



**THE KOLLAM DISTRICT CO-OPERATIVE
HOSPITAL SOCIETY LTD NO. Q 952**

DOCUMENT

For

**Execution of Electrical works in
Operation Theatre & CSSD**

Start date for issue of documents - 26/08/2021, 11.00 am onwards

Last date for submission of documents - 10/09/2021, up to 4.00 pm

Sealed quotations are invited by the **Secretary, NSMIMS, Kollam** for **Execution of Electrical works in Operation Theatre & CSSD**

1. **Nature and Scope of work:**

Nature and scope of the work is mentioned at **Annexure-I** of this document (enclosed herein).

2. **Eligibility:**

- i. Contractors who have sufficient experience of having successfully carried out similar works in Government Offices/Residential buildings/Office buildings/Pvt. buildings during the last two years are eligible to participate in the bidding.
- ii. The NSMIMS reserves the right to verify the proof of having experience and expertise of the bidder in executing similar works and the bidder has to produce the proof thereof.

3. **Submission of bid:**

The document can be obtained in person from the below mentioned address from 10.00 am to 5.00 pm on all working days:

N.S Memorial Institute of Medical Sciences, Palathara, Thattamala

P.O Kollam 691020

Alternatively, the document can be downloaded from the website

www.nshospital.org

The bid along with the NSMIMS's terms and condition duly signed is to be submitted in a sealed envelope super scribing "**Execution of Electrical works in Operation Theatre & CSSD in Extension Block of NSMIMS.**"

The Tenderer should submit the following along with the bid

- (i) (1) List of similar works completed during the last three years in any Government organization or private company
 - (2) Copy of Registration of VAT and Service Tax
 - (3) Copy of PAN Number
 - (4) If the bid is from an authorized dealer/ distributor of any manufacturer, the dealer or distributor shall submit a valid proof for authorized dealership/ distributorship.
 - (5) Satisfactory completion certificate from the organization where the tenderer has successfully completed similar projects within last 2 years.
- (ii) Price Bid Form to be submitted by duly filling up the rates for each item of work indicated in the prescribed price bid form.

Bid shall be submitted in a sealed cover super scribed “Execution of Electrical works in Operation Theatre & CSSD in Extension Block of NSMIMS and due date is upto 4.00 pm on 10/09/2021

The **NSMIMS** is not responsible for delay, loss or non- receipt of bids on time sent by post. Fax / Email / Telegraphic offers shall not be accepted.

4. Place of Submission

N.S Memorial Institute of Medical Sciences, Palathara, Thattamala P.O, Kollam 691020.

5. Clarifications:

The bidders are requested to go through the 'Scope of Work' and 'Terms and conditions' of the bid before submitting their offer/bid. Any clarification, if required, may be obtained prior to filing of bid from the Office. No claim whatsoever on such account shall be entertained by the NSMIMS in any circumstances. The bidders shall physically inspect the work premises during working hours on working days and ensure the quantity and scope of the work before bidding.

6. Variation of quantity :

- (i) The quantity (area) mentioned in the scope of work is approximate. The NSMIMS or any authorized person reserves the right at the time of award and executing of the contract to vary the quantity of the area specified in the scope of work without any change in the unit rate quoted and/or to cancel any work mentioned under the scope of work.
- (ii) The successful bidder to whom work is awarded shall be paid for the actual work completed and actual material utilised as per rate schedule furnished by the bidder.

7. Terms and conditions of Bid:

The terms and conditions of above bid are enclosed in the bid form, which is part and parcel of the bid document. The bidders should submit the bid form by duly accepting the NSMIMS's terms and conditions of the bid as stipulated in the bid form. The bid submitted without the acceptance of the NSMIMS's terms and conditions shall be summarily rejected.

8. No canvassing :

Canvassing in connection with the bids is prohibited and the bids submitted by the contractor who resort to canvassing are liable for rejection.

- 9.** The NSMIMS reserves the right to accept or reject any or all bids in part or in total without assigning any reason whatsoever.

Annexure-I

BID FORM

(The bidders should submit their acceptance only in Bid Form for the acceptance of the NSMIMS's terms and conditions of Bid)

Name of the work:

Electrification works of Operation Theatre & CSSD in Extension Block of NSMIMS.

NSMIMS's Terms and conditions of Bid:

1. Rate / Price

- i. The unit rate to be quoted shall be unit rate and shall remain firm without the price variation clause. The bidders should not claim for any price variation / escalation.
- ii. The bid submitted with a price variation/escalation clause will be treated as non-responsive and rejected.
- iii. Bid / rates quoted by the bidder shall remain valid for 120 days from the date of opening of tenders for the purpose of acceptance and award of work; validity beyond 120 days from the date of opening shall be by mutual consent. No price variation / cost escalation is accepted.
- iv. The rates quoted by the bidder should be inclusive of all the tax applicable, levies, excise duties, transit, insurance and freight and any other statutory levies etc.
- v. The Income Tax and any other taxes or charges as applicable will be deducted at source by the NSMIMS from the successful bidder while making the payment.
- vi. The price quoted by the bidder shall remain firm during the entire period of contract and shall not be subject to variation on any account.

2. The bidder should quote the rate as specified in the scope of work.

3. Execution of work:

- i. **Time period of completion:** The successful bidder shall execute and complete the work as per specification/Scope of work mentioned in **Annexure-I** to the satisfaction of the Officer-In-Charge **within a period of 8 weeks from the date of award of work.**
- ii. The successful bidder to whom the work is awarded shall have to execute the work as per the work order AND the terms & conditions of this tender document.

