



INSTITUTE OF PHYSICS

BHUBANESWAR-751 005

NOTICE INVITING TENDER

Tender No. NIT/IOP/70/2023-24


1.0 Tenders in Single Bid System are invited by the Director, Institute of Physics, Bhubaneswar- 751 005 from reputed contractors for the following work:

Name of the work	:	Renovation of Kitchen and Dining Area in Guest House in IoP Campus
Estimated cost(Excluding GST)	:	Rs.3,34,659/- (Rupees Three Lakh Thirty Four Thousand Six Hundred Fifty Nine only)
Earnest Money Deposit (EMD)	:	Rs.6,700/- (Rupees Six thousand seven hundred only)
Period of Completion of the work	:	40 days

2.0 Important dates:

Last Date of receiving of tender Document	:	26.10.2023
Opening of tender.	:	27.10.2023

Note: In case the last date of sale and/or the date of receipt and opening of tender is declared as a holiday, the respective date shall be treated as postponed to the next working day.


रेजिस्ट्रार/REGISTRAR
भौतिकी संस्थान/INSTITUTE OF PHYSICS
भुवनेश्वर/BHUBANESWAR

INSTITUTE OF PHYSICS
BHUBANESWAR
GENERAL CONDITIONS

Name of the Work: **Renovation of Kitchen and Dining Area in Guest House in IoP Campus.**

- 1) The estimated cost of the above work is **Rs.3,34,659/-** (Rupees Three Lakh Thirty Four Thousand Six Hundred Fifty Nine only)
- 2) Tenderers are advised to visit the work spot and understand the scope the work clearly before submitting the tender. No claim of any kind shall be entertained on account of ignorance in this respect.
- 3) The contractors should have adequate and effective organization for communications with the Engineer-in-charge, Institute of Physics, Bhubaneswar.
- 4) Tender should be signed by persons duly authorized to do so and if required such authority (Power of attorney etc) shall be furnished to the Director.
- 5) Neither the security deposit nor the retention money shall bear any interest.
- 6) The tenders must be filled in ink and in a legible way. Over writing should be avoided. All corrections must be attested by the tenderer with his initials before submission of the tender.
- 7) Tenders proposing any alterations in the work or specifications or in the form of tender or in any other conditions shall be summarily rejected.
- 8) This is an item rate tender. Payment will be made to the Contractor as per actual measurement.
- 9) The rate should be filled in figure and in words. The amount and the totals should also be drawn.
- 10) If the rate in figure differs from the rate in words then the rate corresponding to the calculated amount shall be taken as correct. If the calculated amount does not tally with any of the two rates then the lower of the two rates shall be accepted and the amount shall be corrected.
- 11) GST or any other tax as applicable as per the rule shall be payable by the contractor.

- 12) A sum @ 5% of the gross amount of the bill shall be recovered from your RA/ Final bill towards security deposit. The security deposit will be refunded within 6 months after the period of warranty (i.e. the defect liability period) is over.
- 13) Payment will be made as per actual measurement submitted by you after checking the measurement physically by the Engineer-in-charge and payment of the bills will be made within 15 days of the checking of the bills by the Engineer-in-charge.
- 14) The total time allowed for the completion of the work is strictly for 30 days from the date of commencement of work.
- 15) Tax as applicable will be deducted at source on all the payments.
- 16) The rates quoted by you will remain firm through out the currency of contract.
- 17) On the recommendation of the Engineer-in-charge based on the workmanship, quantity and quality of work done the bill will be passed for payment.
- 18) The acceptance of tender is at the discretion of the Director, Institute of Physics, Bhubaneswar. The Director does not bind himself to accept the lowest tender and reserve the authority to reject any or all the tenders without assigning any reason and reserve the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rates quoted. All tenders in which any of the prescribed conditions are not fulfilled or are incomplete in any respect are liable for rejection.
- 19) The IOP does not undertake any responsibility regarding any instructions issued verbally in respect of this tender. All questions relating to the tender shall be referred to the Director in writing.
- 20) The amounts to be calculated against various items shall be in terms of whole rupees, less than fifty paise being ignored and fifty paise and above being rounded to the next rupees.

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- 1) General: The Contractor shall forthwith in a good substantial and workman like manner, to the satisfaction of the Institute, build and complete the work at Bhubaneswar.

