



NATIONAL CENTRE FOR EARTH SCIENCE STUDIES
 (Ministry of Earth Sciences, Govt. of India)
 P.B. No. 7250, Akkulam, Thiruvananthapuram -695011, Kerala.
Website: <https://www.ncess.gov.in/>

Renovation of room (114) for IRMS facility

Director, National Centre for Earth Science Studies, invites e-tenders from eligible contractors of CPWD and State PWDs, MES, Railways, Irrigation Department, KWA for the above work, in NCESS campus, Thiruvananthapuram.

Type of Tender	E-TENDER (OPEN)
E-Tender No.	EAM-WRK/5/2021-NCESS
Item Description	Renovation of room (114) for IRMS facility
Tender Type	Two Bid System: Tender should be submitted on the schedule to tender. (i) Techno-Commercial Bid and (ii) Financial Bid The Financial bid will be opened only of those firms, who will be found technically qualified after evaluation of their technical bids.
Mode of Submission	Online Mode
E-Tender Date	31.03.2021
Pre-Bid Meeting	07.04.2021 (Wednesday) 11Am in Director's conference room FF Administrative block
Last date of submission of E-Tender	26.04.2021 (Monday) before 3pm
Date & Time of Opening of Techno- Commercial bid	27.04.2021 (Tuesday) at 4pm
Date & Time of Opening of Financial Bid	Will be announced later
Estimated Value	Rs.987115.88 (INR Nine Lakh Eighty Seven Thousand One Hundred & Fifteen and Paise Eighty Eight Only)

TERMS AND CONDITIONS

1. The tenderer should see the document for details of the tender conditions and pre-qualification criteria in their own interest, in the website.
2. The Director, NCESS reserves the right to accept or reject all or any of the quotations.
3. The successful tenderer should execute an agreement with NCESS on a stamp paper worth Rs.200/-.
4. All statutory dues compliance legal and labour requirements and remittance are to be remitted by the contractor. TDS will be deducted as per rules.
5. A copy of pan card and ID proof details of contractor should also be provided. The contractor to whom the work is awarded should have valid income tax PAN number. Statutory deduction of Income Tax will be made from the bill.
6. Payment will be made against the bills, duly verified and certified by NCESS. Payment will be made only through PFMS/bank transfer.
7. No increase of rates or extension of time for work completion will be allowed.
8. No advance payment or part payment will be made.
9. It is mandatory to produce PAN and GST number.
10. The Estimated Value is inclusive of tax.

Senior Manager

IMPORTANT NOTE:

1. A copy of the CPWD/ PWD/ MES/ Railways/ Irrigation Department/ KWA valid license duly attested should be enclosed.
2. The bid document can be seen and downloaded from website <https://www.ncess.gov.in/>
3. The tender form and schedule in excel (BOQ) format should be downloaded and submitted through the e-procurement website - <https://eprocure.gov.in/eprocure/app>.
4. The other required forms (Annexure 1 to 5) should be submitted in PDF format by 'logging on' in the website <https://eprocure.gov.in/eprocure/app>.

Renovation of room 114

1. Registered contractors of PWD/Kerala Water Authority / Kerala State Electricity Board or Central Public works Department or MES or Railway for the work may submit the tenders.
2. The rate should be quoted in the specified BOQ file in excel format. The quoted rate shall be inclusive of all the operations contemplated in the specifications and tender schedules including II incidental work necessary for such operations such as scaffolding, etc. "The rates quoted shall be inclusive of GST".
3. NCESS does not undertake to construct or make available any approach road or other means of approach to the proposed work site and the bidder shall get acquainted with the available means of approaches to the proposed site and quote for the various items. NCESS shall not be liable for any claim raised later on the plea of non-availability or non-access to the site.
4. The contractor will examine the site condition and satisfy themselves of the availability of materials at nearby places, difficulties which may arise during execution etc. before submitting bids for the work.
5. The period for execution of the work will be **45 days**. Both NCESS and the firm can cancel the contract by giving one-month notice. If the cancellation is done by the firm or it is done by NCESS due to lack of proper service or misconduct on the part of the firm, the EMD/performance guarantee/security deposit will be forfeited.
6. The Selected bidder shall remit a performance guarantee equal to 5% of the contract amount to NCESS account.
7. He/she shall execute an agreement for the work in NCESS. Execution of agreement for works shall be made within 21 days from the date of receipt of Work Order.
8. In case of failure to execute the agreement within the above period, the offer of contract shall be cancelled, and suitable action will be taken.
9. The Contractor shall take over charge of the site within 10 days after execution of agreement and commence the work. If any loss to NCESS results in as a result of such measure due to the default of the bidder to pay the requisite deposit, sign contracts or take possession of the work, the same will be recovered from him.
10. The conditions stated herein are binding upon the contractor and shall be constructed as a preliminary Agreement between the successful bidder and NCESS.
11. The acceptance of the tender vests with the NCESS who does not undertake to accept the lowest or any particular tender.
12. Tenders not submitted in specified forms or submitted incomplete in any respect will be rejected.
13. Any further information necessary can be obtained at the office of the undersigned on all working days during office hours.
14. The work should be completed in all respects within 45 days from the date of execution of agreement.
15. **Liquidity Damage Clause:** In case of any damages and delay in completion of the work, liquidated damages at the rate of 0.5% of the work order per day of delay or part thereof, subject to a maximum of 5% of the work order shall be recovered from the vendor's bill/invoice.
16. The execution of an extra item of work and payment thereon will be based on the condition that there shall be an order in writing to execute the extra item of work duly signed by Director, NCESS before its commencement.
17. The Director or other sanctioning authority reserves the right to reject any tender or all the tenders without assigning any reason therefore.
18. Testing the quality of the materials will be done by the contractor at his cost.
19. The quality of materials used by the contractor should be ensured by the NCESS officers