SIGNATURE OF THE TENDERER`

- iii. The NSMIMS is not responsible for the breakage/damage of any goods during the transit. In that case, it is the responsibility of the firm/contractor to whom the work has been awarded.
- iv. No extra cost shall be given for transportation; cost of labourers, insurance etc., as the rates quoted is all inclusive price.
- v. The contractor shall have to bring all the supporting materials for carrying out the above work.

4. Variation in quantity/ scope of work:

The quantity mentioned in the scope of work is approximate. The NSMIMS reserves the right at the time of award/execution of the contract to vary the quantity specified in the scope of work without any change in the unit rate. However, the payment will be made as per the actual material used and work done.

5. Security Deposit & Performance Guarantee

The Contractor shall submit a bank guarantee for 5% of the bill amount towards security deposit. The bank guarantee shall be from a nationalized bank and shall be valid for a period of 12 months and additionally 60 days from the date of completion of the work to the full satisfaction of the NSMIMS. The same shall be released by the NSMIMS after the expiry of the above period.

6. Liquidated damages

For delay in completion of work, the liquidated damage @ 1% of order value per week or part thereof subject to the maximum of 10% of the order value shall be deducted.

7. Extension of work completion time

Ordinarily no time extension shall be granted. However, under unforeseen site conditions, the contractor shall make proper representation to the office in-charge with reasons for the delay upon which the extension of completion time may be allowed by the office incharge.

8. Payment terms

A part payment upto 20% of the contract value shall be paid upon receipt of the materials required for project at the site after due verification and authentication by the Officer In-charge against submission of the part bill by the contractor. Balance Payment shall be made against the final bill within 45 days from the date of completion of the works to the satisfaction of the NSMIMS/Officer In-charge in all respects and submission of completion certificate.

9. Completion Certificate

Within one month of the completion of the work the contractor shall furnish a certificate for such completion.

SIGNATURE OF THE TENDERER

10. Guarantee Period

Guarantee period for all materials supplied and installed should be 12 months from the date of completion of the installation from the date of completion of installation for poor workmanship, poor performance, and in case of deficiencies are found during guarantee period, the same shall be rectified or replaced free of cost by the Contractors at their own cost and risk.

11. Quality assurance:

The successful contractor should ensure the quality of material as per the requirement / discretion of the NSMIMS and quality standards as specified by Government agencies.

12. Right to accept or reject tender

- (i) The right of acceptance of tender will rest with the NSMIMS.
- (ii) The acceptance of the tender shall rest with the NSMIMS who does not bind himself to accept the lowest tender and reserves to himself the authority to reject any or all of the tenders received without assigning any reason. Further, the NSMIMS reserves the right to accept the whole or any part of the tender and tenderer shall be bound to perform the same at the rates quoted. All the tenders in whom any of the prescribed conditions are not fulfilled or are incomplete in any respect shall be liable to be rejected.

13. Insurance

Contractor shall at his own expenses carry and maintain insurance with reputable Insurance Companies for : (i) Employees State Insurance Act, (ii) workmen's Compensation & Employer's Liability Insurance, (iii) Any other Insurance required under Law or Regulations or by Owner.

14. Safety Regulations

Contractor shall adhere to safe construction practice and guard against hazardous and unsafe working conditions and shall comply with safety rules. The NSMIMS shall not be held responsible for any accidents that occur due to unsafe practice of the persons employed by the contractor to carry out the work.

15. Other Important conditions

Before submitting their bid proposals, bidders shall carefully examine the site of the work to familiarize themselves with the site conditions which exist regarding present work to be executed, materials to be matched, precautions required, working space available and other conditions necessary to the making of the intelligent bids.

All the above terms and conditions of the tender as mentioned above AND included in the tender document are duly accepted.

SCOPE OF WORK

CSSD(2nd and 3rd)								
BOQ								
SL.No	DESCRIPTION	UNIT	QTY	SUPPLY		LABOUR		TOTAL AMOUNT
				RATE	AMOUNT	RATE	AMOUNT	
SECOND FLOOR CSSD								
1	Supplying and fixing following rating, 100A four pole, 415 V, isolator in the existing Enclosure complete with connections, testing and commissioning etc. as required.(STERLIZER)	nos	2					
2	Supply, installation, testing and commissioning of 63A metal clad outlet and 4P MCB in metallic enclosure with epoxy coating, and all internal connection etc., (Washer disinfecter)	nos	1					
3	Supply, installation, testing and commissioning of 32A metal clad outlet and 4P MCB in metallic enclosure with epoxy coating, and all internal connection etc., (Washer disinfecter)	nos	2					
4	Supply, installation, testing and commissioning of thermoplastic polycarbonate enclosure box environment friendly, recyclable, UV resistant, halogen & silicon free, anti acid & anti corrosive. The Degree of Ingress Protection IP 42 in accordance with IEC 60529. The gasket material is Polyurethane; while the gasket is internally embedded(STERLIZER)	nos	2					
5	Supply, store, installation , testing & commissioning of 1100V grade, XLPE insulated, PVC sheathed, Aluminium conductor, steel armoured cables for the following sizes. The cable shall be laid as per IS 1255 with fixing accessories mentioned in tender technical specifications. Cables shall be laid through existing perforated cable tray /trench / clamped on the walls/slabs with proper Identification tags in every 3meter made out of engraved Aluminium strip, marked with cable size and upstream / down stream panel names and location (from-to).							-
a)	3.5c x 70 sq.mm(for sterlizer)	Mtrs.	90					
b)	4c x 6 sq.mm (for AHU)	Mtrs.	90					
c)	4c x 6 sq.mm (for dump waiter)	Mtrs.	65					
d)	4c x16 sq.mm (washer disinfecter)	Mtrs.	25					
6	Supply , store, installation , testing & commissioning of following Al cables end-terminations using meduim brass cable gland including gland earthing as per IS3043:87 of adequate size. 'Vendor shall consider Single compression glands - for cables of size below 185 sq.mm. Double compression glands - for cables of size 185 sq.mm and above. Double compression glands - single core cables - 400 sq.mm and above.							

