

ODISHA STATE CO-OPERATIVE BANK LTD.

Pandit Jawaharlal Nehru Marg, Bhubaneswar-751001



DETAILED BID DOCUMENT

Invitation of Bid, Detail Call Notice, Tender Schedule.

(Total 45 pages)

NAME OF WORK

**Renovation of
Conference Hall of OSCB Head office
Bhubaneswar**

Approximate Estimated Cost: Rs. 166,97,952.00

PRINCIPAL FEATURE OF THE WORK

1. GENERAL:-

The work under tender pertains to construction of Renovation of Conference hall OSCB Head office Bhubaneswar.

2. ACCESS TO SITE: -

The worksite is located at OSCB Head office.

3. MEDICAL AID: -

The nearest Hospital / Public health center are available at Bhubaneswar.

4. PROJECT AREA & COVERAGE

The project aims to renovate the OSCB Conference hall along with other ancillary works.

The abstract of the scope of work is presented below:

SL. No	PROPOSED WORK	
1	Renovation of Conference hall at OSCB Head office.	

Contractor


A.E.E.(Civil)
OSCB


CGM(G)
O.S.C.B.



THE ODISHA STATE COOPERATIVE BANK LTD.
Pandit Jawaharlal Nehru Marg, Bhubaneswar – 751 001

Ref. No. /OSCB/HRDD/

/2023-24

Date :

TENDER CALL NOTICE

The Managing Director, Odisha State Cooperative Bank Ltd, Pandit Jawaharlal Nehru Marg, Bhubaneswar-751001 invites **percentage rate bids in Double cover system (Cover-I: TECHNICAL BID & Cover-II:- PRICE BID)** for the work in the table below from **the eligible contractors of class** registered with Govt. of Odisha or equivalent class of Govt. of India / C.P.W.D. /central undertaking / Railway / M.E.S in conformity with Detail Tender Call Notice to be eventually drawn in P.W.D. P1 form.

Sl. No.	Name of the work	Estimated Tender Amount without GST (in Rs)	EMD amount (in Rs)	Cost of Tender Paper + GST 18% (in Rs.)	Eligibility-Class of Contractor	Period of Completion
1	2	3	4	5	6	7
1.	;Renovation of Conference Hall, OSCB Head office Bhubaneswar.	16697952.00	166979/-	11800/-	"B" & A	120 days

The above Detailed Tender documents will be downloaded from official website of OSCB www.odishascb.com dated, **26.02.2024 to dated 12.03.2024** .up to 5.00 P.M and received **during office hours of any working day**. The bid will be opened on dated **15.03.2024 at 03.00 P.M.** at **OSCB Head Office Bhubaneswar** in presence of the tenderer/ authorized agents if any. The bid document will be received **through registered/speed post only in above address**. The OSCB will not be held responsible for any postal delay. Hand delivery will not be accepted.

Other details and eligibility criteria can be seen in the bid document.

Any addendum/Corrigendum of tender will be displayed in the said websites.

The authority reserves the right to reject any or all tenders without assigning any reason thereof.

Contractor

(Signature)
A.E.E (Civil)

(Signature)
CCM(G)

CHECKLIST OF DOCUMENTS FOR TECHNICAL BID IN COVER –I

Sl. No.	Name of the Document Deposited with the Tender Paper	State (Yes/No)
1	Demand Draft towards cost of tender documents Rs. 11,800.00 (Including 18% GST) drawn in favour of Managing Director, Odisha State Cooperative Bank payable at Bhubaneswar.	
2	E.M.D as per column no-4	
3	Self Attested copy of Valid Contractor Registration Certificate	
4	Self Attested copy of GST Clearance certificate	
5	Self Attested copy of Pan Card	
6	Affidavit as per clauses 5-i (F), 5-i (H), 5-i (J), 5-i (K), 5-i (L) if applicable.	

CHECKLIST OF DOCUMENTS FOR FINANCIAL BID IN COVER –II

Sl. No.	Name of the Document Deposited with the Tender Paper	State (Yes/No)
1	Price bid 5-ii	

1. Cost of Bid document:

The Bidders have to pay the cost of bid documents of Rs.11800.00 including 18% GST (Non-refundable) in shape of Demand Draft drawn in favour of the Managing Director, Odisha State Cooperative Bank payable at Bhubaneswar. The demand draft shall be prepared on or before the last date of receipt of Bid document and to be submitted in a separate envelop marked "COST OF TENDER DOCUMENT DOWNLOADED FROM WEBSITE" along with the bid document.

2. EMD: Bids must be accompanied by security of the amount specified for the work in the table "Scheduled of works" (Column - 4) above in shape of N.S.C. / K.V.P/ P.O.T.D/ Post office saving pass book/ Deposit receipt of scheduled Bank / Pay order/Bank Draft duly pledged /drawn in favour of Managing Director, Odisha State Cooperative Bank payable at Bhubaneswar.

3. Last Date of Receipt of Tender Paper: Tenderer should furnish their tender in the separate sealed covers; the first sealed cover should contain all the information relating to his eligibility in addition to the special condition if any. On the top of the cover, it should be clearly mentioned in bold letters "COVER-I (TECHNICAL BID)." The second sealed cover should contain the "PRICE BID" and on top of the cover it should be mentioned in bold letters "COVER-II (PRICE BID)." Both the covers should be kept inside one sealed packet super scribing on the top "TENDER FOR OSCB WORK." which will be received up to 5:00 P.M. on dtd 12.03.2024 through registered/speed post only in above address.

4. a) Date and Time of Opening of Tender Paper Cover-I: Cover-I shall be opened at 03.00 P.M. on dt.15.03.2024 by the undersigned at office of the Odisha State Cooperative Bank Bhubaneswar. In presence of the tenderers or their authorized representatives.

b) Date and Time of Opening of Tender Paper: Cover-II: - Cover –II containing Price Bid shall be opened at 3.00P.M. On dt.18.03.2024 to those tenderers who will be found eligible as per eligibility criteria mentioned here under.





5. (i) ELIGIBILITY CRITERIA FOR QUALIFYING TECHNICAL BID

For consideration for qualifying the Technical Bid, the followings are to be submitted in COVER-I.

- (A) Cost of Bid document: Rs.11, 800.00 including 18%GST (Non-refundable)
- (B) Requisite EMD
- (C) Attested copy of Contractor's License Registration Certificate.
- (D) Attested copy of GST Clearance Certificate.
- (E) Attested copy of PAN CARD.
- (F) No Relation/ Relation Certificate: Tenderers should furnish the required certificate as per the OPWD Code Volume-II, Appendix-IX, and Para-7.

- (G) **Special Clause:** Additional Performance Security to be deposited by the successful bidder:-
- i Range of difference between the estimated cost put to tender and bid amount below 5 % - No additional performance Security.
 - ii. From 5% and above and 10% below – 50% of (Difference between estimated cost put to tender and Bid amount) to be deposited.
 - iii. From 10% and above – 150% of (Difference between estimated cost put to tender and Bid amount) to be deposited.

(H) **Bidders** have to furnish an affidavit in support of no rescission of any contract due to abandonment/negligence of any work by the agency/firm in last 5 years.

(I) 'Bids from joint ventures are not acceptable'.

(J) Engineering contractors who are desirous to avail the facility(if applicable)of exemption of EMD are required to submit an affidavit (Original) along with bid document to the effect that he/she had not yet availed the facility during current financial year as per codal provisions and they are also required to produce their original registration license at the time of opening of the bid for necessary entry, failing which his/her tender(s) will not be entertained and thus liable for rejection.


(K) The ST/SC contractors willing to avail the facilities as fixed by Govt. (if applicable) will submit an affidavit (Original) for the same along with tender document; otherwise they will not be entitled to avail such facilities. Claim at the time of opening of tender or later will not be entertained.

(L) Tenderers have to furnish an affidavit stating that the information's furnished are correct. In case at any stage if any information are found wrong his tender will be liable for rejection along with taking up of legal action against him as deemed proper.

The authority reserves the right to reject any or all tenders without assigning any reason thereof.

Any addendum/Corrigendum of tender will be displayed in the said websites.

Contractor


A.E.E.(Civil)



5. (ii) ELIGIBILITY CRITERIA FOR QUALIFYING PRICE BID

For consideration for qualifying the Price Bid, the followings are to be submitted in

COVER- II. -- Price Bid. (Financial bid of schedule of works)

6. If the office happens to be closed due to subsequent declaration as holiday in Govt. or Local Authority to the last date of receipt of tenders and date of opening as specified above then the date of receipt of tenders and the date of opening will be on the immediate next working day at same specified time and venue respectively.

7. The authority reserves the right rejects any or all the tender papers without assigning any reason thereof.

8. The sealed envelope containing the tender should be super scribed with the name of the work and should be addressed to Managing Director, Odisha State Cooperative Bank Ltd. as addressed above and should contain two separate sealed envelopes (COVER- I for Technical Bid & COVER- II for Financial Bid).

9. PERCENTAGE RATE CONTRACT:-

As per works department letter No 17190 dtd. 9.10.07 the percentage rate contract is invited. The bidder shall quote rate on % (Percentage) basis only (% excess over / less than / equal) both in figure and words at appropriate place of Tender Schedule.

i) In case of percentage (%) rate tenders, only percentage quoted shall be considered. Percentage quoted by the contractor shall be accurately filled in figures and words, so that there is no discrepancy.

ii) If any discrepancy is found in the percentage quoted in words and figures, then the percentage quoted by the Contractor in words shall be taken as correct.

iii) If any discrepancy is found in the percentage quoted in percentage excess / less and total rate quoted by the Contractor, then Percentage will be taken as correct.

iv) The percentage quoted in the tender without mentioning excess or less and not supported with the corresponding amount will be treated as excess.

v) The percentage quoted in the tender without mentioning excess or less supported with the corresponding amount does not tally with either to percentage excess or less it will be treated as percentage excess.

vi) The percentage quoted in the tender without mentioning excess or less supported with the corresponding amount if tallied with the percentage then it will be treated as to which side the amount tallies.

vii) The tender shall be written legibly and free from erasures, over writings or corrections of figures, Corrections, over writing & interpolations where unavoidable should be made by making out, initialing, dating and rewriting.

viii) In the contract P1 time is the essence. The contractor is required to maintain a certain rate of progress specify in the contract.

ix) The period of completion is fixed and cannot be altered except in case of exceptional circumstances with due approval of the next higher authority.

x) Bills for percentage rate tenders shall be prepared at the estimated rates for individual items only and the percentage excess or less shall be added or subtract

10. TIME OF COMPLETION: -

The work is to be completed within time as above column no-7 commencing from the date of issue of order to proceed with the work.

11. PREBID INSPECTION BY CONTRACTORS: -

The tenders are required to go through each clause of P.W.D. form No. P1 carefully in addition to clauses mentioned herein before tendering. In any case, the bidder shall be deemed to have carefully examined the tender documents, visited the site of work and its surroundings and satisfied himself as to the form and nature of the site approach roads, haul roads, local conditions assessed all the facilities including requirement and availability of labour and materials needed for complete execution of the work and made an inventory of such information as to the risks, contingencies and other circumstances which would influence or affect his tender, before tendering. He should also satisfy himself about the sufficiency of availability of materials in quarry and borrow area. The department will not be responsible for any misjudgment of the bidder on these accounts for any future claims.

