

# **TENDER DOCUMENT**

*FOR*

**Tender Document for power supply connection to staff quarters of  
Type-II, Type-IV and Type-V, JIPMER,Puducherry.**

**PART-III  
PRICE BID**

**TENDER NO. HLL/IDS/16/25/ Power supply-SQ/JIPMER  
dated: 28.12.2016**

**HLL LIFECARE LIMITED**

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## **1. COMMERCIAL CONDITIONS**

- 1.1 The tendered rate shall inter alia be deemed to include for the provision of all materials, process, operation and special requirements detailed in the particular specification irrespective of whether these are mentioned in the description of equipment schedule and Bill of quantities or not. It is an express condition of the contract that the tendered rates for various items in the Bill of Quantities shall be deemed to include for the full, entire and final condition of the contractor respective items of the works in accordance with the provision of the contract.
- 1.2 The tendered rate shall include for all taxes, duties, etc. as applicable and shall be quoted on the works contract basis for the work- power supply connection to staff quarters of Type-II, Type-IV and Type-V, JIPMER, Puducherry.
- 1.3 The tendered rate shall remain firm and free from variation due to rise in the cost of materials/equipment labour or any other reasons whatsoever during the contract period and valid extension.
- 1.4 The quantum of excise duty included in the tendered price, the rate at which they were assumed etc. shall be indicated in the tender.

## **2. UNIT RATES**

- 2.1 Only approved work will be measured on completion and priced as per rates quoted against the respective items.

## **3. BRIEF DESCRIPTION OF PRICING**

- 3.1 The tenderer shall furnish duly certified breakup of material and labour separately for each item of work. The same shall be attached separately along with the price bid.

## **4. PRO-RATA VALUE**

The detailed break up of prices for various items of equipments and materials of the full system should be provided by successful tenderers within fifteen days from the date of letter of intent to facilitate the Employer for assessment and verification and to certify payment.

## **5. INCOME TAX**

Any payment to the contractor as per contract, will be made after deducting income tax as per the rules and regulations.

## **6. SALES TAX AND EXCISE DUTY**

The tenderer shall clearly indicate sales tax, Excise and works contract tax and other duties as applicable in his offer for carrying out this work.

The quoted price shall be inclusive of all taxes and duties whether payable by the contractor or to be deducted at source. This shall include those applicable among VAT, Sales Tax, Income Tax, Customs Duty, Excise Duty, Turnover Tax, Service Tax, Work Contract Tax, Octroi, Labour Welfare Cess or any Other Taxes and Duties prevailing in respect of this contract. ANY BID STATING THAT TAXES ARE EXTRA WILL BE SUMMARILY REJECTED.

## **7. SUBMISSION OF BILL**

- 7.1 The contractor shall from time to time prepare and submit interim bills of the work executed and on completion of the contract, he shall prepare and submit the final bill. The measurements sheets in support of the interim and final bills shall be prepared by the contractor on the basis of measurements taken by him jointly with the project engineer and the said measurement sheets shall be submitted by him with the relevant bill.

## **8. EXTRA ITEMS**

The contractor is bound to carry out any items of work necessary for the completion of the job even though such items may not have been included in the schedule of probable quantities or rates, such items being necessary or essential for completing the job. Variation order in respect of such additional items and their quantities will be issued in writing by the Employer.

All shavings, cuttings and other rubbish as it accumulates from time to time during the progress of work and on completion including that of the sub-contractors and special tradesman and all materials condemned by the project engineer shall be cleared and removed from the site by the contractor without any extra charge.

All measuring steel taps, scaffolding, ladders instruments and tools that may be required for taking measurements shall be supplied by the contractor.

## **9. OVER TIME WORK**

If the contractor is required to work night or on holidays in order to maintain the time schedule he shall take prior approval from the Employer. He should also provide and maintain at his own cost sufficient lights as may be necessary to enable the work to proceed satisfactorily during the night.

- 9.2 The contractor shall give full facilities to all other contractors working on site. He shall also arrange his programme of work so as not hinder the progress of other trades. The decision

of the Employers on any point of dispute between the various parties shall be final and binding.