- 2) Date of completion: The Contractor shall actively prosecute the execution of completion of the work to the satisfaction of the Director. The work specified above shall be completed in all respects within 30 days from the date of commencement of work.
- 3) Materials: The Contractor shall provide at his own cost all materials specified in the bills of quantities (with exception of those otherwise mentioned in the specifications) and all labour, tools and plants scaffolding and other implements of every description necessary for execution and completion of the work. All materials to be supplied by the contractor shall be the best of their respective kinds and subject to approval by the Director.
- 4) Sub-Contractor: The Contractor shall not assign or sublet the contract for the work or any part thereof.
- 5) Removal of equipment: The Contractor shall, at his own expenses, within one week from the completion date, remove all tools, plants, scaffoldings, implements and unused materials from the site and leave the same in a clean and proper state, to the satisfaction of the Director.
- 6) Inspection of works: The Contractor shall allow the Engineer-in-charge to inspect and supervise the work during its progress.
- 7) Defective work & rejections: The Contractor shall within 24 hours of notice so to do forth with pull down and rebuild any part of the work which has not been erected, build or completed to the satisfaction of the Director or which is in the opinion of the Director, defective or not in accordance with the specification or the plans.
- 8) Alteration or Deviations: The Institute may at any time during the progress of the work by order in writing make any alteration in the original specifications or plans by way of addition, omission or other deviation whereupon the Contractors shall execute the work according to such alterations to the satisfaction of the Director.
- 9) Additions & Deductions: All additions and deductions to be made to or from amount of the contract price in respect of any such alteration in the specifications or plans shall be ascertained according to the rates specified in the bill of quantities (provided that if appropriate rates are therein specified, they shall be fixed by mutual agreement between the parties) and the difference of expenses occasioned by any such alteration shall be added to or

deducted from the contract price. No payment or allowance whatsoever shall be made to the Contractor for any work done or materials used without a previous order, in writing from the Director.

- 10) Measurement of work: The work as it proceeds will be measured net exposed measurements. The Contractors or his representative will accompany the Engineer-in-charge in order that they agree on the measurements. The measurement book can also be examined at the office of the Director before payment is made.
- 11) Precautions against accident: The contractor shall, at all times, take due and proper precautions against accidents or injury to the work or any person or property, and shall indemnify the company for all motions suits or any damage or compensation payable in consequence of any accident or injury sustained by any workman or other person whether in the employment of the Contractor or not.
- 12) Failure to execute the work: If the Contractor fails to execute and complete the work otherwise fail to comply with any of the terms and conditions of this order, then the Institute shall be at liberty without avoiding this order forthwith, to require the Contractor to remove his workmen from the site and to take the work out of the hands of the Contractor and to employ any other person to execute and use all materials, tools, scaffolding, plants, implements and things on or about the work, and thereafter neither the Contractor nor his workman shall have any power to intervene with any person employed by the Institute.

All expenses and damages to property incurred by the Institute, consequent on the employment and certified by Director and shall be paid to the Institute by the Contractor or deducted by the Institute from any money due to or to become due to the Contractor.

- 13) Serving Notices: Any notice to the Contractor under this order may be served personally or by registered post addressed to the Contractor last known place of address.
- 14) Discrepancies: Should there be any discrepancies between the plans, specifications and bills of quantities the same shall be immediately referred to the Director who shall decide what shall be followed.
- 15) The work will be taken up in hands within seven days of the award of the work and shall be completed in all respect within 30 days from the date of start.

16) Extension of time for completion may be allowed if the Director consider that the reasons for the delay in completion of the work is beyond the control of the Contractor.

17) Liquidity damages: 0.5% per week subject to maximum of 10%.

18) The tender should accompany with the following documents at the time of submission.

a) Proof of registration with Govt./Semi Govt. organizations like CPWD, State PWD/Railway etc. in appropriate class and copies of PAN Card, GST etc.

b) The agencies must have satisfactory executed similar works in Govt Deptts/PSU/Reputed Pvt sector /MNCs three works each of value 40% of estimated cost or two works each of 60% of estimated cost or one work of 80% of estimated cost during last 5 years

In case of absence of any of the documents listed above the tender papers will not be entertained.