12. VALIDITY OF TENDER: -

12.1. The Bid will be valid for a period of 90 (ninety) days from the date of receipt of tender.

12.2. The tender which is not in the prescribed proforma and is not strictly in accordance with the terms and conditions of the tender call notice is liable for rejection.

12.3. Alternate tenders, conditional tenders and tenders containing indefinite terms will not be entertained.

12.4. Loose letters found in the tender box intimating modification to the tenders already submitted will not be considered.

12.5. Rates quoted should be for finished items of works and for sufficiency as per the description of the schedule of quantity and specification and shall include all taxes including rent, O.S.T. on works contract, royalty, cess and general and incidental charges pertinent to the work other charges of materials, octroi duty, ferry tolls, conveyance charges and other costs on account of land and building including temporary building required by the bidder for collection of materials, storage, housing of staff or other purpose of work. The contractor will be responsible for payment of all royalties and other charges for quarrying materials. All local taxes inclusive of State Sales Tax and Income Tax, Cess, Octroi Charges, Ferry and Tollage charges are to be paid by the contractor.

The bidder shall bear cost of various incidental sundries and contingencies necessitated by the work of all within the following or similar category.

- i) Labour camps and hutments necessary to a suitable scale including conservancy and sanitary arrangements, medical aids thereon to the satisfaction of the health authorities.
- ii) Labourer as well as for the works. No claim for carriage of water whatsoever will be entertained.
- iii) Fees and dues levied by the Municipal, Canal and water supply Authorities.
- iv) Suitable equipment and wearing apparatus for the labourers engaged in risky operation.
- v) Suitable fencing, barriers, signals, including parapet and electrical signal where necessary at works and approaches in order to protect the public and employees from accidents.
- vi) No compensation for any damage done by rain or by similarly action during execution of the work shall be paid.
- vii) The tender shall be written legibly and free from erasures, overwriting or correction of figures. Corrections unavoidable should be made by scoring out the same and initialing dating and rewriting.

12.6. The tender is to be decided as per prevailing codal provisions taking into consideration the capacity of the bidder and equipments available with him for the work. The authority reserves the right to reject any or all tenders without assigning any reason there to.

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12.7. The percentage rates in the tender should be written both in words and figures and in case of any discrepancy, the percentage rates written in words will prevail.

13.1 AWARD OF CONTRACT: -

The bidder whose tender is selected for acceptance is to sign the agreement in the P.W.D. form P-1 for fulfillment of the contract in the office of the OSCB. The Bidder is required to deposit 2% of the accepted tender before entering into agreement as the Initial Security Deposit. The earnest money deposited with the tender will form a part of the initial security deposit.

This security deposit will carry no interest. Failure to enter into the required agreement and to pay the security deposit as above within the specified period shall entail forfeiture of the earnest money. No tender shall be finally accepted until the required amount of security money is deposited. The written agreement to be entered into between the Contractor and the OSCB shall be the foundation of the rights of both the parties and the contract shall be deemed to be incomplete until the agreement has first been signed by the Contractor and then by the M.D OSCB.

13.2. The work may be split up and distributed among several contractors if considered necessary, in urgency of circumstances of the work and the contractor will not be entitled to any compensation to this account.

13.3. In case of delay in acquisition of land, no compensation will be admissible but time extension will be granted.

13.4. The earnest money deposited by the unsuccessful bidders will be refunded as per relevant rules in force not earlier than the finalization of tender case.

13.5. No bidder is permitted to furnish their tender in their own manuscript paper.

14. OBSERVATIONS OF LAWS AND LOCAL REGULATIONS ACCIDENTS AND SAFETY MEASURES.

The Contractor shall observe all State and local rules and regulations, so far as they are relevant in controlling the operations involved carrying out the work and indemnify the Govt. and employees of the Govt. against all suite losses, demands, actions, judgments and cost of every kind resulting from the commissions and omissions of the Contractor and his employees in violation of the said rules and regulations.

14.1. Department for payment of the compensation under workman's compensation Act -V- III of 1923 on account of the workmen being employed by him and the full amount of compensation if awarded by any competent court of law to the workmen will be recovered from the Contractor and will be paid to the workmen as per direction of the court.

14.2. The Contractor shall have to abide by the Labour Laws and Rules in vogue and shall provide at his own cost housing, water supply, sanitation, medical aid and other facilities to the labourers engaged in the work as required under Labour Laws and Regulations. The Contractor shall not employ labour of minor age group.

14.3. The Contractor shall have to abide by the safety code introduced by the Govt. of India, Ministry of Works, Housing and Supply in their standing order No.44 to 50 Dt.-25.11.57.

14.4. Blasting where required shall be taken up only when proper precaution have been taken for the protection of persons and property in accordance with I.S. 4081-1967, safety code for blasting and related Drilling operations. Blasting shall be carried out only by persons licensed for and thoroughly conversant with the working methods and precaution to be observed in using explosives. To avoid the danger of inquiry from flying debris, all personnel in a blasting area shall retreat to an adequate cover. While carrying out excavation adequate precautions in accordance with I.S. 3764-1966. Safety code for excavation works shall be taken for the safety of workers. The Contractor shall have to abide by the blasting laws and rules.

14.5. In case of any damage to Government or public property or to the property owned to any person(s) or firms (s) or body (s) due to negligence or any such action of the Contractor resulting in damage or stoppage of work thereby, the Contractor shall be liable to be penalized to the extent of the assessed value of the damage or the out turn lost.

14.6. If the contractor removes any materials or stock so supplied to him from the site of work with a view to disposing of the same dishonestly, he should in addition to any other liabilities Civil or Criminal arising out of the contract be liable to pay a penalty equivalent to five times the price of the materials or stock according to the stipulated rates and the penalty so imposed shall be recovered from any sum that may then or at any time there after become due to the contractor or from his security.

14.7. The contractor should be fully liable to indemnify the Department for payment of the compensation under workmen's compensation Act-VIII of 1823 on account of the workmen being employed by him & the full amount of compensation paid will be recovered from the Contractor.

14.8. The contractor shall make all arrangement for proper storage of materials. But, no cost for rising shed for the storage of materials and pay of watchman etc. will be borne by Department. These are all to be borne by the contractor. The Department is not responsible for considering theft of materials at site. It is at contractor's risk. Under any such plea, if the contractor stops the work, he shall have to pay the penalty as per Clauses of the P1 contract.

14.9. After the work is finished all surplus materials and debris are to be removed by the contractor and preliminary works such as vats mixing platform etc. are to be dismantled and all the materials are to be removed from the site. No extra payment will be made to the contractor on this account.

14.10. The contractor will have to arrange for water supply for all works and make sanitary arrangements at his own cost for his labour camps. Contractor has to arrange adequate lighting arrangements for night works whenever necessary at his own cost.

14.11. Taking water from the foundation either rain water or sub soil water, if necessary should be borne by the Contractor. No payment will be made for bench marks, level/pillars, profiles and benching and leveling ground where required. The rates quoted should be for finished items of work inclusive of those incidental items of work.

15. CHANGE OF ADDRESS OF CONTRACTOR: -

The Contractor shall inform the OSCB any change of his postal address from time to time from the one given in the tender papers and authorize any person with due intimation to the OSCB to receive instruction or communication from the OSCB on his behalf, failing which, the said on delivered instructions and communications published in the notice board of the OSCB intimation to the Contractor and the same shall be binding on him.

16. ARCHAEOLOGICAL FINDINGS: - The Contractor shall deliver to the Engineer-in-Charge all articles of archaeological importance as and when those are found in course of execution.

17. CONTEMPORARY CONTRACTORS: -

The Contractor shall take into consideration the needs and requirements of the other Contractors if any, working in the vicinity during the tenure of his contract and shall neither take nor cause to be taken any steps or actions that may cause disruption / disturbance to their work, labour or arrangement etc. Any action by the Contractor which the Engineer-in-Charge in his unquestioned direction may considered as infringement of the above, would be considered as a breach of contract and he may take such action against the Contractor as deemed fit.

18. TAXES: -Income tax, GST and workers welfare cess will be deducted as per prevailing Govt. orders from time to time.

A) INCOME TAX : -

As per new section 104 in the income tax Act, 1961 introduced by Finance Department Act, 1982 as communicated in Govt. of Orissa Finance Department No (M.E.-62-111-32) dt.19/01/72 when individual contract

exceeds by Rs.50001 deduction as applicable% will be recovered and credit thereof will be passed onto the Income Tax Authority by cheque under the head of account "Taxes of Income "

B) GST: -

Deduction @ 2 % from billed amount will be made from every bill of the contractor towards GST.

C) CESS: - Deduction @ 1 % from billed amount will be made from every bill.

19. INTEREST: -

Under no circumstances interest is payable for dues of the Contractor if any, laying unpaid or payable for the work.

20. PLANS AND DRAWINGS: -

The work has to be carried out in accordance with the Orissa Detailed standard specification and relevant I.S. specification pertaining to the tendered items of works and specifications and special conditions appended here to. Drawings will be supplied to the Contractor to execute the work in general conformity therewith. These drawings will be supplemented by such additional, general and detail drawings or directions as may be considered necessary or desirable as the work progresses. No claim will be entertained due to change of drawing.

Where details shown on those drawings differ from the requirement of the specifications, the requirement of the specifications shall govern and the Contractor shall not work without proper drawings, direction and instructions. He shall check all drawings carefully and bring to the notice of the Engineer-in-Charge any errors and omissions discovered, where upon the Engineer-in-Charge shall prepare revised additional drawings and specifications as may be required. All such additional, general and detailed drawings will be binding on the Contractor under the same terms and conditions as provided in Clause - 10 of F2 agreement. The decision of the Engineer-in-Charge with regard to specification is final.

21. CONSTRUCTION PROGRAMME :-

A construction programme proposed and submitted by the Contractor prior to issue of work order may be approved by the Engineer-in-Charge. The Contractor shall arrange for additional shifts whenever necessary to suit the revised construction programme. No extra payment on this account is admissible.

- a) The Contractor has to make adequate lighting arrangements for night work wherever necessary in fulfillment of the construction programme at his own cost and no extra payment on this account is admissible.

22. AVAILABILITY OF LABOUR: -

Labour required for the work may not be available to the full extent in the locality. The Contractor may have to import labour from outside. He shall arrange and regulate the labour strength according to necessity. The claim for any idle labour whether or not at the fault of the Contractor or due to any other reason whatsoever shall not be entertained by the Department.

The Contractor's item rate in the tender are deemed to have adequate coverage on account of import and employment of required labours and providing facilities and amenities to them.

23. SUSPENSION OF WORK: -

The Engineer-in-Charge/ M.D, OSCB may infrom time to time by written orders without in any way violating the contract, direct the Contractor to suspend the work or any part thereof at such time and the Contractor shall not after receiving such written order proceed with the work or items thereof order to be suspended until he shall have received a written notice or authority from the Engineer-in-Charge/ M.D, OSCB to proceed with the works again. Should the work be ordered to be suspended directly in the interest of safety of the work due to acts of God, war or indirectly as a result of the Contractor not complying with any of the provisions of the contract in respect of the quality of the materials, workmanship, programme of execution he shall not be entitled to claim any compensation for any loss he may be put to directly or indirectly for such suspension of work.