	Compressed terminating Lugs - Aluminium lugs for aluminium conductor cables.							
a)	3.5 x 70 sq.mm(for sterlizer)	Nos	4					
b)	4 x 6 sq.mm(for AHU)	Nos	4					
c)	4c x 16 sq.mm(washer disinfecter)	Nos	2					
d)	4c x 10 sq.mm(washer disinfecter)	Nos	2					
e)	3.5c x 25 sq.mm(washer disinfecter)	Nos	4					
7	cutting & plastering of brick wall after fixing additional sockets	sqm	6					
8	Supply, store, installation , testing & commissioning of 1100V grade, XLPE insulated, PVC sheathed, Copper conductor, steel armoured cables for the following sizes. The cable shall be laid as per IS 1255 with fixing accessories mentioned in tender technical specifications. Cables shall be laid through exsiting perforated cable tray /trench / clamped on the walls/slabs with proper Identification tags in every 3meter made out of engraved Aluminium strip, marked with cable size and upstream/down stream panel names and location (from-to).							
	4cx25sqmm(Sterlizer)	Mtrs.	40					
	4cx10sqmm(washer disinfecter)	Mtrs.	10					
9	Supply, store, installation, testing and commissioning of powder coated, 10KA double door MCB distribution boards with gland boxes and 4pole isolator / ELCB's as incomer. DB's shall be wall mounted / surface mounted etc., as specified and as per approved drawings with load schedules etc.,The degree of protection shall not be less than IP42 / as per specifications complete with fixing on GI 'U' channel / on the wall with spring supports fixing accessories / wall chipping & making the surface good for concealing DB's. Rates including ferruling for identification of each circuit's, providing laminated final load schedules in extra pocket in DB's, naming of DB's etc., All DB's with MCB's/other accessories shall be same as that of DB make with terminals for all nuetral, earth wires terminations and equipotential bonding. All MCB for lighting / Power circuits shall be type C and Type B MCB shall be used for resistive circuit only.All UPS circuits shall be Type D MCBs.							
	Legrand,ABB,Schneider.							
1	12 WAY SINGLE PHASE DB(UDB 5)	Nos	1					
	Incomer:							
	32A DP 100mA RCBO							
	OUTGOING							
	16A /6A SP MCBs							
2	6 WAY VTPN DB	nos	1					
	Incomer:							
	100A TPN MCCB -1 No							
	OUTGOING							
	63/40A/32A TP MCB							

EARTHING								
10	Supplying & laying / fixing of earthing conductor of copper strips/wires including crimping of strips/ wires using appropriate legs, including necessary earthing trenches, jointing as per IS:3043/87 in trenches, walls, pulling through pipes, etc							
a)	Copper wire No. 10 SWG	Mtrs.	320					
b)	Earth benches (using 25X3mm cu strip)	nos	2					
CSSD(2nd and 3rd)								
11	Supply, installation, testing and commissioning of 6/16A- 3 pin socket and switch, M.S. box with epoxy coating and all internal connection etc., complete	nos	8					
12	Supply, installation, testing and commissioning of 6/16A- 3 pin socket and 16A AC switch, M.S. box with epoxy coating and all internal connection etc., complete	nos	1					
13	Supply, installation, testing and commissioning 6Amps modular type switch and 3 pin socket on metal concealed box with epoxy coating.	nos	23					
14	Supply, installation, testing and commissioning 2runs of 1.5sq.mm PVC insulated FRLS copper wire with 1no 1.5Sqmm copper wire(green) for earth through 20mm medium grade PVC conduit circuit for wiring from distribution board.	meter	160					
15	Supply, installation, testing and commissioning 2runs of 2.5sq.mm PVC insulated FRLS copper wire with 1no 2.5Sqmm copper wire(green) for earth through 20mm medium grade PVC conduit circuit for wiring from distribution board.	meter	180					
16	Supply, installation, testing and commissioning 2runs of 4sq.mm PVC insulated FRLS copper wire with 1no 4Sqmm copper wire(green) for earth through 20mm medium grade PVC conduit for wiring power plug points from distribution board.	meter	10					
17	Rerouting of existing UPS and RP circuit with 2X2.5 Sq mm +1Run 2.5 Sq mm as earth from existing switchboard to new location in 20mm medium grade PVC conduit(as per drawing socket number S5,S6).	day	1					
18	Removal of 6A socket in metallic boxes and providing dummy , also the existing wiring shall be removed and shifted to store, as instructed by project in charge.(as per drawing socket no S7,S8)	day	1					
19	cutting & plastering of brick wall after fixing additional sockets	sqm	10					
20	Removal of existing 6/16A socket & 4 metallic boxes in the existing entry of semi sterile passage & Proposed CSSD area, also the existing wiring shall be removed/rerouting/repainting,as instructed by project in charge.	day	1					

