	8		
	b) 3 1/2 CX185 Sqmm	Nos	8		
	c) 3 1/2 CX240 Sqmm	Nos	8		
	c) 3 1/2 CX120 Sqmm	Nos	8		
	d) 3 CX 25 Sq mm	Nos	8		

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Sl. No	Description	Unit	Qty	Rate in Rs	Amount in Rs
10	Supply and laying Copper strip for Earthing				
	a) 32 X 6 MM	Mtrs	20		
	b) 25 X 3 MM	Mtrs	160		
	c) No. 8 SWG Bare copper wire	Mtrs	100		
11	Supply and providing standard plate earthing devices 1200 X1200 X 12 mm Cast iron plate set with 38 mm GI Watering pipe etc. ,Constructing earth pits with brick work and supplying & installing CI Earth pit cover with mounting frame etc. as per IS 3043/66	Nos	8		
12	Supply fabricate and erect cable support rack/ tray using MS Angle and flat and applying a coat of metal primer and two coats of enamel paint	Kgm	800		
13	Supply fabricate and erect 6 mm Chequered plate as per instruction	Sq mtr	20		
14	Supply and providing HT Danger board	Nos	2		
15	Supply and providing LT Danger board	Nos	4		
16	Supply and providing HT Rubber glouse	Set	2		
17	Supply and providing fire bucket -3 Nos with stand	Set	1		
18	Supply and providing 12 mm Thick Rubber mat (electrical grade)-2m X 1m size	Nos	2		
19	Supply and providing 5Kg dcp type Fire extinguisher	Nos	2		
20	Supply and providing neatly framed schematic lay out as per requirement	Set	2		
21	Supply all materials ,Designing ,fabricating,transporting ,erecting testing and commissioning of following cubicle type fully compartmentalised ,free standing switch boards ,dust and vermin proof ,Fabricated out of 14/16 Gauge CRCA Sheet and painted with two coats of anti corrosive Primer & Powder coated with approved color . The switch boards should be fabricated as per electrical inspectorate standards.Should conform to IS ,/BIS standards. Suitable size of Aluminium busbars sleeved and supported by DMC/ SMC. Insulators-				
	a) MSB-1 - Incomer side --LT Side of Txr				
	800 A 4Pole ACB with 2Nos. Over current and 1No. Earth fault release with shunt trip coil ,type -CDG- 11, Generator side -800A 4-Pole ACB with interlock system for both ACBs. Out going side : 400A TP MCCB -35 KA -1 NO ,300 A TP MCCB -35 KA -3 Nos. 125 A TP MCCB -35 KA -4 Nos. MC -12 -Earth fault relay -1No. Voltmeter -0-600V, Ammeter -0-600A -3 -Nos.Pilot lamps (LED type)-2 -SETS. CT class 0.5VA 600/5A - 4 Nos. Feederwise Energy meter - 8 N os. CT -Class-0.5VA.-250/5A - 12 Nos., 150/ 5A -12 Nos. Suitable size Aluminium Busbars sleeved -as per standards- RYB N- 4 Nos.	NO	1		
	b) Sub Switch Board -1 No.				
	Incomer- 400 A TP MCCB -1 NO Outgoing -300 A TP MCCB -25 KA - 1 NOS., 125A TP MCCB -25 KA- 3 NOS,and 100 A TP MCCB-25-KA-2 Nos. 125 A TP MCCB -25-KA SPARE - 2 Nos 500 V Volt meter &, Ammeter with selector switch pilot lamp set RYB -1 set with suitable size aluminium busbars -4nos. Sleeved Supported by DMC/ SMC Support insulators. MCCB Microprocessor type	Nos	1		

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Sl. No	Description	Unit	Qty	Rate in Rs	Amount in Rs
22	Supply and Installation of 300mm sweep 950rpm suitable for 230V, 1 phase a/c supply Crompton/Bajaj or equivalent make exhaust fan for wash/toilets	each	15		
23	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 volts, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 amps tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCB's as required with MCB/RCCB/Isolator and ELCB (adjustable type). 16 Way(8+24), Double door(PDB), Havells/Legrand/ABB or equivalent	set	10		
24	Supplying and fixing TP sheet steel enclosure on surface/ recess along with 63/100/250 amps 415 volts "C" curve TP MCB complete with connections, testing and commissioning etc. as required for MV cables/Cable Trays/Bus bars	set	5		
25	Supply and Laying of XLPE insulated XLPE sheathed steel armored / unarmored, Aluminium / Copper conductor cable 1.1KV class cable 'as per IS1554 Part-I. The cable shall be laid on existing cable tray using clamps nuts, bolts etc. as required as per the best engineering practices.(Including Termination)				
	Al. Conductor.Armoured XLPE insulated Cables				
	a 4C x 25 sq. mm Ar. Al. XLPE cable (DB) approx	Mtrs	300		
	b 4C x 16 sq. mm Ar. Al. XLPE cable (UDB)	Mtrs	200		
26	MultistrandCu.Conductor. Flexible FRLS PVC insulated Cables with termination, Finolex or equivalent				
	a 3C x 2.5 sqmm flexible PVC Cable	Mtrs	800		
27	LIGHTING /POWER OUTLETS. Light Point Wiring. 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 GI box and earthing the point with 1.5 sq.mm. FR PVC insulated copper conductor single core cable etc as required.				
	a 1 light points controlled by 6A modular type SP switch	pts	40		
	b 2 light points controlled by 6A modular type SP switch	pts	40		
28	Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required (including chipping, cutting and finishing, making good the surface).				
	a 2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	mtrs	900		
	b 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	mtrs	700		
	c 2 X 4 sq. mm + 1 X 4 sq. mm earth wire	mtrs	300		
29	POWER OUTLETS				
	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required.	Nos	200		
30	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16amps modular switch, connection etc. as required.	Nos	150		