During the period of suspension of the work the Contractor shall properly protect and secure the works as far as is necessary in the opinion of the Engineer-in-Charge/ M.D, OSCB.

There will not be compensation or extension of time granted for reasons of inadequate cash flow. Work should be suspended depending on availability of funds and no compensation will be admissible of this accord.

24. ITEMS NOT COVERED IN THE SCHEDULE: -

The items of work not covered in the tender schedule shall be paid in the current schedule of rate of the State and those not covered by the said schedule of rate will be paid on actual analysis approved by the competent authority.

The right is reserved to make increase or decrease the quantity of item of works mentioned in the schedule attached to the detail tender call notice as may be considered necessary for satisfactory completion of the contract work and such increase or decrease will no way invalidate the contractor shall not be eligible to any claim/compensation on the account of extension of time for completion of the work.

25. FORCE MEASURE: -

The Contractor shall take all precautions to protect the work from damage due to rains, flood, cyclones, fire or by any other natural calamity, public agitation or riots etc. and also make good such damage if any at his own cost during the period of execution and till the work is taken over by the Department. No compensation will be paid to the Contractor on account of idle labours due to above reason.

26. TOOLS AND PLANT: -

The Contractor should arrange necessary tools; plant and machineries for the efficient execution of work at his own cost, and the rate quoted should be inclusive of such charges. The department may lend on hire some machineries for use in the work subject to their availability on terms and condition as shall be specified by the department from time to time and after execution of necessary agreement. But on the plea of non-supply of machineries by the department, the works should not be delayed nor any compensation on such account is tenable nor will the Contractor be eligible for any time extension on that score.

27. HAUL ROADS: -

All approach roads and haul roads to worksites and quarries will be constructed and maintained by the Contractor at his own cost.

28. CONSTRUCTION SHEDS: -

Temporary structures may be erected by the Contractor at his expenses for storage shed, office, residence, labour hutment etc. on the land available with the Department with the permission of the Engineer-in-Charge. On completion of the work these structures should be dismantled and the site cleared and handed over to the Department.

28.1. In the event of delay in supply of detailed structural designs for unavoidable reasons, reasonable extension of time will be granted on the application of the Contractor. But no claim for monetary compensation will be entertained under any circumstances.

28.2. Any slip debris and other foreign materials deposited on the working region on account of rains, flood or any other cause prior to and during the course of execution and till the work is completely or taken over by the Department, have to be cleared by the Contractor at his cost, the rates quoted by the Contractors shall be inclusive of all such contingencies.

28.3. The Contractor shall not interfere with the execution of water supply of electrical arrangements any other works entrusted to any other agencies by the Department at any time during progress of work.

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28.4. It shall be the responsibility of the Contractor to make such arrangements as may be required from time to time to protect men, machinery and the works against damage due to flood and the Department accepts no liability whatsoever for damage or loss on this accept.

29. SITE CLEARANCE: -

Such portion of the site of work as may be considered necessary for the purpose of alignment and demarcation, shall be cleared of jungle, if any, by the Contractor at his own cost.

The limits of the structure within which work will be carried out within the scope of the Contractor shall be suitably demarcated by the Department.

The Contractor has to supply necessary labour at his own cost fixing bench mark pillars / alignment pillars / alignment and pegs and also for layout, leveling and profiling and maintaining the same till completion of the work. Cement Concrete pillars required for layout will be supplied by the Contractor at his own cost.

The Contractor should keep himself in touch with the Engineer-in-Charge for smooth execution of work and arrange adequate labour depending upon the work load and working space available. No claim whatsoever for detention / idle of labour will be entertained.

30. ORDER BOOK : -

An order book with pages serially number will be issued by the Secretary OSCB, and shall be maintained systematically till completion of the work and thereafter surrender it, to the Secretary OSCB for record. The order book shall be available at the site during work hours for recording instructions relating to the work.

Order regarding the work as and when necessary shall be entered in this book by the Engineer-in-Charge or his superior in office with their dated signatures in exercise of statutory power vested on them which shall be duly noted by the Contractor or his authorized agent with his dated signature. The executive sub-ordinate, in charge of work shall also record his observation of defective work and such orders / observation entered in this book, and noted by the Contractor agent shall be considered to have been duly given to the Contractor. Similarly orders entered by the higher authorities shall be deemed to have been duly issued by the Engineer-in-Charge for the contract.

31. RULE TO VERBAL ORDER: -

It shall be the Contractors responsibility to get any verbal orders, instructions or directions confirmed in writing without which no cognizance will be taken of such verbal orders, instructions or directions for settlement of any claim arising thereof.

32. STATUTORY OBLIGATION OF CONTRACTOR: -

The Contractor shall have to arrange water required for the work at his own cost.

32.1. The Contractor shall have to construct and maintain coffer dam as required for the work during execution at his own cost.

32.2. Bailing out water from foundation, construction of cross bund dewatering wherever necessary during execution of the work shall have to be done by the Contractor at his own cost.

32.3. Gangway, scaffolding or any such arrangements required for the work are to be provided by the Contractor at his own cost as per direction of the Engineer-in-Charge. The Department will have the right to inspect such arrangement made for the work and reject partly or fully such structures found defective in opinion of the Engineer.

32.4. Department shall not pay compensation to the Contractor for the damage occurred to the materials and work entrusted to him due to natural calamities.

32.5. The contractor should be fully liable to indemnify the Department for payment of the compensation under workmen's compensation Act-VIII of 1823 on account of the workmen being employed by him & the full amount of compensation paid will be recovered from the Contractor

32.6. Every tenderer must examine the Detailed Specification of Odisha PWD before submitting his tender. The right is reserved without impairing the contract to make such increase or decrease in the quantities of items of work mentioned in the schedule attached to the tender notice as may be considered necessary to complete the work fully and satisfactorily. Such increase shall in no case invalidate the contract or rates. It shall be definitely understood that, the Government does not accept any responsibility for the correctness of completeness of the quantities shown in the schedule. The schedule is liable to alteration by omission or addition or deduction and such omission, deductions shall in no case invalidate the contract & no extra monetary compensation will be entertained.

32.7. The delay if any due to other departments such as digging on road etc. shall be the responsibility of the successful bidder.

32.8. Statutory clearance if any from electrical inspector shall be the responsibility of the successful bidder.

32.9. The contractor is to submit running bills supported by photographs of works done and quality control test certificates from Govt. or Govt approved laboratories of all materials used, cube test and other reports etc. as per norm and standard of works performed for which no extra payment shall be made.

32.10 The contractor must keep Level instrument, theodolite and compass etc at site at his own cost.

32.11 The contractor must construct transparency pillar either in masonry or steel depicting the brief details of contract and source of funding at his own cost and maintain the same till completion of work.

33. DEPARTMENTAL RIGHT FOR DEVIATION IN QUANTITIES: -

The quantity/volume of item may alter during construction as per field condition. Right is reserved to make such increase or decrease in quantity or item of work mentioned in the schedule attached to the tender notice as may be considered necessary for satisfactory completion of the work and such increase or decrease shall in no way invalidate the Contractor.

34. EMERGENCY MEASURE: -

The work may be split up and distributed among several Contractors if considered necessary on the emergency of the circumstances of the work and the Contractor will not be entitled to any compensation to his account.

35. CONTRACTOR DYING, BECOMING INSOLVENT, INSANCE OR IMPRISONED

a) In the event of the death insanity, insolvency and imprisonment of the Contractor or the Contractor being a partnership or firm becomes dissolved or being a corporation goes into liquidation, the contract may be terminated by notice in writing posted at the site of the work and advertised in one issue of the local newspaper and all acceptable works shall be paid for after recovering all the Contractor's due to the Govt. there from, at appropriate rates to the person or person entitled to receive the payment.

b) If the Contractor becomes bankrupt or has a receiving order made against him or compound with his creditor or being a corporation commence to be wound-up not being a voluntary winding-up for the purpose only an amalgamation or reconstruction or carry on its business under a receiver for the benefit of the creditors of any of them, the Department shall be at liberty.

i) To give such liquidator receiver, or other person the option of carrying out the contract subject to his providing guarantee for the due, faithful performance of the contract up to an amount to be determined by the Department.

ii) To terminate the contract forthwith by notice in writing to the Contractor or to the liquidator or receiver or to any person in whom the contract may become vested and to act in the manner as per prevalent clauses of P1 contract.

36. DETAILS CALL NOTICE BEING PART OF CONTRACT: -

The detail tender call notice and all the Annexure there to will form the part of the Agreement when the work will be awarded to the Contractor. All the correspondence made with the Contractor and all his correspondence with the Department after the tender is received will also be attached with the agreement.

37. FAIR WAGES CLAUSE: -

The Contractor should abide the fair wage clause introduced by the Govt. and shall not pay less than the fair wages fixed by the Govt. to the labourer engaged by him in the work.

38. TESTING OF THE STRUCTURE : -

The materials like Cement, Steel, Paints etc. procured & used by the Contractor for the above noted work should be as per I.S.I specification and to be got approved from the Engineer-in-charge before execution. The contractor if required, has to test the materials in approved laboratory & furnish the test results at his own cost.

39. TIME CONTROL:-

39.1 Progress of work and Re-scheduling Programme.

39.1.1 The M.D, OSCB shall issue the letter of acceptance to the successful contractor. The issue of the letter of acceptance shall be treated as closure of the bid process and commencement of the contract.

39.1.2 Within 15 (fifteen) days of issue of the letter of acceptance, the Contractor shall submit to the M.D,OSCB for approval a Programme commensurate to Clause No.3 showing the general methods, arrangements and timing for all the activities in the works along with monthly cash flow forecast.

If at any time it should appear to the M.D, OSCB that the actual progress of the works does not conform to the programme to which consent has been given, the Contractor shall produce at the request of the M.D, OSCB, a revised programme showing the modifications to such programme necessary to ensure completion of the works within the time for completion. If the Contractor does not submit an up-dated programme within this period, the M.D, OSCB may withhold the amount of 10 % of the contract value from the next payment certificate & continue to withhold this amount until the next payment after the date on which the overdue programme has been submitted.

39.2 Extension of the Completion Date.

39.2.1 The time allowed for execution of the works as specified in the contract date shall be the essence of the contract. The execution of the works shall commence from the 15th day or such time period as mentioned in letter of award after the date on which the M.D, OSCB issues written orders to commence the work or from the date of handing over of the site whichever is later. If the Contractor commits default in commencing the execution of the work as aforesaid, Government shall without prejudice to any other right or remedy available in law be at liberty to forfeit the earnest money & performance guarantee / Security deposit absolutely.

39.2.2 In case of delay occurred due to any of the reasons mentioned below, the contractor shall immediately give notice thereof in writing to the M.D, OSCB but shall nevertheless use constantly his best endeavors to prevent or make good the delay and shall do all that may be reasonably required to the satisfaction of the M.D, OSCB to proceed with the works.