POINT WIRING								
21	Supply, installation, testing and commissioning of lights,fan and plug points including testing and commissioning in concealed conduit system from control board to luminaries / Fans / Plug points using single core PVC insulated stranded1.1kV grade FRLS copper wire of size 1.5 sq.mm along with same size pvc insulated wire as earth continuity conductor through FR PVC rigid (medium) conduit with necessary bends, junction boxes, (necessary bushes shall be provided at conduit ends), and 6A modular type switches on metal boxes complete with ceiling roses, plugs etc. The rate shall include chipping walls,concrete floors,beams etc.and making good finsh with cement mortar, plugs etc.							
	One Light controlled by 6A switch.	point	17					
	Two light controlled by 6 A switch.	point	5					
	Three light controlled by 6 A switch.	point	1					
	Four light controlled by 6 A switch.	point	RO					
	Five light controlled by 6 A switch.	point	1					
	6 light controlled by 6 A switch.	point	RO					
	10 light controlled by 6 A switch.	point	RO					
	One light controlled by 2 nos.6A 2 way switch.	point	RO					
	Wall fan point controlled by one 6A switch .	no	2					
	Exhaust fan point wiring	no	4					
LIGHT FIXTURES								
22	Installation, Testing and Commissioning of Recessed MOUNTED LED LIGHT FIXTURE , 30W 2FT x 2FT, 5700 k, WITH GLARE RATIO 19-22 (LT - F02857RI00 FULL LIT ULTRA 28W OR EQUIVALENT)).Rate shall be inclusive of necessary support materials for hanging the light fixture with SS chain or equivalent.(Fixtures supplied by client.)	nos	11	2900	31,900	100	1,100.00	33,000.00
23	Installation, Testing and Commissioning of Recessed mounted LED Light Fixture 28W,5700 k,CRI-80. (LT - S02857RP00 SPARKLE Ultra OR EQUIVALENT Rate shall be inclusive of necessary support materials for hanging the light fixture with SS chain or equivalent. (Fixtures supplied by client.)	nos	8					
24	Installation, Testing and Commissioning of Recessed mounted LED Light Fixture 12W, 5700 k,CRI-80. (LT - D012CTR000 OR EQUIVALENT)(L1& L2 Fixtures as per Lighting Layout)(Fixtures supplied by client.)	nos	14					
25	Installation, Testing and Commissioning of Recess Mounted LED LIGHT FIXTURE, 18W 1FT x 1FT, 5700 k, CRI-80, LIGHT FITTING (LT - D018CTR000 DICE 18W OR EQUIVALENT) (R1 Fixtures as per Lighting Layout).Rate shall be inclusive of necessary support materials for hanging the light fixture with SS chain or equivalent.(Fixtures supplied by client.)	nos						

26	Installation Testing and Commissioning of Recessed 6W LED SPOT LIGHT LUMINIRE, (L4 Fixtures as per Lighting Layout) (Fixtures supplied by client.) (Fixtures supplied by client.)	nos	RO					
27	Supply, installation, testing and commissioning of 400mm Wall fan working on 230 V AC. The work shall include fixing necessary bolt and nuts making good the damages etc. as required .(Fixtures supplied by Client)	nos	2					
TOTAL								
GRAND TOTAL Including GST								

OT RENOVATION								
BOQ								
SL.No	DESCRIPTION	UNIT	QTY	SUPPLY		LABOUR		TOTAL AMOUNT
				RATE	AMOUNT	RATE	AMOUNT	
DOCTORES REST ROOM								
1	Supply, installation, testing and commissioning 6Amps modular type switch and 3 pin socket on metal concealed box with epoxy coating.	nos	5					
2	Supply, installation, testing and commissioning of 6/16A- 3 pin socket and 16A AC switch, M.S. box with epoxy coating and all internal connection etc., complete	nos	1					
3	Supply , installation , testing and commissioning 2runs of 1.5sq.mm PVC insulated FRLS copper wire with 1no 1.5Sqmm copper wire(green) for earth through 20mm medium grade PVC conduit circuit for wiring from distribution board.	RO						
4	Supply , installation , testing and commissioning 2runs of 2.5sq.mm PVC insulated FRLS copper wire with 1no 2.5Sqmm copper wire(green) for earth through 20mm medium grade PVC conduit circuit for wiring from distribution board.	meter	80					
5	cutting & repairing of brick wall after fixing additional sockets	sqm	9					
PRE OPERATIVE WARD								
6	Supply, installation, testing and commissioning 6Amps modular type switch and 3 pin socket on metal concealed box with epoxy coating.	nos	16					
7	Supply, installation, testing and commissioning 6/16Amps modular type switch and 3 pin socket on metal concealed box with epoxy coating.	nos	RO					
8	Supply , installation , testing and commissioning 2runs of 1.5sq.mm PVC insulated FRLS copper wire with 1no 1.5Sqmm copper wire(green) for earth through 20mm medium grade PVC conduit circuit for wiring from distribution board.	meter	30					
9	Supply , installation , testing and commissioning 2runs of 2.5sq.mm PVC insulated FRLS copper wire with 1no 2.5Sqmm copper wire(green) for earth through 20mm medium grade PVC conduit circuit for wiring from distribution board.	meter	80					
10	Supply , installation , testing and commissioning 2runs of 4sq.mm PVC insulated FRLS copper wire with 1no 4Sqmm copper wire(green) for earth through 25mm medium grade PVC conduit circuit for wiring from distribution board.	Meter	30					