- 20.The bidders should declare that they are not related to any employee of the NCESS who is in charge of or having control of the work. Relationship in this will be restricted to their father, mother, son, daughter, brother, sister, direct uncle, nephew, father-in-law, brother-in-law, mother-in-law, sister-in-law and first cousin of the officer concerned. If the above condition is found to have been contravened, the performance guarantee/security deposit will be forfeited and the contract entered into will stand cancelled.
- 21.The contractor will provide his own tools and store sheds to store his own materials and will be entirely responsible for the proper use and safe custody of the latter and also for any loss, damage, and theft, mishandling weathering or any cause whatsoever.
- 22.The responsibility for safe custody of materials at worksite and during transit will be vested with the contractor.
- 23.The contractor shall be responsible for the safety of the labour employed by him and he shall be liable to pay the necessary compensation in case of accidents.
- 24.The contractor will also be liable to abide by the fair wage clause condition.
- 25.The contractor shall be liable for all damages caused to public amenities such as Electric wires, Telephone cables, water mains and private property which should be repaired and restored with least delay.
- 26.The work should be executed with utmost caution and manholes, rain water collecting pit, gully trap and sewage lines should not be damaged.
- 27.The contractor shall make his own arrangements to extricate himself from any legal action instructed against him by other agencies.
- 28.Time is the essence of the contract. Undue and avoidable delay in the execution of the work will render the contractor liable to penalty.
- 29.Director reserves the right to terminate the contract at risk and cost of the contractor at any time in case of bad work, slow progress or violation of rules in other ways.
- 30.The contractor shall employ engineering personnel, one Engineering Diploma Holder.
- 31.Tenders which are not in conformity with this tender notice are liable to rejection.
- 32.This tender notice with the conditions stated herein will form part of the contract documents.
- 33.The entries in the tender schedule issued by the NCESS in no way to be corrected by the bidders and if the bidders have to note anything, they should note the same as a foot note in the bottom of the page. If any correction is made by the tenderer in the tender schedule, the tenders are likely to be rejected.
- 34.In the case of the percentage rate contract, the overall percentage rate quoted by the contractor shall not be varied on any account whatever and it shall hold good for all items done irrespective of variations in quantities. The contractor is bound to complete the work within the stipulated period as per the agreement.

SPECIAL CONDITIONS

1. All works shall be done in conformity with the specification and condition in the contract in force in NCESS. The rates quoted shall be inclusive once covering all the operation contemplated in the specification and tender schedule and all incidental work necessary for such operations such as form work, scaffolding and finally clearing away all rubbish, surplus materials, plants etc. The rates quoted shall be inclusive of all tax.
2. The rates quoted by the contractor for the various items shall be inclusive of all tools and plants required for the proper execution of work and all other incidental charges and separate claim for these will not be entertained under any circumstances.
3. The quantities shown in the schedule are only approximate and are subject to variations and the contractor is bound to do additional quantities of work if found necessary at his quoted rates up to 25% above estimate quantities.
4. The contractor has to quote for the specification and unit noted in the schedule. No correction of specification unit or quantity is admissible and if they make any correction in the specification, etc., the same will be rejected. If they have to note anything, they shall note the same as a foot note at the bottom of the page.
5. The contractor should produce the declaration in the form attached.