- (i) Force measure, or
 - (ii) Abnormally bad weather, or
 - (iii) Serious loss or damage by fire, or
 - (iv) Civil commotion, local commotion of workmen, affecting any of the trades employed on the work, or
 - (v) Delay on the part of other contractors or tradesmen engaged by
- In case of delay occurred due to any of the reasons mentioned below, the contractor shall immediately give notice thereof in writing to the M.D, OSCB but shall nevertheless use constantly his best endeavours to prevent or make good the delay and shall do all that may be reasonably required to the satisfaction of the M.D, OSCB to proceed with the works. In executing work not forming part of the contract.

- (vi) In case a variation is issued which makes it impossible for completion to be achieved by the intended completion date without the contractor taking steps to accelerate the remaining work and which would cause the contractor to incur additional cost, or
- (vii) Any other cause, which, in the absolute discretion of the authority mentioned, in contract date is beyond the contractor's control.

39.2.3 Request for re-schedule and extension of time to be eligible for consideration, shall be made by the Contractor in writing within 30 (thirty) days of the happening of the event causing delay. The Contractor may also, if practicable indicate in such a request the period for which extension is desired.

39.2.4 In any such case, a fair and reasonable extension of time for completion of work may be given. Such extension shall be communicated to the contractor by the Engineer-in-charge in writing within 2 (two) months of the date or receipt of such request. Non-application by the contractor for extension of time shall not be a bar for giving a fair and reasonable extension by the In case of delay occurred due to any of the reasons mentioned below, the contractor shall immediately give notice thereof in writing to the M.D, OSCB but shall nevertheless use constantly his best endeavors to prevent or make good the delay and shall do all that may be reasonably required to the satisfaction of the M.D, OSCB to proceed with the works. And this shall be binding on the contractor.

40. RESOLUTION OF DISPUTES AND JURISDICTION OF COURT: -

All claims arising in course of execution due to non-payment, less payment or for any reason what so ever which the contractor deems necessary for reimbursement shall be made to the M.D OSCB for his consideration and order. In case the contractor is not satisfied with the decision, and then he can prefer the claim to the M.D OSCB, Bhubaneswar for his arbitration. All such awards shall be speaking, reasoned, parawise and specific. In case the same is still not deemed satisfactory by the contractor then he can claim the amount in the form of money suit in the appropriate Court of Justice. For all legal disputes the case of action will be deemed to have arisen within jurisdiction of Sub-Judge, of Bhubaneswar.

41. Tenderers are required to submit the following documents along with the Bid.

- (1) List of major works executed in the prescribed proforma enclosed herewith**
- (2) CERTIFICATE OF LIST OF WORKS IN HAND**

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W

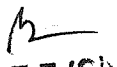
List of major works executed

I/We do hereby certify that the following works have been executed by me/us in last 3 years

Sl. No.	Name of work	Name of department where the work was executed	Amount of works in Lakhs	Date of starting of work as per agreement	Date of completion of work as per agreement	Remark
1	2	3	4	5	6	7

Signature of the Tenderer

Date _____




CERTIFICATE OF LIST OF WORKS IN HAND

Sl. No.	Particulars of works now in hand	Amount of each work	Period which the work is stipulated to be completed (in month)	Approximate value of work done against each work on the date of submission of Tender	Deptt. Under which the work is being Taken up.	Remarks
1	2	3	4	5	6	7

Signature of the Tenderer

Date _____

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EE (Civil)

10

WORK PROGRAMME

Time Description of work

1st Month

.....

2nd Month

.....

3rd Month

.....

4th Month

.....

Signature of the Tenderer

Date _____

AFFIDAVIT

I, Sri _____, Aged _____ years,
son/daughter/wife of Sri _____ at present
residing at _____ P.O. _____ P.S. _____
Dist. _____, Pin - _____ do hereby solemnly affirm as follows.

i. That, I possess a valid license for execution of works contract issued
by _____ belongs to _____ class and
valid up to _____.

ii. That I am submitting tenders before the M.D.OSCB, for execution of following works in
response to tender call notice no. _____.

- 1. _____
- 2. _____ etc.

iii. I am swearing this affidavit that all tender documents and accompanying papers those
being submitted by me before the M.D.OSCB, including EMD in any shape are all
authentic and bonafied documents in the eyes of law of the land. That the facts stated in
the affidavit are true to the best of my knowledge and belief.

Contractor

A.E.E.(Civil)

CGM(G)

(COVER - II)
BILL OF QUANTITIES

Name of work : Renovation of Conference hall OSCB Head office Bhubaneswar.

Tender cost -Rs 16697952.00

Class of Contractor: - "C" and "B"

SCHEDULE OF WORKS					
Sl. No.	Description of work	Quantity	Unit	Estimated Rate	AMOUNT
				Rs. P	Rs. P
1	Dismantling of damaged Structure, doors, windows and ventilators including removal of frame, hinges, fastening and stacking the same for reuse and removing the debris within 50m lead.	1.00		200000.00	200000.00
2	Treating the damaged portion with Anti-rust treatment	185.00	Sqm	550.00	101750.00
3	Providing and Fixing Knauf Channeled Woodworks perforated panels of width 192mm, thickness of 15mm and length 2400 mm, made of a Moisture resistant fiber board substrate with a laminated facing as per the approved shade (Portland Maple, Sea Beech, Siam Wood & Mystique Walnut, Interior White, Alumina Pearl)and a melamine balancing layer on the reverse side. The boards shall have a special perforation pattern where the reverse surface has a "Helmholtz" fluted perforation with consecutive 3mm wide groove followed by 13mm of visible pane. The edges of the panel shall be "tongue-and-grooved" to fix special clips for installation and seamless visual. The back of the perforated panel shall have sound absorbing non-woven Sound tex acoustical fleece hot pressed to achieve NRC of 0.6. (Average value of Absorption Co-efficient readings taken at 250 Hz, 500 Hz, 1000 Hz and 2000 Hz) as per ASTM C423 and Humidity Resistance (RH) of 70% with camber limit less than 1mm/1000mm and bow less than 1mm/300mm.	78.20	Sqm	5900.00	461380.00
4	Providing, fitting, fixing of false ceiling of approved design and drawing in all floors with G.I section on 4 walls to be fixed by means of steel screw and PVC plug and the G.I grid 2'-0" x 2'-0" to be suspended from ceiling by using 12.5mm thick Gypsum Board including cost of all materials, all T&P etc. required for the work complete in all respect as per the direction of the Engineer-in-charge.	129.40	Sqm	1200.00	155280.00
5	Providing and applying white cement based putty of average thickness 1 mm of approved brand and manufacturer, over the plastered wall surfaces to prepare the surface even and smooth as per the instruction of Engineer-In-Charge at all elevations including all material & labour complete.	151.27	Sqm	71.40	10800.68
6	Providing & Applying priming coat with Cement primer of approved brand and manufacture on plaster surface as per the instruction of Engineer-In-Charge at all elevations including all material & labour complete.	151.27	Sqm	70.70	10694.79

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7	Providing & painting two coats of Plastic emulsion paint with 1st quality of approved brand and manufacturer to give an even shade as per the instruction of Engineer-In-Charge at all elevations including all material & labour complete.	151.27	Sqm	96.30	14567.30
8	Providing and Fixing of Knauf Optra Acoustical Wall Panel with square edges made of fiber glass substrate 25mm thick, wrapped on the front side with an acoustically transparent fabric as per the approved shade (Husk, Copper, Sangria, Sesame, Coffee, Charcoal, Titanium, Flame, Peanut and Shell). The panel shall be classified for Fire Class A, as per ASTM E-84. The Acoustical Wall Panel shall be of sizes 600x600mm (Nominal) or 600x1200mm (Nominal) and shall achieve an NRC of 0.85 (Average value of Absorption Co-efficient readings taken at 250 Hz, 500 Hz, 1000 Hz and 2000 Hz) with 50mm air gap as per ASTM C423 to be fixed to wall on a framework of wooden batten sand using Wall panel Impellers (supplied by the manufacturer) or by using construction adhesives (as per the instructions laid down by the manufacturer). The fiber glass substrate shall have a recycle content of 85%.	73.34	Sqm	6650.00	487711.00
9	Supplying, fitting and fixing of Wall paneling made with 19mm thick board and 4mm thick veneer with melamine polish and teak wood beading at edges including cost of all materials and labour etc Complete	33.59	Sqm	5500.00	184745.00
10	Providing & fixing Sal wood 100 X 75 mm door frame.	0.10	cum	79224.00	8080.85
11	Providing & Fixing of 32mm flush door shutter made out of 32mm BWR Block board and pested with both side 1mm thick sunmica as approved including cost of all materials All Fitting & Fixtures etc. complete and cost, labours & of door closure & M. lock of godrej make etc. excluding GST.	5.68	Sqm	8500.00	48280.00
12	Providing & fixing of Lacquered glass	4.72	Sqm	5920.20	27943.34
13	Supplying all materials, labour, T&P and providing Vitrified mat finish tiles in floor, treads and landing on 25mm thick bed of cement mortar 1:1 (1 cement:1 sand) joined with neat cement slurry mixed with pigment to match the shades of the tiles including rubbing and polishing complete as per direction of the Engineer in charge. (Ceramic tile 600mmx600mm size (Kajaria-Fog parla) plain/printed to be pre-approved by the Engineer in charge)	15.36	Sqm	1008.00	15482.88
14	Supplying all materials, labour, T&P and fixing porcelain glazed tiles in dados skirting on 12mm thick cement plaster (1:3) jointed with neat cement slurry mixed with pigments to match the shades of the tiles including rubbing and polishing complete as per direction of the Engineer in charge. (Glazed tile 600mmx300mm size (Kajaria-Duren Morfil) plain/printed to be pre-approved by the Engineer in charge)	64.47	Sqm	1240.00	79942.80
15	Factory made Solid WPC door frame of size 90mmx45mm fabricated. The door frame consists of four segments which are provided with plug-in-socket arrangement in-situ in the mould. The segments are plugged in and are joined together by means of screw. The WPC frame shall be provided with The material and process for manufacturing the door frames shall conform to Relevant I.S specification. The finish of door frame will be plain colour white/ Ivory/ Beige/ Light grey/ Golden brown/Mahogany/Teak wood/sand stone/	15.03	Rmt	1114.30	16747.93