11	Supply, installation, testing and commissioning of 6/16A- 3 pin socket and 16A AC switch, M.S. box with epoxy coating and all internal connection etc., complete	nos	2					
12	Rerouting of existing UPS circuits with 2X2.5 Sqmm +1Run 2.5 Sqmm as earth from existing switchboard to new location in 20mm medium grade PVC conduit(as per drawing socket number S4).	day	1					
13	cutting & repairing of brick wall after fixing additional sockets	sqm	9					
MINOR OT & ESWL OT								
14	Supply, installation, testing and commissioning 6Amps modular type switch and 3 pin socket on metal concealed box with epoxy coating.	RO						
15	Supply, installation, testing and commissioning of 6/16A- 3 pin socket and switch, M.S. box with epoxy coating and all internal connection etc., complete	nos	2					
16	Supply , installation , testing and commissioning 2runs of 1.5sq.mm PVC insulated FRLS copper wire with 1no 1.5Sqmm copper wire(green) for earth through 20mm medium grade PVC conduit circuit for wiring from distribution board.	meter	30					
17	Supply , installation , testing and commissioning 2runs of 2.5sq.mm PVC insulated FRLS copper wire with 1no 2.5Sqmm copper wire(green) for earth through 20mm medium grade PVC conduit circuit for wiring from distribution board.	meter	40					
18	Supply , installation , testing and commissioning 2runs of 4sq.mm PVC insulated FRLS copper wire with 1no 4Sqmm copper wire(green) for earth through 20mm medium grade PVC conduit circuit for wiring from distribution board.	meter	40					
19	cutting & repairing of brick wall after fixing additional sockets	sqm	9					
MAJOR OT								
20	Supply, installation, testing and commissioning 6Amps modular type switch and 3 pin socket on metal concealed box with epoxy coating.	nos	RO					
21	Supply, installation, testing and commissioning of 6/16A- 3 pin socket and switch, M.S. box with epoxy coating and all internal connection etc., complete	nos	32					
22	Supply , installation , testing and commissioning 2runs of 1.5sq.mm PVC insulated FRLS copper wire with 1no 1.5Sqmm copper wire(green) for earth through 20mm medium grade PVC conduit circuit for wiring from distribution board.	meter	160					
23	Supply , installation , testing and commissioning 2runs of 2.5sq.mm PVC insulated FRLS copper wire with 1no 2.5Sqmm copper wire(green) for earth through 20mm medium grade PVC conduit circuit for wiring from distribution board.	meter	280					
24	Supply , installation , testing and commissioning 2runs of 4sq.mm PVC insulated FRLS copper wire with 1no 4Sqmm copper wire(green) for earth through 20mm medium grade PVC conduit circuit for wiring from distribution board.	meter	RO					
25	cutting & repairing of brick wall after fixing additional sockets	sqm	9					
DELIVERY ROOM								
26	Supply, installation, testing and commissioning 6Amps modular type switch and 3 pin socket on metal concealed box with epoxy coating.	nos	16					

27	Supply, installation, testing and commissioning of 6/16A- 3 pin socket and switch, M.S. box with epoxy coating and all internal connection etc., complete	nos	11					
28	Supply , installation , testing and commissioning 2runs of 4sq.mm PVC insulated FRLS copper wire with 1no 4Sqmm copper wire(green) for earth through 20mm medium grade PVC conduit circuit for wiring from distribution board.	Meter	100					
29	Rerouting of existing UPS circuits with 2X2.5 Sqmm +1Run 2.5 Sqmm as earth from existing switchboard to new location in 20mm medium grade PVC conduit(as per drawing socket.)	day	1					
30	Supply , installation , testing and commissioning 2runs of 1.5sq.mm PVC insulated FRLS copper wire with 1no 1.5Sqmm copper wire(green) for earth through 20mm medium grade PVC conduit circuit for wiring from distribution board.	Meter	90					
31	Supply , installation , testing and commissioning 2runs of 2.5sq.mm PVC insulated FRLS copper wire with 1no 2.5Sqmm copper wire(green) for earth through 20mm medium grade PVC conduit circuit for wiring from distribution board.	meter	75					
32	Removal of 6A socket in metallic boxes and providing dummy , also the existing wiring shall be removed and shifted to store, as instructed by project in charge.(as per drawing socket no S3)	day	1					
33	cutting & repairing of brick wall after fixing additional sockets	sqm	9					
GYNEC POST OP ICU&ISOLATION								
34	Supply, installation, testing and commissioning 6Amps modular type switch and 3 pin socket on metal concealed box with epoxy coating.	nos	28					
35	Supply, installation, testing and commissioning of 6/16A- 3 pin socket and switch, M.S. box with epoxy coating and all internal connection etc., complete	nos	2					
36	Supply , installation , testing and commissioning 2runs of 1.5sq.mm PVC insulated FRLS copper wire with 1no 1.5Sqmm copper wire(green) for earth through 20mm medium grade PVC conduit circuit for wiring from distribution board.	Meter	120					
37	Supply , installation , testing and commissioning 2runs of 2.5sq.mm PVC insulated FRLS copper wire with 1no 2.5Sqmm copper wire(green) for earth through 20mm medium grade PVC conduit circuit for wiring from distribution board.	Meter	200					
38	Rerouting of existing UPS circuit with 2X2.5 Sq mm +1Run 2.5 Sqmm as earth from existing switchboard to new location in 20mm medium grade PVC conduit(as per drawing socket number S9).	day	1					
39	cutting & repairing of brick wall after fixing additional sockets	sqm	9					
LABOR STAGE 1 & 3								
40	Removal of 63A to 100A mcb Isolator in metallic enclosure for reuse and shifting to the store as instructed by project in charge.(Labour Charge)	nos	3					
41	Removal of existing cables laid in cable trays or clamped to walls without damage and for reuse the new VTPN DB or shifting of the same to the nearest store to the satisfaction of project in charge.	Meter	30					
42	Supply, installation, testing and commissioning 6Amps modular type switch and 3 pin socket on metal concealed box with epoxy coating.	nos	16					

