

BOQ FOR ELECTRIFICATION WORKS IN HISTOPATHOLOGY LAB



N.S. MEMORIAL INSTITUTE OF MEDICAL SCIENCES

PALATHARA, KOLLAM 691020

www.nshospital.org

Phone No. 0474 – 2723199, 2720000

Mobile: 9446267041,9446170006

E-mail: nsmimskollam@gmail.com

Sealed quotations are invited by the Secretary, Kollam District Co operative Hospital Society Q952for the electrifications works in Histopathology lab, Ayathil, Kollam

Eligibility:

- Contractors who have sufficient experience of having successfully carried out similar works in Government Offices/Residential buildings/Office buildings/Pvt. buildings during the last three years are eligible to participate in the bidding.
- 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.

Submission of bid:

The tender 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..

Last date for submission:

The last date for receipt of the bid at our office is **10.03.2023, 3.00 P.M.** The bid submitted beyond the above date and time shall not be considered for the bidding and shall be rejected.

BOQ FOR ELECTRICAL WORKS IN NS HISTOPATHOLOGY LAB

Sl. No.	Description	Unit	Qty	Rate		Total Amount	
				Supply	Labour	Supply	Labour
1	15 kVA DG Set	Each	1	-----		-----	
	Supply, Installation & Commissioning of 15kVA D.G. set Comprising of Suitable Liquid Cooled Engine developing rated BHP at 1500RPM, Close coupled with SF Alternator developing 15kVA at 0.8 PF, 415V, 50Hz. assembled in a common base frame with Battery, fuel tank, Inbuilt pads, Residential Silencer with other standard accessories along with Manual control panel and Acoustic enclosure as per latest CPCB-2 Norms Make: Cummins/Kirloskar (Generaror with manual control panel & acoustic enclosure shall be supplied by the client)						
2	5 kVA UPS	Each	1	-----		-----	
	Supply & Installation of Microtek inverter 5kVA with 4nos. of Exide make 100Ah flat type battery & trolley (UPS shall be supplied by the client)						
3	ATS Panel	Each	1				
	Fabrication, supply, erection, testing and commissioning of cubicle type, dust and vermin proof, Wall mounted/Floor mounted, front operated MV panel board made out of 16 SWG thick CRCA sheet fully compartmentalized complete with hinged and earthed front doors with name plate, danger notice board, heavy duty rubber gaskets, removable gland plates at the top made out of 3mm thick sheet steel. All opening parts of the panel shall be sealable. Provide the provision for CTs and 3phase Multi Function Meter, 2 sets of RYB phase indicating LED lamps with control fuses and switches, CBCT, ELR etc. as required & battery charger						
	Incoming & Outgoing Switches						
	63A TPN MCCB with Rotary Handle-1nos.						
	63A TPN Isolator with Rotary Handle-1nos.						
	63A TPN ATS with Rotary Handle-1nos.						
	63A TPN SFU with 3nos. of 50A HRC fuse & Rotary Handle - 1no.						
	DBs, Enclosure Boxes, MCBs and Accessories						
4	MCB DBs/Enclosure Boxes suitable for mounting on wall fabricated out of 16 gauge CRCA sheet powder coated with approved colour,with lockable front door,complete and having following components and copper busbars,cable entry cum gland box as required.TPN switches shall be supplied with equally rated neutral links.						
a)	8 Way Vertical TPN MCCB DB	each	1				