- 9.3 It is specifically pointed out that the contractor shall not be entitled to any compensation whatsoever on account of delay in procurement or supply of controlled materials and the rates quoted in the contract are fixed till the completion of the contract.
- 9.4 The contractor shall co-operate with other agencies appointed by the Employer for the work to proceed smoothly with the least possible delay and to the satisfaction.
- 9.5 The owners shall provide a source for power supply at one convenient point at site. The contractor shall at his own cost install a separate meter at the said source and lay additional cables from the said source also at his own cost. For the electricity consumed by the contractor he shall pay the owner the actual cost at the rate charged by the local authority for power for constructional purposes. The contractor shall also obtain the necessary permit for utilizing power for constructional purposes.

## **10. TERMS OF PAYMENT**

10.1 For equipments delivered and sorted at the site for the installation, the payment will be made by the HLL in accordance of this contract.

10.2 The rate of payment for the contract value under this contract shall be regulated and detailed below:

70% after supply of materials at site in good working condition on pro-rata basis.

20% after completion of installation in all respects.

Balance 10% will be paid after testing, commissioning & handing over to the client, including all required statutory approvals.

## **11. SPECIAL CONDITIONS**

### **11.1 EXECUTION WORK**

11.1.1 The whole of the work as described in the contract (including bills of materials, specification and all drawings pertaining thereto) and as advised by the Owners/Employers from time is to be carried out and completed in all parts to the entire satisfaction of the Owners/Employers. Any minor details of construction which are obviously and fairly intended, or which may not have been definitely referred to in this contract, but which are usual construction practice and essential to the work, shall be included in this contract.

## **11.2 MAINTENANCE & TRAINING FOR PERSONNEL**

- 11.2.1 The contractor shall without any extra cost carry out for a period of 12 months after the installation is taken over by the owners, all routine and special maintenance and attend to any difficulties and defects that may arise in the operation of the System
- 11.2.2 The contractor shall associate with the Employers' staff during erection and the maintenance period, in the maintenance/operation of the system
- 11.2.3 If required, by the Employers, the contractor shall also train members of the Employers' staff at their works/service station without any extra charge.

## **11.3 CERTIFICATE OF COMPLETION**

- 11.3.1 The contractor shall intimate to HLL in writing as and when the works are completed and put into beneficial use in order to enable HLL to check certify to the Employer to take over the plants.
- 11.3.2 The work shall not be considered as completed and put into beneficial use until HLL have certified in writing that the same has been completed and put into beneficial use.
- 11.3.3 The defects liability period of one year shall commence from date of such completion or any specific date mentioned therein.

## **11.4 OPERATIONAL AND MAINTENANCE MANUALS**

- 11.4.1 The contractor shall also furnish the prints of all up-dated handing over along with required set of operating/maintenance manuals/instructions.

## **11.5 STATUTARY APPROVALS**

All statutory approvals pertaining installations including electrical inspectorate & all the required approvals shall be in the scope of the supplier.

Tender Document for power supply connection to staff quarters of Type-II, Type-IV and Type-V, JIPMER, Puducherry.

TENDER NO. HLL/IDS/16/25/ Power supply-SQ/JIPMER dated: 28.12.2016

THE ABSTRACT OF BILL OF QUANTITIES IN THE PRICE BID SHALL BE INVARIABLY FILLED. THOSE WHO BIDDERS DO NOT FILL WILL BE NON-RESPONSIVE AND WILL BE DISQUALIFIED FROM EVALUATION AND WILL BE TREATED AS TECHNICALLY NOT QUALIFIED.

**ALL ROWS SHALL BE FILLED, THIS IS MANDATORY  
(IF NIL OR NA, THAT MAY ALSO BE SHOWN)**

**BILL OF QUANTITIES**

**ABSTRACT**

<b>SI No</b>	<b>Name of work</b>	<b>Amount in Rs</b>
<b>1</b>	<b>Power supply connection to staff quarters of Type-II, Type-IV and Type-V at JIPMER, Puducherry, including all taxes &amp; duties except service tax.</b>	
<b>a</b>	<b>Service tax component to be paid by the bidder</b>	
<b>b</b>	<b>Service tax component to be directly paid by the HLL in case the bidder is a Proprietary firm</b>	
	<b>GRAND TOTAL</b>	