43	Supply, installation, testing and commissioning of 6/16A- 3 pin socket and switch, M.S. box with epoxy coating and all internal connection etc., complete	nos	10					
44	Supply , installation , testing and commissioning 2runs of 1.5sq.mm PVC insulated FRLS copper wire with 1no 1.5Sqmm copper wire(green) for earth through 20mm medium grade PVC conduit circuit for wiring from distribution board.	Meter	67					
45	Supply, installation, testing and commissioning 2runs of 2.5sq.mm PVC insulated FRLS copper wire with 1no 2.5Sqmm copper wire(green) for earth through 20mm medium grade PVC conduit circuit for wiring from distribution board.	Meter	155					
46	Supply, installation, testing and commissioning 2runs of 4sq.mm PVC insulated FRLS copper wire with 1no 4Sqmm copper wire(green) for earth through 20mm medium grade PVC conduit circuit for wiring from distribution board.	Meter	RO					
47	Rerouting of existing UPS circuit with 2X2.5 Sqmm +1Run 2.5 Sq mm as earth from existing switchboard to new location in 20mm medium grade PVC conduit(as per drawing socket number S1).	day	1					
48	cutting & repairing of brick wall after fixing additional sockets	sqm	9					
COUNSELLING ROOM&LABOUR DOCTORES LOUNGE								
49	Supply, installation, testing and commissioning 6Amps modular type switch and 3 pin socket on metal concealed box with epoxy coating.	nos	4					
50	Supply, installation, testing and commissioning of 6/16A- 3 pin socket and switch, M.S. box with epoxy coating and all internal connection etc., complete	nos	1					
51	Supply, installation , testing and commissioning 2runs of 2.5sq.mm PVC insulated FRLS copper wire with 1no 2.5Sqmm copper wire(green) for earth through 20mm medium grade PVC conduit circuit for wiring from distribution board.	meter	25					
52	Supply , installation , testing and commissioning 2runs of 1.5sq.mm PVC insulated FRLS copper wire with 1no 1.5Sqmm copper wire(green) for earth through 20mm medium grade PVC conduit circuit for wiring from distribution board.	meter	15					
53	cutting & repairing of brick wall after fixing additional sockets	sqm	9					
WAITING AREA								
54	Supply, installation, testing and commissioning 6Amps modular type switch and 3 pin socket on metal concealed box with epoxy coating.	nos	7					
55	Supply, installation, testing and commissioning of 6/16A- 3 pin socket and switch, M.S. box with epoxy coating and all internal connection etc., complete	nos	2					
56	Supply , installation , testing and commissioning 2runs of 2.5sq.mm PVC insulated FRLS copper wire with 1no 2.5Sqmm copper wire(green) for earth through 20mm medium grade PVC conduit circuit for wiring from distribution board.	meter	45					
57	Removal of 6A socket in metallic boxes and providing dummy , also the existing wiring shall be removed and shifted to store, as instructed by project in charge.(as per drawing socket no S10)	LS	1					
58	cutting & repairing of brick wall after fixing additional sockets	sqm	5					
CORRIDOR , COMMON AREAS & ELECTRICAL ROOM								
59	Removal of existing 4way VTPN DB from shaft as per instruction of project in charge. (Labour Charge)	LS	1					

60	Removal of existing electrical fixtures as per the instruction of project in charge.	Day	1					
61	Supply , installation , testing and commissioning 2runs of 1.5sq.mm PVC insulated FRLS copper wire with 1no 1.5Sqmm copper wire(green) for earth through 20mm medium grade PVC conduit circuit for wiring from distribution board.	Meter	350					
62	Supply , installation , testing and commissioning 2runs of 2.5sq.mm PVC insulated FRLS copper wire with 1no 2.5Sqmm copper wire(green) for earth through 20mm medium grade PVC conduit circuit for wiring from distribution board.	Meter	30					
63	Supply , installation , testing and commissioning 2runs of 4sq.mm PVC insulated FRLS copper wire with 1no 4Sqmm copper wire(green) for earth through 20mm medium grade PVC conduit circuit for wiring from distribution board.	Meter	100					
64	Supply, installation, testing and commissioning of 6/16A- 3 pin socket and 16A AC switch, M.S. box with epoxy coating and all internal connection etc., complete	nos	3					
65	Supply, installation, testing and commissioning of 6/16A- 3 pin socket and switch, M.S. box with epoxy coating and all internal connection etc., complete	nos	3					
66	Supply, installation, testing and commissioning 6Amps modular type switch and 3 pin socket on metal concealed box with epoxy coating.	nos	1					
67	Relocated and terminated the existing DB for as per the instruction of project in-charge.	LS	1					
68	Existing panel connection re-termination/rerouting the existing cabling as per the instruction of project in charge.	LS	1					
DB (FOR OT , Labor OT and CSSD)								
69	Supply, store, installation, testing and commissioning of powder coated, 10KA double door MCB distribution boards with gland boxes and 4pole isolator / ELCB's as incomer. DB's shall be wall mounted / surface mounted etc., as specified and as per approved drawings with load schedules etc. The degree of protection shall not be less than IP42 / as per specifications complete with fixing on GI 'U' channel / on the wall with spring supports fixing accessories / wall chipping & making the surface good for concealing DB's. Rates including ferruling for identification of each circuit's, providing laminated final load schedules in extra pocket in DB's, naming of DB's etc., All DB's with MCB's/other accessories shall be same as that of DB make with terminals for all neutral, earth wires terminations and equipotential bonding. All MCB for lighting / Power circuits shall be type C and Type B MCB shall be used for resistive circuit only. All UPS circuits shall be Type D MCBs.							
1)	8 WAY SINGLE PHASE DB(UDB)	nos	4					
	Incomer:							
	32A DP 100mA RCBO							
	OUTGOING							
	16A /6A SP MCBs							
2)	6 WAY THREE PHASE DB(PDB)	nos	1					
	Incomer:							
	40A TPN 100mA RCBO							
	OUTGOING							
	16A /6A SP/DP MCBs							