6. The contractor is bound to carry out items of works which are not expressly or impliedly described in the tender schedule, plans, specifications and agreement but which are found necessary for the proper completion of the work during execution.
7. It will be the responsibility of the contractor to obtain necessary land for stacking the materials for arranging the work.
8. Metal of the required sizes alone should be brought to the site of the work. Metal should be stacked on one side of the road only and in such a way as not to cause any hazards to traffic.
9. Sand supplied should be clean, sharp and gritty to the touch, free from clay and other impurities and obtained from running water courses.
11. The moulds, shuttering etc., required for the works should be made by the contractor and got approved by the NCESS officers at site before use.
12. The contractor alone is responsible for the safety of his labourers and damages.
13. It shall be the contractor's responsibility to protect the public and his employees against accident from any cause during execution of the work
14. The contractor shall be liable for any loss caused to the NCESS on account of the above work including any that may arise due to no-fulfillment of the contract.
15. The work shall be completed in all respects and also at the rate of progress within the time limit and stipulations in the Notice inviting tender, failing which the contractor is liable to be fined.
16. Defects, if any noticed within 12 months from the date of completion of the work, it will be got rectified by the contractor, in default of which this will be attended by the department and the cost made good from the contractor.
17. All sums due to the NCESS under or by virtue of this contract shall be recoverable first from the security furnished by the contract and if the same is found insufficient, such deficit amount shall be recoverable under the provisions of the Revenue Recovery Act.
18. The contractor agrees that before final payment shall be made on the contract, he will sign and deliver to the Director, NCESS in the measurement book a valid release and discharge from any and all claims and demands whatsoever for all matters arising out or connected with the contract, provided that nothing in this clause shall discharge or release the contractor from his liabilities under the contract. The final measurements, if any, of NCESS shall be final, conclusive and binding on the contractor.
19. The tender notice and form of notice inviting tender shall form part of the Agreement.
20. All other conditions and specifications of contract are the same as those current in NCESS.
21. From the bill, 2.5% of the bill amount will be deducted as security deposit. The security deposit of Contractors for work will be refunded after one year from the date of completion of works as certified by the agreement authority.
22. Conditional bids will be summarily rejected and EMD forfeited. Also each bidder shall furnish a certificate to the effect that no condition is enclosed along with the bid.
23. Indian Standard Specifications shall be followed in case of all the materials used, workman ship and other condition and requirements of the contract.
24. Director, NCESS will have full powers to engage other workmen on the premises to execute fittings or carryout works not included in the contract and the contractor shall afford reasonable facility for the same.
25. No claim will be entertained by the NCESS on account of any increase in railway or road freight cost of all building materials and other materials like petrol, diesels, lubricants etc. and for any increase in the wages of labour increase in rates of sale tax etc. during the course of construction.
26. Any defects which may appear within 12 months from the completion of the work shall be made good by the contractor at his own cost.
27. The dismantled materials if any should be disposed of to the site marked from the office in the presence of the staff of EA&M section of NCESS.
28. On completion of the work, the contractor shall clear away and remove from the site all construction surplus materials debris and temporary works of every kind and leave the whole of the site and working area in clear condition to the satisfaction of NCESS. In the event of the failure of the contractor to comply with those directions within seven days after receipt of a notice to that effect from NCESS, such clearness may be made by the NCESS at the expense of the contractor.
29. The work shall be executed only through licensed workers.

FAIR WAGE

1. The contractor shall pay not less than fair wages to labourers engaged by him on the work:
2. Director shall have the right to deduct from the moneys due to the contractor and any sum required of estimated to be required for making good the loss suffered by a worker or workers by reasons of nonfulfillment of the conditions of the contract for the benefit of the works, nonpayment of wages which are not justified by their terms of the contract or non-observance of the regulations.
3. The regulation aforesaid shall be deemed to be a part of this contractor and breach thereof shall be a breach of this contract.
4. On the occurrence of an accident which results in the death of any of the workmen employed by the contractor or which is so serious as to be likely to result in the death of any such workmen, the contractor shall within 24 hours of the happening of such accidents, intimate in writing to Director NCESS, the fact of such accident.
5. In the event of an accident in respect of which compensation needs to be paid, the contractor should pay the sum of money.