**Name of Work: POWER SUPPLY CONNECTION FOR STAFF QUARTERS of TYPE 2, TYPE 4 AND TYPE 5**

S.No.	Description of works				
		Unit	Qty	Rate	Amount
1.0	22KV D.P.Structure				
1.1	Supply, installation, testing & commissioning of 22KV Outdoor DP structure suitable for operation on 22kV, 3Phase, 50cycles AC system & comprising of the following:	Set	4		
	1Set - 2 x 200 x100mm 9.15metres long RSJ, with welded base plate with required M.S. cross channels, angle iron brackets, M.S.clamps, G.I.bolt, nut & washers etc., complete including supplying assembling, fixing the following items as per as per CEA/Puducherry Electricity Department requirements & standard practice				
	1Set - 22KV Aluminium tubular conductor (3 nos) including connection form existing lines.				
	1Set - 22kV, 200A Gang Operated Air Break off-load, Rotating type, Double Break Isolator suitable for out door horizontal mounting. Complete with manual operating mechanisms, G.I. Arcing Horns & Terminal connectors, copper braid earthing etc.				
	1Set - 18KV, 5KA Lightning arrestors				
	1Lot - 22kV Pin Insulators as required				
	1 Lot of HT fuse link arrangements as required.				
	1Set - Jumpering wires & necessary tinned copper binding wires complete as required				
	1Set - Stay rods, wires, Guy insulators as required				
	1Set - Connecting all non current carrying metal part of the DP structure, M.S. channels, L.A etc., to earth electrode with 25x3mm of bare copper flats and accessories with 8SWG bare wire. (Interconnections between electrodes measured seperately).				
	The rate shall include required to complete the DP structure.				
	a.All civil works like excavation, concreting, coping for poles				
	b.Painting of DP structure with 1coats of anticorrosive red oxide primer & 2coats of Aluminium enamel paint				
	c.R,Y,B Colouring for all current carrying parts				
	d.Conical insulators for L.A.down conductor				
2	Transformer				



2.1	Supply and erection of 315KVA, 22/0.433KV, Off circuit ONAN Distribution transformer with HV side bare busing suitable for HT cable /Conductor and LV side Cable Box suitable for terminating 2 runs x 3.5C x 400 sqmm Al.Armd.cable constructed on the transformer plinth to maintain the height of 2.8Mtr from the Bare bushing of the transformer. The transformer specification shall be suited with Puducherry ELeCtricity board standards and norms.The foundation details of the transformer shall be obtained from the manufactures The cost shall include civil foundation with all accessories complete etc.	Each	2.00		
2.2	Supply and erection of 500KVA, 22/0.433KV, Off circuit ONAN Distribution transformer with HV side bare busing and LV side Cable Box suitable for terminating 2 runs x 3.5C x 400 sqmm Al.Armd.cable constructed on the transformer plinth to maintain the height of 2.8Mtr from the Bare bushing of the transformer. The transformer specification shall be suited with Puducherry ELeCtricity board standards and norms.The foundation details of the transformer shall be obtained from the manufactures The cost shall include civil foundation with all accessories complete etc.	Each	1.00		
3	HT CABLE				
3.1	Supplying and Laying of PVC insulated and PVC Sheathed/XLPE Power Cable of 22Kv grade of following size direct in ground Including excavation, sand cushioning, Protective covering and refilling the trench,cable ties, fasteners, etc				
a	3CX95Sq.mm.Al.Ar.Cable	Mtrs	380		
3	LT CABLE				
4	Supplying and Laying of PVC insulated and PVC Sheathed/XLPE Power Cable of 1.1Kv grade of following size direct in ground Including excavation, sand cushioning, Protective covering and refilling the trench,with necessary clamps, cable ties, fasteners, etc				
a	3.5C x 400 Sq.mm Al.Arm. Cable	Mtrs	250		
b	3.5C x185 Sq.mm Al.Arm. Cable	Mtrs	500		
5	HT CABLE END TERMINATIONS				
5.1	Termination for 22 kV grade XLPE insulated armoured aluminum conductor cable boots using heat shrinkable type termination's kit suitable for earthed system complete with heat shrinkable terminal.				
a	Outdoor Type 22Kv Grade Termination kit for 3C X 95 sq.mm Al.Conductor XLPE Cable.	Each	2		