3)	8 WAY VTPN DB	nos	1					
	Incomer:							
	100A TPN MCCB -1 No							
	OUTGOING							
	40A/32A TP MCB							
4)	6 WAY VTPN DB	nos	1					
	Incomer:							
	63A TPN MCCB -1 No							
	OUTGOING							
	40A/32A TP MCB							
5)	4 WAY VTPN DB	nos	1					
	Incomer:							
	63A TPN MCCB -1 No							
	OUTGOING							
	40A/32A TP MCB							
70	Supply , store, installation , testing & commissioning of XLPE insulated PVC sheathed 1.1kV grade Cu. armoured cables for the following sizes. The cable shall be laid as per IS 1255 with fixing accessories mentioned in tender technical specifications. Cables shall be laid through excavated trench/ built up trench/ existing cable tray / pulling through existing pipes/clamped on to the walls with identification tags in every 3meter made out of engraved Aluminium strip, marked with cable size and upstream/ down stream panel names and location (from-to).							
	3C x 4 Sq.mm (UPS DB)	Mtrs.	40					
	3C x 6 Sq.mm (UPS DB)	Mtrs.	20					
71	Supply , store, installation , testing & commissioning of 1100V grade, XLPE insulated, PVC sheathed, Aluminium conductor, steel armoured cables for the following sizes. The cable shall be laid as per IS 1255 with fixing accessories mentioned in tender technical specifications. Cables shall be laid through existing perforated cable tray /trench / clamped on the walls/slabs with proper Identification tags in every 3meter made out of engraved Aluminium strip, marked with cable size and upstream/down stream panel names and location (from-to).							
	3.5X240sqmm	Mtrs.	20					
	3.5Cx 35 sq.mm(VTPB DBs)	Mtrs.	110					
	4Cx 25 sq.mm	Mtrs.	RO					
	4Cx 16 sq.mm	Mtrs.	40					
	4Cx 10 sq.mm	Mtrs.	40					
	4Cx 6 sq.mm	Mtrs.	RO					
	4Cx 4 sq.mm	Mtrs.	RO					

72	Supply , store, installation , testing & commissioning of following Al cables end-terminations using medium brass cable gland including gland earthing as per IS3043:87 of adequate size. 'Vendor shall consider Single compression glands - for cables of size below 185 sq.mm. Double compression glands - for cables of size 185 sq.mm and above. Double compression glands - single core cables - 400 sq.mm and above. Compressed terminating Lugs - Aluminium lugs for aluminium conductor cables.							
	3.5Cx 240 sq.mm	nos	2					
	3.5Cx 35 sq.mm	nos	6					
	4Cx 25 sq.mm	nos	RO					
	4Cx 16 sq.mm	nos	2					
	4Cx 10 sq.mm	nos	2					
	4Cx 6 sq.mm	nos	8					
	4Cx 4 sq.mm	nos	RO					
AHU								
73	Supply, installation, testing and commissioning of 32A metal clad outlet and 4P MCB in metallic enclosure with epoxy coating, and all internal connection etc., complete.	nos	10					
74	Supply, installation, testing and commissioning of 16A metal clad outlet and 4P MCB in metallic enclosure with epoxy coating, and all internal connection etc., complete.	nos	RO					
75	Supply and fixing of fan box (junction type) /hook with suitable drilling including all accessories (Including chipping of concrete for fixing & making good finish with cement mortar)	nos	10					
76	Supply and providing ON/ OFF push button station with indication in suitable metallic enclosure as required.	nos	RO					
CABLING AND TERMINATION(AHU)								
	Cabbling							
77	Removal/Replacing/re-termination the existing cabling, as per the instruction of site engineer.	Mtrs.	100					
78	Supply , store, installation , testing & commissioning of 1100V grade, XLPE insulated, PVC sheathed, Aluminium conductor, steel armoured cables for the following sizes. The cable shall be laid as per IS 1255 with fixing accessories mentioned in tender technical specifications. Cables shall be laid through existing perforated cable tray /trench / clamped on the walls/slabs with proper Identification tags in every 3meter made out of engraved Aluminium strip, marked with cable size and upstream/down stream panel names and location (from-to).							
	4CX16Sqmm	Mtrs.	RO					
	4cX10 sq mm	Mtrs.	140					
	4cX6 sq mm	Mtrs.	85					
	4cX4 sq mm	Mtrs.	40					

Terminations								
79	Supply , store, installation , testing & commissioning of following Al cables end-terminations using medium brass cable gland including gland earthing as per IS3043:87 of adequate size. Vendor shall consider Single compression glands - for cables of size below 185 sq.mm. Double compression glands - for cables of size 185 sq.mm and above. Double compression glands - single core cables - 400 sq.mm and above. Compressed terminating Lugs - Aluminium lugs for aluminium conductor cables.							
	4CX16Sqmm	nos	2					
	4cX10 sq mm	nos	12					
	4cX6 sq mm	nos	8					
	4cX4 sq mm	nos	4					
EARTHING								
80	Supplying & laying / fixing of earthing conductor of copper strips/wires including crimping of strips/ wires using appropriate legs, including necessary earthing trenches, jointing as per IS:3043/87 in trenches, walls, pulling through pipes, etc							
a)	Copper wire No. 10 SWG	Mtrs.	600					
b)	Earth benches (using 25X3mm cu strip)	nos	6					
POINT WIRING								
81	Supply, installation, testing and commissioning of lights, fan and plug points including testing and commissioning in concealed conduit system from control board to luminaries / Fans / Plug points using single core PVC insulated stranded 1.1kV grade FRLS copper wire of size 1.5 sq.mm along with same size pvc insulated wire as earth continuity conductor through FR PVC rigid (medium) conduit with necessary bends, junction boxes, (necessary bushes shall be provided at conduit ends), and 6A modular type switches on metal boxes complete with ceiling roses, plugs etc. The rate shall include chipping walls, concrete floors, beams etc. and making good finish with cement mortar, plugs etc.							
82	One Light controlled by 6A switch.	point	63					
83	Two light controlled by 6 A switch.	point	10					
84	Three light controlled by 6 A switch.	point	9					
85	Four light controlled by 6 A switch.	point	1					
86	Five light controlled by 6 A switch.	point	5					
87	6 light controlled by 6 A switch.	point	RO					
88	10 light controlled by 6 A switch.	point	RO					
89	One light controlled by 2 nos.6A 2 way switch.	point	RO					
90	Ceiling fan point controlled by one 6A switch & 100W step type fan regulator	nos	5					