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Sl. No	Description	Unit	Qty	Rate in Rs	Amount in Rs
31	Supplying and 15/16 amps modular socket outlet and 15/16amps modular switch, connection etc for A.C provision as required.	Nos	30		
32	Supplying and installation 125 amps Industrial socket outlet 415 V Preferred Make(L&T)	no	1		
33	Supplying and installation 100 amps Industrial socket outlet 415 V , Preferred Make(L&T)	no	1		
34	EARTHING SYSTEM				
	Earthing with G.I. earth pipe 3.5 meter long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required (As per IS3043/87)	set	2		
35	EARTH STRIPS				
	Providing and fixing No10 Copper wire on surface or in recess for loop earthing along with existing surface/ recessed conduit/ sub main wiring/ .cable as required	Mtrs	200		
36	Light fixtures/ Fans/Ex Fans/ Miscellaneous				
	Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent/LED fitting 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.(Excluding rate of fixtures)	Nos	200		
37	Supply of Following Light fixtures				
	a) 28W LED Fitting suitable to 1x28 W FTL MO Fitting, (Make: Wipro/Philips or equivalent)	Nos	100		
	b) 12W LED Fitting suitable (Make: Wipro/Philips or equivalent)	Nos	100		
38	Supply & installation of indoor type recessed mounting mirror optic luminaries suitable for 2x18W CFL lamp complete with all accessories and lamp of Make: Wipro/Philips or equivalent (false ceiling mounted) as per the direction of Engineer in charge	Nos	90		
39	Supplying and fixing following size/ modules, GI box along with modular base & cover plate for modular switches in recess etc as required.1 or 2 Module (75mmX75mm).	Nos	50		
40	Supplying and fixing of modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. Havells/L&T or equivalent	Nos	50		
41	Telephone Socket outlet Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. 50/20 pair in main cable and 5 pair in sockets	Nos	75		
42	DATA Socket Supply and Laying Cat-6 Networking cable in medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit	Mtrs	800		

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Sl. No	Description	Unit	Qty	Rate in Rs	Amount in Rs
43	Supply and Laying following pair 0.5 sq mm FR PVC insulated annealed copper conductor, unarmored telephone cable in medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit. Accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit.	Mtrs	600		
44	Capacitor Panel - APFC	No	1		
	<p>Fabrication, supply, installation, testing and commissioning of 500V, 100 kvar automatic Capacitor Panel dust tight vermin proof, wall mounted, cubicle construction with the following:-</p> <p><u>Incoming</u></p> <p>250 A TPN MCCB - 1no</p> <p>(Bus bar of air insulated Aluminum size as per ISS)</p> <p><u>Outgoing</u></p> <p>200 A/3 TP MCCB -3 , 100 A/3 TP MCCB, 25kA (lcs), current limiting type with adjustable thermal magnetic release -3 nos ,63 A/3 TP MCCB -3Nos</p> <p>Capacitor duty double contactor suitable for capacitor switching with 20,20,20,10,10,10, 5KVAR APP+PCB free Heavy duty capacitors in 8 outgoing prewired with control circuits to improve the P.F automatically with Microprocessor based automatic power factor control relay at the desired value with a power factor meter in the incoming side. Digital ammeter (0-150A), Digital voltmeter (0-500V), HRC fuse, LED type phase indication lamps selector switches etc. in the incoming. Copper earth bus of adequate capacity and double earth connection to all switches, internal rigid connection. The board shall be fabricated out of 16 SWG CR sheet and painted with shade RAL 7032 after phosphating.</p>				
45	Preparation of all drawings ,submit to Central/State power authority /Electrical Inspectorate for getting approval and sanction ,(All statutory fees shall be borne by HLL)	LS	1		
46	Additional electrical work for dismantling existing LT Supply panel metering panel,cables,glands etc as required complete as per direction of engineer in charge	LS	1		
TOTAL AMOUNT IN RS					
TAXES, AS APPLICABLE					
GRAND TOTAL IN RS					
(IN WORDS)					
I hereby agree to execute the works above at the rates quoted by me as above .					
CONTRACTOR					