	Champagne/ Pastel blue or any other colour using high quality pigments complete in all respect as per specification and direction of the Engineer in charge.				
16	Factory made single leaf Solid WPC (Wood polymer) composite door shutter of 25mm thick compacted with wood grain finish structural foam panel of 29mm thickness and a density of 650kg/cu.mtr shall be used as core material for fitting the metal fittings such as tower bolts, aldrops, handles etc shall be provided. A structural adhesive compatible with(EPS) foam shall be used for bending the core material, The material and process for manufacturing the door shutters shall conform to RV-TIFAC composites Design Centre's standards and specifications and the door shutters Conforming to relevant I.S specification. The finish of door shutter will be plain colour white/ Ivory/ Beige/ Light grey/ Mahogany/ Teak wood or any other colour using high quality pigments. Three heavy weight mild steel butt hinges type-I (ISI marked) size 100mm are to be fitted on one side of shutter.	5.09	Sqm	3430.60	17470.33
17	Providing and fixing factory made UPVC white colour Louvers etc. Profile of frame and sash shall be mitered cut and fusion welded at all corners, including drilling of holes for fixing hard ware's and drainage of water etc. After fixing frame the tap between frame and adjacent finished wall shall be filled with weather proof silicon sealed over backer rod of required size and of approved quality, all completes as per approved drawing and direction of Engineer-in-charge. Glass will be of 5mm thick dark Grey of saint goblin or similar.	1.51	Sqm	8500.00	12852.00
18	Providing and fixing M.S grill of required patterns for windows/verandahs etc. with M.S flats, square or round bars etc. excluding applying a coat of approved steel primer and two or more coats of synthetic enamel paint of approved make & shade, all complete as per drawing & specification. (All steel sections contractors own supply).	30.24	Sqm	150.00	4536.00
19	Providing & Painting with 2 Coats of synthetic enamel paint including Primer of approved brand and manufacture to give an even shade as per the instruction of Engineer-In-Charge at all floors and all heights including all material & labour complete.	1.51	Sqm	215.90	326.44
INTERNAL & EXTERNAL PLUMBING WORKS FOR RENOVATION OF CONFERENCE HALL					
1	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC / UPVC) pipes conforming to IS: 15778, 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 (20mm dia C-PVC pipes)	46.00	Mtr	391.84	18024.64
a	25mm dia C-PVC pipes	56.00	Mtr	569.00	31864.00
b	32mm dia UPVC ASTM-D pipes	55.00	Mtr	436.50	24007.50
2	Supplying all materials, labour, T&P and cutting holes through existing brick work including making good the damages in cement mortar (1:4) for taking GI pipes and fittings/ PVC pipes and fittings etc all complete as per PH specification and direction of the Engineer in charge. (250mm thick wall)	35.00	Each	59.60	2086.00

3	Supplying all materials, labour, T&P and cutting holes through existing brick or laterite masonry wall for taking HCl pipes and fittings including making good the damages etc all complete as per PH specification and direction of the Engineer in charge. (250mm to 375mm thick wall.)	30.00	Each	210.60	6318.00
4	Supplying all materials, labour, T&P and cutting grooves in pucca floors and walls for taking GI/ PVC pipes and making good the damages as per the direction of the Engineer in charge.	60.00	Mtr	234.00	14040.00
5	Supplying all materials, labour, T&P and fitting and fixing brass/CP fittings of the following nominal bore with supply of all jointing materials complete as per specification and direction of the Engineer in charge. (15mm dia CP Bib cock (Jaquar) FLR-CHR-5047N)				
a	15mm dia CP Pillar cock (Jaquar) FLR-CHR-5015	3.00	Each	1796.40	5389.20
b	15mm dia CP Angle stop cock (Jaquar) FLR-CHR-5053N	11.00	Each	1181.20	12993.20
c	32mm dia CP Bottle trap (Jaquar) ALD-CHR-769L250x190	3.00	Each	1648.70	4946.10
d	32mm dia CP Waste couple (Jaquar) ALD-CHR-709	8.00	Each	492.20	3937.60
e	25mm dia CPVC Ball valve	4.00	Each	286.20	1144.80
f	32mm dia CPVC Ball valve	4.00	Each	500.60	2002.40
g	40mm dia CPVC Ball valve	4.00	Each	770.60	3082.40
h	50mm dia CPVC Ball valve	4.00	Each	901.00	3604.00
i	15mm dia CP Flange	4.00	Each	40.30	161.20
j	CP double coat hook (Jaquar) ACN-CHR-1161N	3.00	Each	541.40	1624.20
k	125mm dia CP Grating	4.00	Each	84.10	336.40
l	15mm dia CP Health Faucet(Jaquar)ALD-CHR-577	3.00	Each	1698.00	5094.00
m	15mm dia CP Two way Bib cock (Jaquar) FLR-CHR-5041N	3.00	Each	2140.90	6422.70
n	32mm dia CP Urinal Flush valve (Jaquar) PRS-CHR-073	4.00	Each	2633.10	10532.40
o	Toilet Paper Holder (Jaquar) ACN-CHR-1153S	3.00	Each	1205.80	3617.40
p	15mm dia CP Extension piece	5.00	Each	59.30	296.50
6	Supplying all materials, labour, T&P and fixing wash basins with hole for pillar taps conforming to IS:2556-part-4-2004 with cast iron or M S brackets painted white including cutting holes in walls and making good the damages with supply of wooden plugs, screws and cement etc, fixing pedestal for wash basin recessed at the back for the reception of pipes and fittings, fixing PVC waste pipe of 32mm nominal diameter for wash basin including brass check nut complete, fixing pillar taps capstan head screw down high pressure lettered 'Hot' and 'Cold' with long screws, shanks and back nuts of 15mm dia nominal bore(Jaquar Florentine Elbow Action make), fixing 15mm dia PVC inlet connection pipe and making connection with pillar cocks and supply mains for wash basin, fixing 32mm dia CP brass waste (Jaquar make-Allied), etc all complete as per specification and direction of the Engineer in charge. (Wall hung basin with fixing accessories (Jaquar) FNS-WHT-40801)	3.00	Each	4429.40	13288.20
7	Supplying all materials, labour, T&P and fixing water closet duly embedded in cement concrete (1:5:10) using 4cm size hard granite metal all complete as per specification and direction of the Engineer in charge. EWC Single piece water closet with PP Soft close seat (Jaquar) SLS-WHT-6851S220PP	3.00	Each	19194.30	57582.90
8	Supplying all materials, labour, T&P and fixing bowl pattern urinal including connecting the urinal with waste pipe by means of white lead mixed with chopped hemp etc all	4.00	Each	8356.90	33427.60

	complete as per specification and direction of the Engineer in charge. (Half Stall Urinal (Jaquar) URS-WHT-0703).				
9	Supplying all materials, labour, T&P and fitting and fixing U-PVC SWR soil waste ventilating pipes and fittings of the following outside diameter conforming to ISI No. 13592/1992 to walls with nails, bobbins and wooden plugs or laying in trenches including jointing with supply of approved rubber lubricant by non-heat application method/as per manufacturer's specification, testing, earthwork in excavation in all kinds of soil and refilling of trenches as per specification and direction of the Engineer in charge.				
a	(110mm dia U-PVC SWR pipe (Supreme/Ashirvad)	50.00	Mtr	458.80	22940.00
b	110mm U-PVC Door Tee	8.00	Each	386.00	3088.00
c	110mm U-PVC Plain Tee	8.00	Each	322.70	2581.60
d	110mm U-PVC Plain Bend	4.00	Each	232.00	928.00
e	110mm U-PVC Door Bend	6.00	Each	293.60	1761.60
f	110mm dia U-PVC 'P' trap	2.00	Each	497.30	994.60
g	110mm U-PVC Cowl.	1.00	Each	58.20	58.20
h	50mm dia U-PVC SWR pipe (Supreme/Ashirvad)	20.00	Mtr	304.10	6082.00
i	50mm U-PVC Plain Bend	5.00	Each	184.00	920.00
10	Supplying all materials, labour, T&P and fixing mirror of superior glass mounted on 6mm thick A.C sheet or plywood sheet and fixed to wooden plugs with CP screws and washers complete as per specification and direction of the Engineer in charge. (Design Mirror)	3.00	Each	1566.70	4700.10
11	Supplying all materials, labour, T&P and fixing standard sized glass-shelf with CP brass brackets and guard rails complete fixed to wooden plugs with CP screws as per specification and direction of the Engineer in charge. (600mm Glass Shelf (Jaquar) ACN-CHR-1171N)	3.00	Each	1255.00	3765.00
12	Supplying all materials, labour, T&P and fixing standard sized CP towel rail complete with CP brass brackets fixed to wooden plugs with CP screws as per specification and direction of the Engineer in charge.				
a	(600mm long CP Towel Rail (Jaquar) ACN-CHR-1111NM)	2.00	Each	1156.60	2313.20
b	CP Towel Ring (Jaquar) ACN-CHR-1121N	2.00	Each	1279.60	2559.20
c	Soap Dispenser with Glass Bottle (Jaquar) ACN-CHR-1135N	6.00	Each	1328.80	7972.80
13	Factory made Solid WPC door frame of size 90mmx45mm fabricated. The door frame consists of four segments which are provided with plug-in-socket arrangement in-situ in the mould. The segments are plugged in and are joined together by means of screw. The WPC frame shall be provided with The material and process for manufacturing the door frames shall conform to Relevant I.S specification. The finish of door frame will be plain colour white/ Ivory/ Beige/ Light grey/ Golden brown/Mahogany/ Teak wood/sand stone/Champagne/Pastel blue or any other colour using high quality pigments complete in all respect as per specification and direction of the Engineer in charge				
	1x3x5.05 =	15.15	Sqm	1114.3	16881.65

14	Factory made single leaf Solid WPC (Wood polymer) composite door shutter of 25mm thick compacted with wood grain finish structural foam panel of 29mm thickness and a density of 650kg/cu.mtr shall be used as core material for fitting the metal fittings such as tower bolts, aldrops, handles etc shall be provided. A structural adhesive compatible with (EPS) foam shall be used for bending the core material, The material and process for manufacturing the door shutters shall conform to RV-TIFAC composites Design Centre's standards and specifications and the door shutters Conforming to relevant I.S specification. The finish of door shutter will be plain colour white/ Ivory/ Beige/ Light grey/ Mahogany/ Teak wood or any other colour using high quality pigments. Three heavy weight mild steel butt hinges type-I (ISI marked) size 100mm are to be fitted on one side of shutter.				
	1x2x2.10x0.85 =	3.57	Sqm	3430.6	12247.24
15	Supplying all materials, labour, T&P and providing 12mm thick cement plaster (1:4) on brickwork including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge	35.70	Sqm	184.2	6575.94
16	Supplying all materials, labour, T&P and providing cement concrete (1:2:4) with 12mm size hard broken granite chips including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge	2.00	Cum	10179.30	20358.60
17	Supplying all materials, labour, T&P and providing fitting and fixing (Aqua guard) Pure Chill 80 PSS UV of size 750x570x1350mm height with water storage capacity 80 liters along with 2 nos of faucets 1 for cold water and 1 for normal water including a flow of 1.5 ltr per minute etc all complete as per approved drawing, specification and direction of the Engineer in charge.				
a	(Aqua guard) Pure Chill 80 PSS UV	1.00	Each	128852.00	128852.00
18	Providing and laying Sika top seal 109 hi over roof top slab and parapet, toilet inside after cleaning of surface and applied with a coat of Sika 109 hi primer as per approved specification. The Sika shall be laid between two coats of water proofing membrane and the entire application cover with Sika top seak hi curing, compound of all materials and cost of labour T&P etc. complete as per the direction of the Engineer-in-charge.	123.90	sqm	737.55	91382.45
19	Providing and fixing factory made UPVC white colour Louvers etc. Profile of frame and sash shall be mitered cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the tap between frame and adjacent finished wall shall be filled with weather proof silicon sealed over backer rod of required size and of approved quality, all completes as per approved drawing and direction of Engineer-in-charge. Glass will be of 5mm thick dark Grey of saint gobain or similar				
	3x0.80x0.60 =	1.44	Sqm	10889.10	15680.30
20	Supplying all materials, labour, T&P and providing Cubicle partition for urinal etc. all complete as per direction of the Engineer-in-charge.(Marino urinal partition)	3.00	Each	5226.80	15680.40