b)	8 Way Horizontal TPN DB	each	3				
c)	8 Way SPN DB	each	3				
d)	4P Metallic Enclosure Box	each	2				
e)	2P Metallic Enclosure Box	each	2				
5	Supplying and fixing MCCBs, RCCBs, MCBs, Isolators etc. suitable for inductive load of following poles in the existing MCCB/MCB DBs complete with connections, testing and commissioning etc. rating 240/415 volts as required.						
a)	63A TPN MCCB - DU type	each	1				
b)	6-40A TP MCB, "C" curve	each	8				
c)	40A, 100mA TPN RCCB	each	2				
d)	40A, TPN Isolator	each	2				
e)	6-32A SP MCB, "C" curve	each	114				
g)	40A, 30mA TPN RCCB	each	1				
h)	20/25/32/40A TPN Isolator	each	3				
i)	20/25/32/40A DP Isolator	each	2				
j)	6-32A SP MCB, "D" curve	each	12				
k)	MCB Blank Plates	each	20				
	Cables						
6	Supply, Conveyance & Installation of the following size 1.1kV grade XLPE insulated PVC sheathed, armoured Aluminium conductor power cable (A2XFY) conforming to IS ammended upto date in cable tray or on concrete wall.						
a)	4C x 16 Sq.mm.	Mtrs	0				
b)	4C x 10 Sq.mm.	Mtrs	89				
c)	4C x 6 Sq.mm.	Mtrs	15				
d)	4C x 4 Sq.mm.	Mtrs	15				
e)	2C x 4 Sq.mm.	Mtrs	18				
	Armoured Copper Control cable						
f)	4C x 1.5 Sq.mm.	Mtrs	15				
	End Terminations						
7	Supply and Conveyance of end termination kit with brass double compression gland, earth clip and aluminum lugs for following size of PVC insulated and PVC sheathed/ XLPE aluminum conductor cable of 1.1kV Grade as required.						
a)	4C x 16 Sq.mm.	Each	0				
b)	4C x 10 Sq.mm.	Each	4				
c)	4C x 6 Sq.mm.	Each	6				
d)	4C x 4 Sq.mm.	Each	2				
e)	2C x 4 Sq.mm.	Each	12				
	End Termination for Armoured Copper Control cable						

f)	4C x 1.5 Sq.mm.	Each	2				
Earthing							
8	Supply, Conveyance & Installation of Earthing with G.I. earth pipe of 2 metre long and 1.5inch dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. including earthing compound as required.	Set	5				
9	Supply, Conveyance & fixing copper wire on surface/recess for loop earthing along with existing surface/ recessed conduit as required.						
a)	8 SWG copper wire	Mtrs	30				
b)	10 SWG copper wire	Mtrs	120				
10	Copper Earth bench by using 25x3 Copper Strip	each	3				
Wiring							
11	Wiring for Light point/Fan point/Exhaust fan point/Call bell point using 1.0 Sqmm (including earth) FR PVC insulated copper conductor standard cable, consealed, supply and fixing ISI marked PVC medium grade conduit (rigid / flexible) complete with Modular type Switch with non metallic inner and outer cover, suitable GI metal boxes, saddles, junction boxes, bends, other accessories, ceiling roses, etc. complete upto 6 mtrs.						
a)	Single Point wiring	Set	18				
b)	Two Light Controlled by One Switch	Set	5				
c)	Three Light Controlled by One Switch	Set	4				
d)	Four Light Controlled by One Switch	Set	4				
e)	Staircase Light Point Wiring	Set	2				
12	Wiring using FR PVC Insulated copper conductor, stranded cable, consealed/open, supply and fixing ISI marked PVC medium grade conduit (rigid /flexible) as required.						
a)	2x4+1x2.5 Sq.mm.	Mtrs	75				
b)	2x2.5+1x1.5 Sq.mm.	Mtrs	186				
c)	2x1.5+1x1.0 Sq.mm.	Mtrs	157				
Light & Fan Fittings (Installation Only)							
13	Installation, testing and commissioning of down surface/Gypsum type light (Round) fixture complete with lamp, ballast, starter, Wall Fan, Exhaust Fan fittings etc& complete set with all accessories ON WALL or CEILING including connections with 3 x 1.0 Sqmm PVC Insulated copper conductor cable.						
a)	12W LED down surface/Gypsum light (Round) fixture	Nos.	10				