GENERAL FORMS TO BE SUBMITTED BY THE TENDERER

Annexure-1

1. The rates quoted by a Contractor for the Work shall include the cost of.
 - a) All labour and supervision thereof all materials, tools implements and plants of every description, ladders, cordage, Tackle etc. as well as the provision of safe and-substantial scaffolding required for the proper execution of the work in conformity with the specifications for the various items of work;
 - b) Providing and maintaining all temporary fences, shelters, lights watchmen and danger signals and such other precautions as are necessary for the protection of the work or materials as well as to protect the public and those connected with the work from accidents at the site of, or on account of the work.
 - c) All sheds, mortar mills and mixing platform of every kind required for the proper execution of the work according to the specification;
 - d) All fees and royalties of materials and Finally clearing away of all rubbish, surplus materials plant etc. on completion of the work and dressing and leveling off and restoring the site to a tidy condition prior to handing over the work to NCESS, its maintenance until so taken over.
2. The Contractor shall be bound to bear the expense of defense of any action or law proceedings that may be brought by persons for any injury sustained owing to neglect of above precautions in connection with the execution of the work, and to pay any damages and cost which may be awarded in consequence.
3. The Contractor shall also help himself out of any difficulties of penalties arising from Interference, with private property in execution of the contract.
4. Unless otherwise specifically provided for the contracts, the contractor shall at his own cost keep all portions of the work free from water and in a neat and sanitary condition.

Signature of Tenderer

Date.....

ACCEPTANCE OF TENDER TERMS AND CONDITIONS

To

The Director
National Centre for Earth Science Studies
Thiruvananthapuram

Sir,

I/We do hereby agree to execute the works enumerated in the Schedule accompanying in accordance with the terms in your tender notification **dated 31.03.2021**, and specifications and conditions of contract in force in NCESS.

I/We further agree to complete the whole work in **45 days** from the date of execution of agreement and maintain the minimum rate of progress specified in the Tender Schedule.

I/We do agree to accept and carry out such portions of the work included in my/our tender as may be allotted to me/us if the work be not given to me / us.

I/We agree to keep the tender open for acceptance for **120 days** from the due date of submission thereof and not make my modifications in its items and conditions which are not acceptable to NCESS.

Yours faithfully,

(Usual Signature of Tenderer)

Full Name

Nationality

Place of Residence

Date of Submission

FORM OF DECLARATION

I _____ do hereby declare that none of my relations as per the list given in Section 6 and Schedule 1A of the Companies Act, 1956 is in charge of the above work or are having control over it.

I _____ do hereby distinctly and expressly declares and acknowledge that I have read the specifications therein and the NIT and do hereby admit that those conditions are binding on me and I shall abide by the terms and conditions as stipulated therein in respect of work.....

I _____ do hereby certify that no conditions are enclosed with the tender.

Place

Signature

Date

FORM OF NOMINATION

I _____ do hereby nominate and authorize Sri./Smt. _____

aged _____ years of _____ village _____ Taluk _____

District residing at _____

_____ to receive all any sum found due to me under the terms of contract (Agreement No. _____ dated _____ and details of contract in the event of my death before the amount has become payable or having become payable but has not been paid.

Signature :

Name :

Address :

In the presence of witness:

1. Name & Address

2. Name & Address

Signature

Signature

TENDER FORM
Renovation of room for IRMS facility

No	Details	To Be Filled by the Bidder
1	Name of Bidder	
2	Address of the Bidder	
3	Mobile number Telephone Number	
4	E mail ID (mandatory)	
5	PAN NO (copy should be enclosed)	
6	PWD/CPWD/BSNL/Railway/Irrigation/KWA Civil License Number (copy should be enclosed) Eligibility amount	
7	Experience of the Contractor (copy should be enclosed)	
8	Name of the Supervisor Mobile number of the supervisor	
9	GST no.	
10	Bank account no. IFSC code	

DECLARATION

1. The above facts are true to the best of my knowledge and I shall be held fully responsible for any wrong statement.
2. I have read the tender notice and understood the terms and conditions for this work as laid down by National Centre for Earth Science Studies, Trivandrum and I agree to abide the terms and conditions of the contract and also agree to undertake the work as per the description and as per rates quoted by me if my quotation is accepted.
3. Copy of PAN Card & PWD /CPWD license duly attested is enclosed.