21	Supplying all materials, labour, T&P and fixing of Granite tiles in dados skirting on 12mm thick cement plaster (1:3) jointed with neat cement slurry mixed with pigments to match the shades of the tiles including rubbing and polishing complete as per direction of the Engineer in charge				
a	1x1.67x0.75 =	1.25			
b	1x1.67x0.75 =	1.25			
	Total	2.51	Sqm	2736.90	6855.93
	INTERNAL & EXTERNAL ELECTRIFICATION AND ALLIED WORKS				
	INTERNAL				
A	Sub-Head I (modular Wiring Items)				
1	Recessed wiring to light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLSH/LSZH PVC insulated copper conductor of ISI marked Make-Finolex/Anchor/Polycab/HAVELLS/RR KABLE/KEI or equivalent reputed make A category ISI marked as approved with 20 mm dia PVC flexible non metallic conduit FRLS type ISI marked Make-AKG/Anchor/Havells or equivalent reputed make A category ISI marked as approved 6A modular type (anti bacterial & flame retardant type) switch ISI marked Make-Schneider(Zencelo)/legrand(MIYUS) /Panasonic (vision) or equivalent reputed make & model A category ISI marked as approved, and ceiling rose ISI marked Make-Anchor/Havells of modular type G.I box with metallic cover plate (both side) (anti bacterial & flame retardant type) Make-Schneider (Zencelo)/ legrand(MIRUS) /Panasonic (vision) or equivalent reputed make & model A category ISI marked as approved of suitable size, modular box with 1.5 sq. Mm FRLSH PVC insulated single core multi standard copper conductor as earth wire including all accessories and connection as per direction of Engineer -in -Charge.				
	GROUP-A	118.00	Nos	563.00	66434.00
	GROUP-B	59.00	Nos	809.00	47731.00
	GROUP-C	30.00	Nos	1118.00	33540.00
b	Group control of point in Recessed wiring to light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLSH/LSZH PVC insulated copper conductor of ISI marked Make- Make- Finolex/ Anchor/ Polycab/ HAVELLS or equivalent reputed make A category ISI marked as approved as approved 20 mm dia PVC flexible non metallic conduit FRLS type ISI marked Make-AKG/Anchor/Kinjal or equivalent reputed make A category ISI marked as approved with 6A modular type((anti bacterial & flame retardant type)) switch ISI marked Make-Schneider(Zencelo)/legrand(Arteor) /Panasonic (vision) or equivalent reputed make & model A category ISI marked as approved, and ceiling rose ISI marked Make-Schneider(Zencelo)/legrand(myrius) /Panasonic (Equivalent model) or equivalent reputed make & model A category ISI marked as approved of modular type G.I box with metallic cover plate (both side)(anti bacterial & flame retardant type) Make-Schneider(Zencelo)/ legrand(MIRUS) /Panasonic (vision) or equivalent reputed make & model A category ISI	62.00	Nos	1056.78	65520.36

	marked as approved, of suitable size, modular box with 1.5 sq. Mm FRLS PVC insulated single core multi standard copper conductor as earth wire including all accessories and connection as per direction of Engineer -in -Charge. CATAGORY AS FOLLOWS, complete suitable for OFFICE.				
c	Supplying ,fixing of 6A Plug on the same board in existing switch board with complete fitting by 01 no of 6A switch & socket (modular type)(anti bacterial & flame retardant type) & other required accessories of ISI marked as approved as per direction of Engg. -in -Charge. Make-Schneider(Zencelo)/legrand(MIRUS) /Panasonic (vision) or equivalent reputed make & model A category ISI marked as approved, complete suitable for IPH standard hospital.(Maximum 02 no's point in one circuit).All the switches & sockets should be warranted for a replacement period of 5 years against defects with necessary test report & Warranty certificate to be submitted to the department for genuinely of product & to avail free after sales service within warranty period for acceptance of materials.	18.00	Nos	193.00	3474.00
d	Supplying, fixing of 6A Plug on the separate board with complete fitting by 01 no of 6A switch & socket (modular type)(anti bacterial & flame retardant type) with suitable size modular box & cover(anti bacterial & flame retardant type) including supplying of all required accessories of ISI marked as approved as per direction of Engg-in-charge.. Make-Schneider (Zencelo)/legrand(MIRUS) /Panasonic (vision) or equivalent make & model ISI marked as approved , complete suitable for office.(Maximum 02 no's point in one circuit).	28.00	Nos	514.00	14392.00
e	Supplying, fixing of 1x16A Plug on the separate board with complete fitting by 01 no of 16A switch & socket (modular type)((anti bacterial & flame retardant type) with suitable size modular box & cover(anti bacterial & flame retardant type) including supplying of all required accessories of ISI marked as approved as per direction of Engg-in-charge.. Make-Schneider (Zencelo)/ legrand(Arteor) /Panasonic (vision)or equivalent reputed make A category ISI marked as approved, (For equipment power)	12.00	Nos	651.00	7812.00
f	Supplying, fixing of 2x6A+1X1 6A Plug on the separate board with complete fitting by 01 no of 16A+2 no 6A switch & socket (modular type) (anti bacterial & flame retardant type) with suitable size modular box & metallic cover plate (both side)(anti bacterial & flame retardant type)including supplying of all required accessories of ISI marked as approved as per direction of Engg-in-charge.. Make-Schneider(Zencelo)/legrand(MIRUS) /Panasonic (vision)or equivalent reputed make & model A category ISI marked as approved, (For equipment power) complete suitable for OFFICE. (Maximum 02 no's point in one circuit).	8.00	Nos	1394.00	11152.00
g	Supplying, fixing of 3x6A+1X1 6A Plug on the separate board with complete fitting by 01 no of 16A+3 no's 6A switch & socket (modular type) (anti bacterial & flame retardant type) with suitable size modular box & metallic cover plate (both side)(anti bacterial & flame retardant type)including supplying of all	2.00	Nos	1995.00	3990.00

	required accessories of ISI marked as approved as per direction of engg-in-charge.. Make-Schneider(Zencelo)/legrand(MIRUS) /Panasonic (vision)or equivalent reputed make & model A category ISI marked as approved, (For equipment power) complete suitable for hostel.(Maximum 02 no's point in one circuit).				
2	Recess wiring for circuit/sub main wiring with the following mentioned size PVC FRLSH/LSZH insulated, copper conductor, single core cable (Finolex/Anchor/Polycab/HAVELLS/RR KEBLE) or equivalent reputed make A category ISI marked as approved, in recessed PVC conduit Heavy duty FRLS of mentioned size (AKG/Anchor/Kinjal or equivalent ISI marked as approved) as required as per direction of Engg.-in-Charge. Necessary test report & Warranty certificate to be submitted to the department for genuinity of product & to avail free after sales service within warranty period for acceptance of materials				
a	2 no's single core 1.5 sq. mm copper wire for phase and neutral and 01 no of single core 1.5 sq. mm copper wire for earth continuity conductor. In 20 mm dia non metallic heavy duty flexible conduit (LDB to LSB/LIGHT CKT)(2X1.5+1X1.5)	1244.00	Mtr	135.00	167940.00
b	2 no's single core 2.5 sq. mm copper wire for phase and neutral and 01 no of single core 1.5 sq. mm copper wire for earth continuity conductor in 20 mm dia non metallic heavy duty flexible conduit.(BDB to LSB/LIGHT CKT/5A PLUG/INVERTER POINT TO EACH QTR) (2X2.5+1X1.5)	3222.00	Mtr	149.00	480078.00
c	4 no's single core 2.5 sq. mm copper wire for phase and neutral and 02 no's of single core 2.5 sq. mm copper wire for earth continuity conductor .in 25 mm dia non metallic heavy duty flexible conduit(LDB to LSB/5A SOCKET) (4X2.5+2X2.5)	1510.00	Mtr	267.00	403170.00
d	2 no's single core 4 sq. mm copper wire for phase and neutral and 01 no of single core 1.5 sq. mm copper wire for earth continuity conductor in 20 mm dia non metallic heavy duty flexible conduit .(PDB to PSB/ GAYSER POINT/AC POINT/ROOM LIGHT CONTROL TO CORRIDOOR POINT/DG PANEL ESSENTIAL LOAD) (2X4+1X1.5)	544.00	Mtr	167.00	90848.00
e	4 no's single core 4 sq. mm copper wire for phase and neutral and 02 no's of single core 2.5 sq. mm copper wire for earth continuity conductor in 32 mm dia non metallic heavy duty flexible conduit.(PDB to PSB/GAYSER. POINT/AC POINT/DG PANEL ACCL TO EACH QTR ESSENTIAL LOAD) (4X4+2X2.5)	233.00	Mtr	249.00	58017.00
f	2 no's single core 6 sq. mm copper wire for phase and neutral and 01 no of single core 2.5 sq. mm copper wire for earth continuity conductor in 25 mm dia non metallic heavy duty flexible conduit .(LFDB TO LBDB) (2X6+1X2.5)	244.00	Mtr	198.00	48312.00
g	4 no's single core 6 sq. mm copper wire for phase and neutral and 02 no's of single core 2.5 sq. mm copper wire for earth continuity conductor in 32 mm dia non metallic heavy duty flexible conduit.(LFDB TO LBDB/power unit/point) (4X6+2X2.5)	200.00	Mtr	295.00	59000.00
h	4 no's single core 10 sq. mm copper wire for phase and neutral and 02 no's of single core 4 sq. mm copper wire for earth continuity conductor in 32 mm dia non metallic heavy duty flexible conduit .(LFDB TO FLOOR PANEL TO TPN BDB light) (4X10+2X4)	288.00	Mtr	423.00	121824.00