b)	9W LED down surface/Gypsom light (Round) fixture	Nos.	3				
c)	LED Mirror Fixture	Nos.	2				
d)	LED Tube	Nos.	10				
e)	Ceiling Fan (BLDC)	Nos.	8				
f)	Wall Fan of 450mm sweep	Nos.	6				
g)	Exhaust Fan of 305mm sweep (Square)	Nos.	5				
14	Charges for cutting holes suitable for accomodating Exhaust Fans upto 305mm sweep including plastering colour washing etc. as required.	each	3				
	Switches & Sockets						
15	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate, GI box etc. as required.						
a)	5/6 amps switch	each	95				
b)	5/6 amp socket outlet.	each	95				
c)	15/16 amps switch	each	25				
d)	15/16 amp socket outlet.	each	25				
e)	Single module Dummy Plate	each	100				
16	Supplying and fixing following size / modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required.						
a)	4 Module (100mm X 75mm)	each	25				
b)	6 Module (200mmX75mm)	each	80				
	Exhaust Pipe						
17	Supply, Conveyance & Installation of the following sizes of B class MS pipe conforming to relevant IS specifications complete with heavy gauge specials such as bends, flanges etc welded and fixed at appropriate locations, providing cork sheet in between the flanges at the joints, bolting the flanges together, painting the pipe, flange etc with 2 coats of heat resistant paint suitable for outdoor applications, fixing the pipe firmly with fabricated structure/ wall/ any other mechanical support etc as required. (Exclusive of rate for mechanical support)						
a)	2.5" MS pipe	Mtrs	12				
18	Supply, Conveyances and installation of MS angle for providing support for exhaust pipe line by providing proper Scaffolding supports Basement Reinforcement included	kg	100				
	Miscellaneous						
19	Supply, fabrication & installation of GI Tray specifically for Outdoor Application having min 72 microns of Zinc coating for Ladder Cable Trays with Powder coated Over Head Hanger & Cantilever Support with suitable mountingachourfastners&						

	mounting accessories as required confirming to IEC-61537. (Cladding not included)							
a)	200x75mm	Mtrs	30					
20	Supply and Fixing of following sizes of medium gauge PVC Conduit along with accessories in surface using appropriate clamps.							
a)	25mm PVC Conduit	Mtrs	40					
b)	20mm PVC Conduit	Mtrs	60					
21	Supply and providing 3 mm thick fire retardant insulating rubber mat as per IS 15652/2006 to withstand 11 KV dielectric strength.	Each	1					
22	Supply and providing 6 Kg. Dry Chemical Powder type Fire Extinguisher with hose and clamps including fixing it to wall as required.	Each	2					
23	Excavation for foundation in soft soil including dressing of sides and ramming of bottoms, lift from the pit including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 metres.	CUM	1.6					
24	Providing and laying in position cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) in foundation of pump, DG set etc including form work etc as required.	CUM	2.5					
25	Providing 15mm thick cement plaster of mix 1:4 (1 cement : 4 fine sand) at all levels.	SQM	11					
26	DG unloading works from the vehicle and leading towards the foundation top upto the level.	LS	1					
27	Design Electrical system & Preparation of drawings, documents, liaison work, etc. for getting initial/final NOC from EB/Electrical Inspectorate and other statutory agencies. (Contractor shall pay all the statutory fees initially. However, the same will be reimbursed on submission of supporting documents).	Ls	1					
TOTAL SUPPLY/LABOUR								
Total Taxable value								
SGST (9%)								
CGST (9%)								
GRAND TOTAL								

Terms and conditions of Bid:

1. Rate / Price

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.

- The bid submitted with a price variation/escalation clause will be treated as non-responsive and rejected.
- 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.
- 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.
- 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.
- 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.
- The bidder should quote the rate as specified in the scope of work. The bids submitted other than in the specified scope of work at Annexure-II shall be summarily rejected.

2. Execution of work:

- Time period of completion: The successful bidder shall execute and complete the work as per specification/Scope of work mentioned in Annexure-II to the satisfaction of the Officer In-Charge within a period of **6 weeks** from the date of award of work.
- 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 document.
- 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.
- No extra cost shall be given for transportation; cost of labourers, insurance etc., as the rates quoted is all inclusive price
- The contractor shall have to bring all the supporting materials for carrying out the above work.

3. 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.

4. 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.

5. 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 in-charge.

6. Payment terms

A part payment up to 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.

7. Completion Certificate

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

10. 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.

11. Right to accept or reject quotation

(i) The right of acceptance of quotation 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.

12. 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.

13. 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.

14. 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 is duly accepted.

END OF THE DOCUMENT