Date

Name & Signature of the Tenderer

TECHNICAL SPECIFICATION AND COMPLIANCE SHEET

Sl. No.	IRMS Laboratory Civil_Electrical and AC Estimate	Comply/Not Comply
1	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead: of area 3 sq. metres and below	
2	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.	
3	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.	
4	Providing and fixing 10 mm thick acid and/or alkali resistant tiles of approved make and colour using acid and/or alkali resisting mortar bedding, and joints filled with acid and/or alkali resisting cement as per IS : 4457, complete as per the direction of Engineer-in- Charge.	
5	Removing and re fixing the existing glass , window shutters with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):With float glass panes of 4.0 mm thickness for window shutters	
6	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: cement ,ortar 1:6 (1cement : 6 coarse sand)	
7	12 mm cement plaster of mix 1:6 (1 Cement: 6 fine Sand)	
8	Providing and fixing Heavy duty sliding roller set (2 wheel) fittings with all necessary fixtures including all conveyance , labour charges etc as directed by Engineer In Charge	
9	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	
10	Wall painting with acrylic emulsion paint, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and color	
11	Providing and fixing 35 mm thick factory made laminated veneer lumber door shutter conforming to IS : 14616 and TADS 15:2001 (Part B), including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws, all complete as per directions of Engineer- in-charge and panelling with panels of 12 mm thick pre-laminated particle board (decorative lamination on both sides) grade -1, medium density flat pressed, three layer particle board FPT- I or graded wood particle board FPT- I, conforming to IS : 3087, bonded with BWP type synthetic resin adhesive as per IS : 848 and pre-laminated conforming to IS : 12823, Grade 1, Type - II marked	
12	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately). Second class teak wood	

<p align="center">13</p>	<p>Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with 12.5 mm thick tapered edge gypsum moisture resistant board</p>	
<p align="center">14</p>	<p>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 / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, panelling and dash fasteners to be paid for separately) For fixed portion Powder coated aluminium (minimum thickness of powder coating 50 micron wt @ 1.5 kg/m), Vertical @ 1 M c/C, Horizontal @1 M c/c @ 2 Kg/m, wastage 10%</p>	
<p align="center">15</p>	<p>Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item) With Toughened glass panes of 12.0 mm thickness for partition wall</p>	

16	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level. Levelling work 1:3:6 (1 Cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 10 mm nominal size	
17	Melamine Polishing on wood work (One or more coat) on Door Frame and Door Shutter	
18	Providing and fixing bright finished 100 mm mortice lock with 6 levers without pair of handles of approved quality for aluminium door, with necessary screws etc complete as per direction of Engineer- in-charge.	
19	Painting with synthetic enamel paint, having VOC (Volatile Organic Compound) content less than 150 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour.	
21	Disposal of building rubbish/malba /similar unserviceable dismantled or waste materials by mechanical means including loading, transporting unloading to approved municipal dumping area approved by Engineer in Charge beyond 50 m initial lead for all leads including all lifts involved. Tile Work, Brick Work.	
22	32W LED fitting (2x2 feet)	
23	Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed using medium pvc conduit as required.	
23.1	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	
23.2	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	
23.3	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	
24	Supplying and fixing following size/ modules, GI box along with modular base & cover plate for modular switches in recess etc. as required.	
24.1	9 Module box	
24.2	6 Module box	
25	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.	
25.1	6A switch	
25.2	16 A switch	
25.3	6/16 A socket	
26	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB),having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.	
27	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, Common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required . 4 way (4 + 12), Double door: 63A	
28	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator) 8 way Double door	

29	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.	
29.1	Single pole 6A	
29.2	Single pole 25A	
29.3	Single pole 16A	
29.4	Triple pole 32A/40A	
29.5	Double pole 40A	
30	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25/32 A 240 V "C" curve DP MCB complete with connections, testing and commissioning etc. as required.	
31	Supplying and fixing following rating, four pole, 415 V, isolator in the existing enclosure complete with connections, testing and commissioning etc. as required. : 40A	
32	Supplying and fixing TP/FP sheet steel enclosure on surface/ recess along without 25/32/40 A 240 V MCB/ISOLATOR complete with connections, testing and commissioning etc. as required.	
33	Providing and fixing 4.00 mm (6 SWG) dia copper wire on surface or in recess for loop earthing as required. OR (2run x 12 SWG)	
34	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required. Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp)	
35	Supplying and making outdoor end termination with cast resin compound including aluminium lugs and other jointing materials for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required. 4 X 50 sq. mm	
36	Supply and provide 3phase connection using 4core 50mm square Al armoured cable	
37	CI Civil & Electrical	
38	Contingency	
39	Supplying and fixing and commissioning ceiling mounted cassette Air Conditioners with Inverter Technology, Energy efficiency - 4 star, Operation range: 14-28 °CDB, Copper Condenser, 360-degree air flow, Approximate Coverage Area - 180 Sq. Ft, Input Supply: 220V ~240V, 50Hz, Noise Level = Below 50 db, LCD remote with night time visibility of buttons. 24 Hour AC with timer switch to switch between two AC's every 12 (or fixed) hours. Including Auto mode, Auto random restart, Auto restart (after power failure), Branch duct connection, Built-in high head drain pump, Dry mode, Fresh air intake, Sleep mode features. 1 year manufacturer comprehensive warranty on product and 5 years on compressor	