Signature of the tenderer with seal

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1	Defects Liability	= 6 months
2.	Period of final measurement and valuation	= Within 15 days of submission of the bill by the contractor
3.	Date of commencement	= Within 7 days from the date of issue of the work

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| 4. | Agreed liquidated damages | = | order.
0.5% per day subject to maximum of 10% |
| 5. | Minimum value of work for interim payment. | = | No Interim payment is allowed. |
| 6. | Security deposit or Retention money | | 5 % of the value of work order should be deposited upon award of the contract .Security Deposit will be refunded after successful completion of period of 6 months. |
| 7. | Payment | = | Within 15 days of submission of bill. |
| 8. | Completion Period | = | Within 30 days of commencement of the work. |

Signature of the tenderer with seal

SCHEDULE OF QUANTITIES

Name of the Work: Repair/Maintenance of Dining and kitchen Area in Guest House in IoP Campus

Sl. No.	Description of Items	Qty	Unit	Unit Price		Total amount(Rs.)
				In figure	In words	
	(A) CIVIL WORKS:					
1	Dismantling G.I. pipes (external work/Internal work) including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means including stacking of pipes within 50 metres lead as per direction of Engineer-in-charge :	12.40	Mtr			
2	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	6.15	SQM			
3	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	6.10	CUM			
4	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.					
	For thickness of tiles 10 mm to 25 mm	41.00	SQM			
5	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :					
	Cement mortar 1:4 (1 cement : 4 coarse sand)	0.28	CUM			
6	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.					
	Granite stone slab colour black, Cherry/Ruby red					
	Area of slab upto 0.50 sqm	3.20	SQM			
7	Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.					
	Granite Work	10.20	RMT			
8	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.(Make-Kajaria, Johnson,NITCO, SOMANY, VARMORA,Orient Bell, RAK)	41.00	SQM			

9	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :One or more coats on old work	15.50	SQM			
10	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade:One or more coats on old work	360.00	SQM			
11	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	10.00	SQM			
12	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	360.00	SQM			
13	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.Internal work - Exposed on wall					
	20 mm nominal dia Pipes	8.00	MTR			
	32 mm dia external pipe	12.40	MTR			
14	Mirror polishing on marble work/Granite work/stone work / mosaic work where ever required to give high gloss finish complete.	94.00	SQM			
15	Providing and fixing brass curtain rods of wall thickness 1.25 mm with two brass brackets fixed with brass screws and wooden plugs etc. wherever necessary complete.20 mm diameter.	7.10	Mtr			
16	Supplying ,providing and fixing window curatins of good quality fabric material with 100% Cotton of Type Eyelet (Ring) & Gentle Washable.	20.00	Sqm			
17	CEMENT PLASTER (IN FINE SAND)12 mm cement plaster of mix :1:4 (1 cement: 4 fine sand)	6.15	SQM			
18	French spirit polishing :Two or more coats on new works including a coat of wood filler	52.00	SQM			
19	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately).Powder coated aluminium (minimum thickness of powder coating 50 micron)	72.00	KG			

20	Providing and fixing machine moulded aluminium covering of approved pattern & design, made out of machine cut aluminium sheet and machine holed for receiving dash fastener, over expansion joints on vertical surfaces/ceiling floors, the fixing on plate in one row on one side of joint only shall be done with stainless steel dash fasteners of 8 mm dia and 75 mm long bolt including providing aluminium washers 2 mm thick & 15 mm dia , at a staggered pitch of 200mm centre to centre including drilling holes in the receiving surface and providing expandable plastic sleeves in holes etc. complete as per direction of Engineer-in-charge. Powder coated aluminium sheet 2.5mm thick (minimum thickness of powder coating 50 micron)	40.00	KG			
21	Shampo Cleaning of single seater chair	34.00	Each			
	(B) ELECTRICAL WORKS					
22	Concealed wiring in PVC conduit: Supply Installation, testing & commissioning of 1100V FRLS grade PVC insulated multi stranded copper conductor wires, for light point/ fan point/ exhaust fan point/ call bell point, in surface / recessed medium class PVC conduit(25mm to 40mm)/ Flexible Nylon conduit, with, suitable size GI junction box and earthing the point with FR PVC insulated copper conductor single core cable etc as required, as per IB/IS specification, on ceiling/ concrete or brick wall at a minimum depth of 3inch from the surface, complete with all accessories, bends, Tees, suitable pull boxes/ junction boxes of suitable size as per the site condition wherever required & with necessary leads at both ends by approved copper lug, complete as per the instructions of Engineer-in charge. Note: 1. Connection shall be done with crimped type tinned copper lugs and washers. 2. Cutting of concrete/ Brick wall, ceiling etc are to be done properly using suitable cutting machine without damaging periphery area for laying of conduits & fixing of switch boards, DBs, JB's etc. 3. After laying of conduits, and fixing of switch boxes, JB's etc the cutting area has to be repaired good to finish as like as prior to cutting of the same. 4. All PVC insulated copper conductor FRLS grade shall be ISI marked. 5. Make of wires: Finolex/ L&T or approved equivalent of the same.					
22.1	01 nos. of 04 Sqmm wires in suitable PVC conduit	60.00	Mtr			
22.2	01 nos. of 1.5 Sqmm wires in suitable PVC conduit	45.00	Mtr			