6	TERMINATIONS				
6.1	Supply & end termination of following AL armoured power cables with necessary double compression brass glands, AL terminal sockets, insulation tapes, fasteners, earthing clips & connecting the clip to main earth bus with suitable bare copper wire complete accessories as required				
a	3.5C x 400 Sq.mm Al.Ar. Cable	Each	8		
b	3.5C x185 Sq.mm Al.Arm. Cable	Each	8		
7	DP STRUCTURE EARTHING				
7.1	Earthing with G.I. earth pipe 4.5 metre 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. (DP structure Body earth-2nos, L.A-1 No)	Each	8.00		
7.2	Providing and fixing 25x3mm G.I strip on surface or in recess for connection etc as required	Mtrs.	350.00		
7.3	Providing and fixing 8 SWG dia G.I. wire on surface or in recess for loop earthing as required.	Mtrs.	350.00		
7.4	Supplying, laying, and connecting of 50 x 6 mm. GI. Flat with necessary clamping arrangement in the double pole structure body earthing, bolts, nuts etc.	Mtrs.	350.00		
8	OUT DOOR YARD				
8.1	Supplying, fabricating, erecting & commissioning Gate for Supplier's DP Structure yard made out of 32mm dia.GI tubular frame with 25 x25mm welded mesh. The Gate shall be of size 1200(W)x 1800(H) mm. Proper supports shall be provided with MS Flats wherever necessary to prevent the welded mesh from warpping. The 50x 40 mm. channel vertical support for the gate shall be fixed into the ground with PCC.	Set.	4		
8.2	Supplying, erecting of 2.5 Mtr. height 40 x 6 MS angle around the yard and laid with chainlink fencing 10SWG thick with binding wire. The foundation of RCC Poles are also to be included in the offer. The pole to pole gap should be maintained as 2.25 Mts. Retains wall of 300 mm height will be constructed by the contractor.	Set.	4		
8.3	Spreading of 40 mm. blue metal jelly fully in the yard at the height of 100 mm. on the layer of sand of 150 mm. Height for the area of 160Sq.Mtr. It should be spread uniformly.	Set.	4		
9	GI Pipe for Cable Supporting in pole /surface where				

	ever required.				
		Mtrs	15		
10	MAIN LT PANEL				
a	Supply and Installation of main LT panel, floor mounted, front operated, dead back, totally enclosed vermin proof, out door, non- drawout, cubicle type power dist. panel fabricated out of 2mm thick CRCA sheet having gasketed hinged door on each cubicle, fully powder coated, incorporating horizontal and vertical sleeved aluminium busbars 'complete with all internal wiring, danger board, two earthing lugs, cable chamber etc. as required 'housing below mentioned switchgears. ( type V and IV)				
	Note :- GA & Control Drawing of the panel shall be approved by the consultant before fabrication. (Panel shall be manufactured from as per inspectorate rules.) All test certificates for Panel shall be submitted alongwith the delivery of Panel at site.				
	( MAIN LT PANEL) (Building Main Panel)				
	Incomings :-				
	1no.,800A, 4 Pole ACB Complete with neutral & accessories as incomer with O/L, E/F, S/C ,U/Vprotections				
	Indicating Lamps for R,Y,B,ON/OFF and Breaker 'Auto Trip' ,Spring Charge & Trip Circuit Healthy Indicator.				
	1 No's of Load Manager with Voltmeter&Ammeter.	Job	2		
	Outgoing :				
	4 way 400a MCCB /fuse with complete with neutral and all accessories complete .				
b	Supply and Installation of main LT panel, floor mounted, front operated, dead back, totally enclosed vermin proof, outdoor, non- drawout, cubicle type power dist. panel fabricated out of 2mm thick CRCA sheet having gasketed hinged door on each cubicle, fully powder coated, incorporating horizontal and vertical sleeved aluminium busbars 'complete with all internal wiring, danger board, two earthing lugs, cable chamber etc. as required 'housing below mentioned switchgears.(for Type II)				
	Note :- GA & Control Drawing of the panel shall be approved by the consultant before fabrication. (Panel shall be manufactured from as per inspectorate rules.) All test certificates for Panel shall be submitted alongwith the delivery of Panel at site.				
	( MAIN LT PANEL) (Building Main Panel)				
	Incomings :-				

	1no., 630A, 4 Pole MCCB Complete with neutral & accessories as incomer with O/L, E/F, S/C ,U/V ,Protections				
	Indicating Lamps for R,Y,B,ON/OFF and Breaker 'Auto Trip' ,Spring Charge & Trip Circuit Healthy Indicator.				
	1 No's of Load Manager with Voltmeter&Ammeter.	Job	1		
	Outgoing :				
	4 way 400A MCCB /fuse with complete with neutral and all accessories complete .				
	<b>Grand Total Amount in Rs.</b>				