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3	Supplying and fixing 20 amps, 240 volts, SPN, industrial type socket outlet, with 2 pole and earth metal enclosed plug top along with 32 amps. C-series, SP MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket outlet, and complete with connections, testing and commissioning etc. as required as per direction of Engg.-in-Charge.... Make-Legrand/Schneider/Siemens/ panasonic or equivalent reputed make & model A category ISI marked as approved, All the Components should be warranted for a replacement period of 5 years against defects with necessary test report & Warranty certificate to be submitted to the department for genuine of product & to avail free after sales service within warranty period for acceptance of materials.	16.00	Nos	625.00	10000.00
4	Supplying and fixing following size/ modules, GI box along with modular base & metallic cover plate (both side)(anti bacterial type) plate for modular switches in recess etc as required as per direction of Engg.-in-Charge. MAKE-Legrand/Siemens/Anchor/Panasonic/Schneider or equivalent reputed make & model A category ISI marked as approved .All the Components should be warranted for a replacement period of 5 years against defects with necessary test report & Warranty certificate to be submitted to the department for genuine of product & to avail free after sales service within warranty period for acceptance of materials.				
a	4 moudle(125mmx75mm)	12.00	Nos	271.00	3252.00
b	1 moudle(75mmx75mm)	12.00	Nos	224.00	2688.00
c	12 moudle(200mmx150mm)	6.00	Nos	486.00	2916.00
5	Supplying and fixing of following sizes of medium class PVC FRLS conduit ISI marked along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required as per direction of Engg.-in-Charge .MAKE KINJAL/ AKG/Anchor or equivalent reputed make A category ISI marked as approved				
a	20 MM	88.00	mtr	102.00	8976.00
b	25 MM	45.00	mtr	104.00	4680.00
6	Supply and fixing modular type indicator on the existing switch box/cover. Equivalent higher model of Schneider/ Hager/ Siemens/ Anchor/ Panasonic make or equivalent reputed make & model A category ISI marked as approved as required as per direction of Engg.-in-Charge.	16.00	nos	105.00	1680.00
7	Supplying and installation of AC starter Modular type, Equivalent higher model of Schneider/ Hager/ Siemens/ Anchor/Panasonic make or equivalent reputed make & model A category ISI marked as approved coil voltage-415 Volt A.C. & O/L range of 9-14A range on mod Box of suitable size including modular cover as required as per direction of Engg.-in-Charge .	16.00	Nos	617.00	9872.00
8	Supply and fixing CALL bell (Ding dong type) /Buzzer on the existing switch box/cover. Equivalent higher model of Schneider/Hager/Siemens/Anchor/Panasonic make or equivalent reputed make & model A category ISI marked as approved .as required as per direction of Engg.-in-	2.00	Nos	206.00	412.00

	Charge. All the Components should be warranted for a replacement period of 5 years against defects with necessary test report & Warranty certificate to be submitted to the department for genuine of product & to avail free after sales service within warranty period for acceptance of materials.				
9	S/F of Bakelite angle holder/batten holder (make- Anchor/Havells/Panasonic or equivalent reputed make A category ISI marked as approved)of ISI marked conforming to IS-1258/1987 in place of ceiling rose as per direction of Engg.-in-Charge .All the Components should be warranted for a replacement period of 5 years against defects with necessary test report & Warranty certificate to be submitted to the department for genuine of product & to avail free after sales service within warranty period for acceptance of materials.	12.00	each	63.00	756.00
10	Supplying, fixing of Blanking plate(modular type)(anti bacterial & flame retardant type) in existing switch box(anti bacterial & flame retardant type) including supplying of all required accessories of ISI marked as approved as per direction of Engg-in-charge.. Make-Schneider (Zencelo)/legrand(MIRUS) /Panasonic (vision), complete suitable ..	12.00	Nos	43.00	516.00
B	Sub-Head II (Light fitting Fixture & Fan)				
1	Supplying, installation, of exhaust fan of heavy duty 300 mm sweep (Make-Equivalent higher model with 5 star rated of Havells/almonard/Anchor/Panasonic/Usha or equivalent reputed make & model A category ISI marked as approved) of exhaust fan in the existing wall, including fixing & connection as required as per direction of Engg.-in-Charge. Replacement Warranty will be 5 years.	4.00	Nos	3144.00	12576.00
2	Supplying, installation, of exhaust fan of heavy duty 380 mm sweep 1400 rpm with louvers Make-Equivalent higher model with 5 star rated of Havells/almonard/ Anchor/ Panasonic/ Usha or equivalent reputed make & model A category ISI marked as approved) of exhaust fan in the existing wall, including fixing & connection .as required as per direction of Engg.-in-Charge. Replacement Warranty will be 5 years.	4.00	Nos	5546.00	22184.00
3	Supplying, installation, testing and commissioning of 1400 mm sweep white/milky colour ceiling fan Make-Equivalent higher model with 5 star rated of Havells/ almonard/ Anchor/ Panasonic/Usha or equivalent reputed make & model A category ISI marked as approved) including wiring the down rod of standard length (up to 30 cm) with 1.5 sq mm PVC insulated, copper conductor, single core cable etc. as required.(With fan Regulator) as required as per direction of Engg.-in-Charge. Replacement Warranty will be 5 years.	8.00	Nos	2671.00	21368.00
4	Supplying, installation, testing and commissioning of 1200 mm sweep white/milky colour ceiling fan Make-Equivalent higher model with 5 star rated of Havells/almonard/Anchor/Panasonic/Usha or equivalent reputed make & model A category ISI marked as approved) including wiring the down rod of standard length (up to 30 cm) with 1.5 sq mm PVC insulated, copper conductor, single core cable etc. as required as per direction	8.00	Nos	2481.00	19848.00

	of Engg.-in-Charge, Replacement Warranty will be 5 years.. (With fan Regulator)				
5	Supplying and fixing of Energy efficient surface mounted square shape 20 W LED luminary of dimension of 225x 225 x 35 mm consists of white powder coated , die-cast Aluminum housing with high quality frosted diffuser for glare-free uniform lighting distribution with wattage not more than 20 watt and lumen output of 1500 lumens , , CRI not less than 80,CCT of 6000 degree K,THD less than 10%, with electronic driver, internal surge protection of 2.5 KV , L70 B50: 30000 hrs (2 yrs warranty) and all other accessories suitable for operation on 220 V to 240 V supply as required as per direction of Engg.-in-Charge. (Make : Philips or equivalent reputed make & model A category ISI marked as approved).The luminary should be Replacement Warranty will be 5 years	50.00	Nos	1524.00	76200.00
6	Supplying and fixing of Energy efficient recess mounted LED luminary with white powder coated ,pressure die-cast Al housing ,with high transmittivity, non-yellowing PMMA diffuser, with wattage not more than 36 watt and lumen output not less than 6600 Lumen (100 lumens/watt) of size 595 x595 x 70 mm , ,CRI not less than 80,CCT of 5700-6500 degree K,THD less than 10%, with Non integrated isolated driver (protects the output /secondary side from any disturbance on the input / primary side ensuring safe operation), all other accessories , life : 50,000 burning hours (5 years warranty) , Internal surge protection of 3 KV suitable for operation on 230 V, 50 Hz supply as required as per direction of Engg.-in-Charge. (Make: Philips or equivalent reputed make & model A category ISI marked as approved or equivalent reputed make & model A category ISI marked as approved.) The luminary should be Replacement Warranty will be 5 years.	60.00	Nos	5754.00	345240.00
7	SITC of energy efficient LED tube light fittings with decorative aluminum batten and LED tube light having power rating not more than 20 watt and lumen output not less than 2200 lumen complete with electronic driver and all other accessories with diffuser having 5 years warranty i/c connection etc as required as per direction of Engg.-in-Charge. (Similar to Philips or equivalent reputed make & model A category ISI marked as approved or equivalent reputed make & model A category ISI marked as approved.) The luminary should be Replacement Warranty will be 5 years.	24.00	Nos	803.00	19272.00
8	SITC of Sleek LED 10 watt mirror light fitting with extruded polycarbonate housing, High optically efficient diffuser, above wash basin complete with all accessories etc. directly on wall, including connection with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required as per direction of Engg.-in-Charge. (Make: Philips or equivalent reputed make & model A category ISI marked as approved or equivalent reputed make & model A category ISI marked as approved.) The luminary should be Replacement Warranty will be 5 years	6.00	Nos	738.00	4428.00
9	Supplying and fixing of Energy efficient recess mounted square shape 20 W LED luminary of dimension of 225x 225 x 35 mm consists of white powder coated , die-	60.00	Nos	2348.00	140880.00

	cast Aluminum housing with high quality frosted diffuser for glare-free uniform lighting distribution with wattage not more than 20 watt and lumen output of 1500 lumens, , CRI not less than 80,CCT of 6000 degree K,THD less than 10%, with electronic driver, internal surge protection of 2.5 KV , L70 B50: 30000 hrs (2 yrs warranty) and all other accessories suitable for operation on 220 V to 240 V supply as required as per direction of Engg.-in-Charge. (Make : Philips or equivalent reputed make & model A category ISI marked as approved).The luminary should be Replacement Warranty will be 5 years				
10	Supply ,installation testing commissioning of 45W, High efficient LED Double height with aluminum housing in Pure Polyester UV resistant powder coated black finish,2m down rod with mounting arrangement and Top maintainable product with top opening die cast cover with acrylic clear glass reflector.CRI>70, IP66, Ambient temp-0 to 45DegC, Driver efficiency>85%, CCT-4000/5700K, THD<10%,Powerfactor>0.95, Surge protection-4 kV, Multistage Isolated Constant Current-Constant Voltage operated driver with range 150-300V AC and Safety Extra Low Voltage Safe level<60V DC as per IEC standard. Luminary lumen ≥ 4275 lumens (110 lm/W). Similar to Wipro Make LP07---- or equivalent Philips/ LT/Trilux make. & model A category, ISI marked as approved, with proper model make having warranted for a period of 2 years. The luminary to be installed through moveable G.I bracket as per the direction of Engg-in -charge.	6.00	Sets	5436.00	32616.00
11	SITC of IP 20 Non-integral flexible LED strip light, High optically efficient diffuser,, 4000K with 12 w/mtr @ 5Mtr pool with Driver extra as required as per direction of Engg.-in-Charge (Make : Panasonic Model No:PSLM06604 with Driver model no.PSL0S6003 or similar model of /PHILIPS/Wipro/jaquar or equivalent reputed make & model A category ISI marked as approved.)The luminary should be Replacement Warranty will be 5 years	12.00	Nos	2631.00	31572.00
12	Supplying and fixing of small focus light for small monuments as 30W, 5700 K required as per direction of Engg.-in-Charge Make: Panasonic Model NO: PFLM11308 or similar model of /PHILIPS/LTWIPRO or equivalent reputed make & model A category ISI marked as approved.)The luminary should be Replacement Warranty will be 5 years	8.00	Nos	3345.00	26760.00
13	Supplying and fixing extra conduit down rod of 20 cm length G.I. pipe 15 mm dia, heavy gauge including painting etc. as required as required as per direction of Engg.-in-Charge . (Note: More than 5 cm length shall be rounded to the nearest 10 cm and 5 cm or less shall be ignored) of ISI mark as approved.	50.00	Nos	33.00	1650.00
C	BDDBS,DB,AC DB,FLOOR PANELS,MCBS				
1	Supplying and fixing of following mentioned way, three pole/single pole and neutral, sheet steel, double door MCB distribution board, 415 volts/240 volts shall be as per IEC 61439-3,integrated door earthing system offering additional safety to the user, High quality polyurethane Gasket, the box and cover shall be fabricated to withstand IK09,the DB should be properly pre-treated with 7 tank process and duly				