23	<p>OUTLET SWITCH & SOCKET BOXES: Fabrication, supply, installation, Testing and commissioning duly concealed in concrete/brick wall/Ceiling of outlet switch boards made out of 16 SWG thick galvanized MS sheet with top cover 3mm thick Bakelite Hylam (Preferably of National make, white color) laminated sheet duly fixed by SS screws. Necessary wiring inside the board has to be carried out using suitable copper PVC insulated single core flexible wire. One suitable nut and bolt has to be provided on the side wall of the board for earth connection. All complete as per the instructions of EIC-IOP.</p> <p>Note: 1. All Switches, Sockets, ceiling rose & Angle holder should be of Anchor (Model-Penta) make or approved equivalent of the same. 2. All fan regulators are to be electronic stepped type (5A socket type) and make of the same is to be Anchor or approved equivalent of the same. The 32A DP Switch is to be of Anchor/ Cona make or approved equivalent of the same. 3. All wires to be used should be of Finolex/ L&T make or approved equivalent of the same. 4. All terminals of the wires to be connected inside the board should be provided with suitable copper lugs/ sockets. 5. Sample of all materials is to be got approved from EIC, IOP before execution. 6. Nomenclature as required for each board is to be mentioned on the same.</p>					
23.1	The switch box will contain 01 no. of 15Amp, 250Volt Switch 01 no. of 15Amp, 250Volt Socket	1.00	No.			
23.2	The switch box will contain 01nos. of 5 Amp, 250Volt Switch	1.00	No.			
23.3	The switch box will contain 02 no. of 5Amp, 250Volt Switch 02 no. of 5Amp, 250Volt Socket	2.00	No.			
23.4	The switch box will contain 01 no. of 15Amp, 250Volt Socket 01 no. of 15Amp, 250Volt Plug Top	1.00	No.			
23.5	The switch box will contain 02 no. of 15Amp, 250Volt Switch 02 no. of 15Amp, 250Volt, 06 pin Socket	2.00	No.			
23.6	The switch box will contain 01 no. of 5Amp, 250Volt Socket	1.00	No.			
23.7	The switch box will contain 02 no. of 5Amp, 250Volt Switch	2.00	No.			
23.8	The switch box will contain 02 no. of 5Amp, 250Volt Socket	1.00	No.			
23.9	The switch box will contain 01nos. of 5 Amp, 250Volt Ceiling Rose	2.00	No.			