LIGHT FIXTURES								
91	Installation, Testing and Commissioning of Recessed MOUNTED LED LIGHT FIXTURE , 30W 2FT x 2FT, 5700 k, WITH GLARE RATIO 19-22 (LT - F02857RI00 FULL LIT ULTRA 28W OR EQUIVALENT) (R3 Fixtures as per Lighting Layout).Rate shall be inclusive of necessary support materials for hanging the light fixture with SS chain or equivalent.(Fixtures supplied by client.)	nos	31					
92	Installation, Testing and Commissioning of Recessed MOUNTED LED LIGHT FIXTURE , 36W 2FT x 2FT, 5700 k, WITH GLARE RATIO 19-22 CLEAN ROOM FIXTURE(RC as per lighting layout)(Fixtures supplied by client.)	nos	24					
93	Installation Ultra violet tube lights in each OT for sterilization-20W FIXTURE	nos	8					
94	Installation, Testing and Commissioning of Recessed mounted LED Light Fixture 28W,5700 k,CRI-80. (LT - S02857RP00 SPARKLE Ultra OR EQUIVALENT) (R6 Fixtures as per Lighting Layout).Rate shall be inclusive of necessary support materials for hanging the light fixture with SS chain or equivalent.(Fixtures supplied by client.)	nos	16					
95	Installation, Testing and Commissioning of Recessed mounted LED Light Fixture 12W,5700 k,CRI-80. (LT - D012CTR000 OR EQUIVALENT)(L1& L2 Fixtures as per Lighting Layout)(Fixtures supplied by client.)	nos	65					
96	Installation, Testing and Commissioning of Recess Mounted LED LIGHT FIXTURE, 18W 1FT x 1FT, 5700 k, CRI-80, LIGHT FITTING (LT - DO18CTR000 DICE 18W OR EQUIVALENT) (R1 Fixtures as per Lighting Layout).Rate shall be inclusive of necessary support materials for hanging the light fixture with SS chain or equivalent.(Fixtures supplied by client.)	nos	6					
97	Installation , Testing and Commissioning of Recessed 6W LED SPOT LIGHT LUMINIRE, (L4 Fixtures as per Lighting Layout)(Fixtures supplied by client.)	nos	RO					
98	Supply, Installation, testing and commissioning of wall fan (1400mm) using suspension shackle, down rod etc., giving connection using suitable length of Cu. flexible wire, including earthing etc. complete.(Fixtures supplied by the client.)	nos	5					
PANEL								
99	Supply, Installation Testing and Commissioning of 63A TPN SFU for existing 125/100A Fuse panel(ssb 4.1)	nos	7					
100	Supply, Installation Testing and Commissioning of 100A TPN SFU for existing 125A Fuse panel(ssb 4.1)	nos	1					
101	Removal of existing 125A SFU and shifted to store, as instructed by project in charge	LS	1					
CABLE TRAYS AND RACEWAYS								
102	Supply and installation of Perforated GI cable trays, fabricated out of 1.6 mm thick GI Sheet with suitable bends, off sets wherever required as per drawing, but without cover. of all supporting brackets made of MS angle, anchor fasteners, screws, bolts, nuts etc, including painting of cable trays. The cable tray and accessories should be FACTORY MADE. The rate shall include the breaking concrete/ brick wall & making good finish with cement mortar							
	Supports with 25x25x6 Angle with 8mm threaded rod and anchor fastener of suitable length.							

a)	300X50 mm wide	meter	RO					
b)	200X50 mm wide	meter	65					
c)	150X50 mm wide	meter	RO					
TOTAL WITHOUT TAX								
TAX @ 18 %								
GRAND TOTAL								

Tenderers are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders as to the nature of constitution already existing (so far as in practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their tender. A tenderer shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charges consequent on any misunderstanding or otherwise shall be allowed. The tenderer shall be responsible for arranging and maintaining at own cost all materials, tools and plants, facilities for workers and all other services required for the execution of the work unless otherwise specifically provided for in the contract documents. Submission of tender by a tenderer implies that he has read this notice and all other contract documents and has made himself aware of the scope and specification of the work to be done and of conditions and rates at which stores, tools and plants etc. if any will be issued to him by the NSMIMS and local conditions and other factors having a bearing on the execution of the work. The tenderer must also study the neighbourhood, rules and regulations for building as well as the area where it is situated.

In case of items not covered by the above specification the work should be carried out as per the direction of Officer-in-charge.

Approval of the Officer-in-Charge shall be taken well in advance for the materials to be used in the work by the contractor.

All repairs and patch work shall be neatly carried out to match with the original finish and to the entire satisfaction of Officer-in-Charge.

The contractor has to make his own arrangement for stores and watch and ward and no extra claim for this will be entertained. The contractor has to make his own arrangement at his own cost for all the general and special T & P.

SIGNATURE OF THE TENDERER

NS OT&CSSD RENOVATION WORK**MAKE OF MATERIALS**

Sl No	Description of Materials	Proposed make
1	DB,MCB,RCBO	Legrand,ABB,Schneider
2	Light Fixtures	Wipro,Philips,Osram
3	Sockets outlets and switches	Legrand myris,Wipro Nowa
4	PVC conduits	Precision or equivalent
5	Perforated cable tray	OBO Betterman,Fixotech
6	LT Cables	Polycab,Gloster or Equivalent
7	PVC insulated FRLS copper wires	Polycab,RR cables or equivalent
8	Glands	Prabhath,janisons,Dowells