24	<p>MCB BOX: Fabrication, supply, installation, Testing and fixing on concrete/brick wall/ plywood partition of local control MCB box made out of 16 SWG thick galvanized MS sheet with top cover also galvanized MS sheet duly fixed by SS screws. Necessary cut outs to be provided on the top cover for the operating lever of the MCB and suitable size gland holes at two ends has to be made for the MS conduits/ Armored cables or The readymade factory made MCB boxes of make Legrand or approved equivalent. MCB shall be minimum of 10 KA breaking capacity. All complete as per the instructions of Engineer-in-charge- IOP Make: MCB of Legrand or approved equivalent of same. All input & output connection has to be provided with suitable sockets.</p>					
24.1	The MCB box with one no. 32A DP MCB	1.00	No.			
25	<p>LIGHT FIXURES: Supply, installation, testing commissioning of LED light fixtures and fittings complete with all accessories, LED tube / lamp etc. on surface of slab/ beam/ false ceiling by 2 numbers (minimum) of 6mm Anchor fasteners or on wall by means of 25 x 3mm GI strip bend to shape and with 2 nos. of wood screws, nylon plug etc. suitable supporting frame fixed with rag bolts grouted on the wall/ anchor fastener on the beam/ column & other fixing accessories etc., provision & connection with 01 sq.mm multi-stranded copper conductor PVC insulated FRLS grade wires/ 1.5sq.mm copper conductor PVC insulated FRLS grade earth wire etc. with the fixture from the existing point, all as per drawing, specifications & as per the instruction of EIC. Note: Sample fixture/ fitting shall be got approved from department with complete technical data.</p>					
25.1	LED Tube light Fitting/Batten suitable for single T8 LED Tube /1x18W LED Tube light with 01 nos. 18W, 250V, 50Hz, 04ft length, Cool White, LED Tube light. The LED Tube should be replaceable/ suitable for retrofit in old conventional fittings CG model no.ECO-DIJB12LT8-20 (For fitting/Batten) & Ultron-LT8-8-565-2 (For LED T8-Tube) or approved equivalent of the same.	8.00	No.			
26	<p>EXHAUST FAN: Supply, Installation, testing & commissioning of following size of exhaust fans, single phase complete with blades, motor, heavy duty, rustproof body & blades, scope includes supply of 3Core, copper 1.5 Sqmm, flexible chord of suitable length with 6A, 3 pin plug top, louvers, rag bolt/anchor fastener with necessary fixing arrangement painting as per specification drawing & as per the instructions of EIC-IOP. Make: Crompton Greaves, Model- Trans Air 300 mm or approved equivalent of the same</p>					
26.1	300 mm dia, 1380rpm, 70W, 250V, 50Hz, High velocity,	1.00	No.			

27	GEYSER: Supply, Installation, Testing & Commissioning of 25 ltr. 5 Star Rated Storage electric water heater/Geyser with Advanced 3 Level Safety relevant ISI marked 2/ 3KW, 25 liter capacity, superior grade stainless steel tank, Moulded PUF insulation for less energy consumption, Sleek & ABS body, Copper heating element, with safety devices like pressure relief Valve, Snap action automatic thermostat, thermal cut out, fusible plug and non-return device and reset knob, working on 230/ 250V single phase supply including MS supports fabricated out of 25 x 5 mm thick MS flat with 2 coat of red oxide and 2 coats of enamel paint fixed on wall with 3 no.s of no.10 nettle fold wood screw in wall with nylon/ Phil plug and all mounting accessories including connection with suitable lugs. The scope of work includes supply with 3 core x 4 Sqmm copper wire between geyser & connector box, 15A, 03pin, plug top and suitable C.P. brass pipe with nut bolts, coupling to the inlet and outlet of water heater and pipe line and all as per specifications, standards, drawings & instructions of EIC. Make: Crompton Greave, model-Arno Neo 25-L, Bajaj or approved equivalent of the same,	1.00	No.			
28	Chimney for Kitchen: Supply Installation testing and commissioning of Chimney for the Kitchen, The chimney should be of Baffle-Filter, Suction side Width – 90cm or more, Finish- Black Tempered Glass, Control – Touch + Gesture Control i.e. Chimney should be with motion sensing technology that enables easy operation by a simple wave of hand. With Touch Control, it should enable ease of operation with just one touch. Motor position inside chimney should be such that it should make clear path for smoke and air. Suction Power should be of 1500 m3/ hr. or more than that. 02 nos. of Lamps (Less than 02 watt) should be in the chimney focusing downwards to the cooking area. Warranty on the Chimney should be one year Comprehensive & 05 year on Motor or more than that from the date of installation. Make of the chimney should be of FABER-Primus-Plus-Energy TC-HC-BK-N90 or approved equivalent of the same Note: The scope of the job includes supply and installation of 20feet, 06” PVC pipe with three bends, one socket and one cowl of same size with necessary clamps etc. This is to be connected to the outlet of both the chimney.	2.00	No.			
Total amount(A+B)						
Rupees(In words)						