	powder coated, phosphatized with powder coated finish, on surface/recess, complete with terminal blocks, with suitable size FR PVC insulated copper conductor up to terminal blocks, tinned copper bus bar, neutral bus bar, earth bar, din bar. Make-LEGRAND-Ekinox3 DB/ Siemens-Beta guard/ Schneider- Acti 9/Panasonic (Equivalent model) /ABB(Equivalent model) or equivalent reputed make & model A category ISI marked as approved. as per direction of Engg.-in-Charge. The Distribution boards should be Replacement Warranty will be 5 years				
a	4 Way (8+12) Way TPN MCB DD DB Horizontal Type as per IEC 61439-3 suitable for Flush mounting and Surface mounting with 100A Copper Bus Bar for each phase, with neutral Bus bar, Earth Bar & Cable ties for cable management, profited masking sheet, IP43-IK09 with metal door(FOR LIGHT,POWER INDOOR,3-PH,POWER LOAD) Warranty on DB is 2 years.	3.00	Nos	2176.00	6528.00
b	Supply and fixing of 12 way DD single pole and neutral sheet steel MCB distribution board 250V on surface/recess complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, detachable gland plate, interconnections, phosphatized and powder painted including earthing etc. as required (but without MCB/ RCCB/ Isolator) (ALL LIGHT WITH CORRIDOOR/COMMON AREA,EM LIGHT,UPS LOAD, EM LOAD LIGHT LOAD,POWER LOAD)	2.00	Nos	1915.00	3830.00
c	2+4 way MCB Enclosure DB (GLAZED door)(only each EM. CONNECTION UPS LOAD)	1.00	Nos	1642.00	1642.00
d	8 Way (8+18) Way TPN MCB DD DB Horizontal Type as per IEC 61439-3 suitable for Flush mounting and Surface mounting with 100A Copper Bus Bar for each phase, with neutral Bus bar, Earth Bar & Cable ties for cable management, pre fitted masking sheet, IP43-IK09 with metal door(FOR LIGHT,POWER INDOOR,3-PH,POWER LOAD) Warranty on DB is 2 years.	1.00	Nos	2711.00	2711.00
2	Supplying and fixing 20 amps rating, 240 volts, C series, Double poles MCB of Make-LEGRAND-Ekinox3 DB/ Siemens-Betaguard/ Schneider- Acti 9/L&T (Equievalant model)/Panasonic(Equivalent model) /ABB(Equivalent model) or equivalent reputed make & model A category ISI marked as approved in the existing MCB DB complete with connections as per direction of Engg.-in-Charge. The MCB should be Replacement Warranty will be 5 years .MCB should have the fault indication system in different colour for ON, OFF & TRIP condition or Mid trip position for Trip conditions for easier identification of fault. Warranty on MCB is 5 years.	6.00	Nos	335.23	2011.38
3	Supplying and fixing 6 amps to 32 amps rating, 240 volts, C series, single poles MCB of Make-LEGRAND-Ekinox3 DB/ Siemens-Betaguard/ Schneider- Acti 9/L&T (Equivalent model)/Panasonic(Equivalent model) /ABB(Equivalent model) or equivalent reputed make & model A category ISI marked as approved. The existing MCB DB complete with connections as per direction of Engg.-in-Charge. The MCB should be Replacement Warranty will be 5 years. MCB should have the fault indication system in different colour for ON, OFF & TRIP condition or Mid trip position for Trip conditions for easier identification of fault. Warranty on MCB is 5 years.	60.00	Nos	134.00	8040.00

4	Supplying and fixing 40 Amps rating, TPN, 415 volts, RCCB,300mA .Make-Equivalent higher model of Legrand/Snheider/Siemens / L&T/Panasonic /ABB or equivalent reputed make & model A category ISI marked as approved in the existing MCB DB complete with connections, testing and commissioning etc. as required as per direction of Engg.-in-Charge. (4W TPN BDB IC)AC ODU CONTROLLER). The RCCB should be Replacement Warranty will be 5 years	2.00	Nos	2252.00	4504.00
5	Supplying and fixing 25Amps DP 240 volts, RCCB, 300mA Make-Equivalent higher model of Legrand/Snheider/Siemens / L&T/Panasonic /ABB or equivalent reputed make & model A category ISI marked as approved in the existing MCB DB in the existing MCB DB complete with connections as per direction of Engg.-in-Charge. The RCCB should be Replacement Warranty will be 5 years	2.00	Nos	1692.00	3384.00
6	Supplying and fixing 40Amps DP 240 volts, RCCB, 300mA Make-Equivalent higher model of Legrand/Snheider/Siemens / L&T/Panasonic /ABB or equivalent reputed make & model A category ISI marked as approved in the existing MCB DB in the existing MCB DB complete with connections as per direction of Engg.-in-Charge. The RCCB should be Replacement Warranty will be 5 years	2.00	Nos	1929.00	3858.00
7	Supplying and fixing 63Amps DP 240 volts, RCCB,300mA Make-Equivalent higher model of Legrand/Snheider/Siemens / L&T/Panasonic /ABB or equivalent reputed make & model A category ISI marked as approved in the existing MCB DB in the existing MCB DB complete with connections as per direction of Engg.-in-Charge. The RCCB should be Replacement Warranty will be 5 years	2.00	Nos	2224.00	4448.00
8	Supplying and fixing 63Amps TPN 415 volts, RCCB,300mA Make-Equivalent higher model of Legrand/Snheider/Siemens / L&T/Panasonic /ABB or equivalent reputed make & model A category ISI marked as approved in the existing MCB DB in the existing MCB DB complete with connections as per direction of Engg.-in-Charge.(for power BDB & AC ODU, 8 way TPN BDB IC).The RCCB should be Replacement Warranty will be 5 years	2.00	Nos	2648.00	5296.00
D	(Earthing) INSTALLATION				
1	S/IT/C Of Earthing with copper earth plate 600 mm x 600mm x 6 mm thick ISI marked including accessories and providing masonry with cover plate having locking arrangement and watering pipe etc (WITH charcoal and salt) as required as per direction of Engg.-in-Charge. The entire earthing system should be Replacement Warranty will be 5 years	2.00	Nos	13930.00	27860.00
2	S/IT/C of materials and installation of pipe earth electrode made out of 50mm dia class B G.I. pipe of 3.0 meter long with arrangements for fitting/ termination of G.I. flat / wire with G. I. nut bolts & washers including cost of burnt wood charcoal, salt, foreign soil, water pouring arrangements, brick masonry enclosure on top with removable RCC cover complete with labour for excavation of pit in all kinds of soil & rock as required and as per direction of Engineer-in-charge. The entire earthing system should be Replacement Warranty will be 5 years	2.00	Nos	2548.00	5096.00

3	Providing and fixing 4 mm dia copper wire on surface or in recess for loop earthing as required. As per direction of Engg.-in-Charge.	200.00	Mtr	98.00	19600.00
4	Providing and fixing 25mm x 5 mm copper strip on surface or in recess for connections etc. as required as per direction of Engg.-in-Charge.	12.00	Mtr	1100.00	13200.00
5	Providing and fixing 50mm x 5 mm copper strip on surface or in recess for connections etc. as required as per direction of Engg.-in-Charge.	4.00	Mtr	2036.00	8144.00
6	Supplying and making brick masonry pedestal with extra super structure including cement plastering etc as required as per direction of Engg.-in-Charge.	1.00	Mtr	3000.00	3000.00
7	Supplying of one number PVC insulated armored and PVC sheathed XLPE property AL. conductor power cable of 1.1 KV grade POLYCAB/HAVELLS/Finolex or equivalent reputed make ISI marked as approved of following size cables as per direction of Engg.-in-Charge. Necessary test report & Warranty certificate to be submitted to the department for genuinity of product & to avail free after sales service within warranty period for acceptance of materials				
a	3.5core x 120 sq mm MDB WITH DG	188.00	Mtr	595.82	112014.16
b	4core x 16 sq mm	44.00	Mtr	145.61	6406.84
c	4 core x 4 sq mm	33.00	Mtr	87.87	2899.71
d	3.5core x 35 sq mm FDB EM.	30.00	Mtr	218.41	6552.30
8	LAYING OF CABLE				
a	Laying of PVC Insulated PVC Seated /XLPE power cable of 1.1 kv grade size not exceeding 25 SQ. MM direct in ground in the trench in one horizontal formation including excavation ,sand cousing protection covering and refilling the trench etc as required as per direction of Engg.-in -charge.	21.00	Mtr	134.00	2814.00
b	Laying of PVC Insulated PVC Seated /XLPE power cable of 1.1 kv grade size exceeding 25 SQ. MM but not exceeding 120 SQ. MM direct in ground in the trench in one horizontal formation including excavation ,sand cousing protection covering and refilling the trench etc as required as per direction of Engg.-in -charge.	100.00	Mtr	150.00	15000.00
c	Laying of PVC Insulated PVC Seated /XLPE power cable of 1.1 kv grade size not exceeding 25 SQ. MM direct in ground in the EXISTING PIPE etc as required as per direction of Engg.-in -charge.	50.00	Mtr	44.00	2200.00
d	Laying of PVC Insulated PVC Seated /XLPE power cable of 1.1 kv grade size exceeding 25 SQ. MM but not exceeding 400 SQ. MM direct in ground in the EXISTING PIPE etc as required as per direction of Engg.-in -charge.	26.00	Mtr	61.00	1586.00
e	Laying of PVC Insulated PVC Seated /XLPE power cable of 1.1 kv grade size not exceeding 25 SQ. MM in open duct etc as required as per direction of Engg.-in -charge.	32.00	Mtr	36.00	1152.00
f	Laying of PVC Insulated PVC Seated /XLPE power cable of 1.1 kv grade size exceeding 25 SQ. MM in open duct 400 SQ. MM direct in ground in the EXISTING PIPE etc as required as per direction of Engg.-in -charge.	24.00	Mtr	48.00	1152.00
g	Laying of PVC Insulated PVC Seated /XLPE power cable of 1.1 kv grade size not exceeding 25 SQ. MM in surface with shaddle and screw etc as required as per direction of Engg.-in -charge.	22.00	Mtr	84.00	1848.00

h	Laying of PVC Insulated PVC Seated /XLPE power cable of 1.1 kv grade size not exceeding 120 SQ. MM From 25 SQ. MM in surface with shackle and screw etc as required as per direction of Engg.-in-charge.	20.00	Mtr	133.00	2660.00
9	Supplying and making end termination with brass compression gland and aluminum lugs for following mentioned size cable. As per direction of Engg.-in-Charge.				
a	4 core x16sq mm	4.00	Nos	202.00	808.00
b	3.5 core x35 sq mm	4.00	Nos	342.00	1368.00
c	3.5 core x120 sq mm	4.00	Nos	464.00	1856.00
10	Providing, fixing and laying of following dia G.I. pipe (medium class) in ground complete with G.I fitting incl. trenching (75 mm depth) and refilling as per direction of Engg.-in-Charge.				
a	50 mm dia	6.00	mtrs	415.00	2490.00
11	Providing fixing and lying of following dia HDPE pipe (medium class) in ground complete with fitting incl. trenching (75 mm depth) and refilling as per direction of Engg.-in-Charge.				
a	200 mm dia	88.00	mtrs	846.00	74448.00
F	PANELS				
	10 KVA UPS PANEL & EMERGENCY LIGHT PANEL				
1	S/I/T & Commissioning of LT indoor floor mounted cubical type electrical main panel (for both light and power circuit) made out by 2mm CRCA steel sheet duly derusted & pented by simens gray powder cote paint is designed as G.A drawing. (FOR BUILDING EMERGENCY.) As per direction of Engg.-in-Charge.	2.00	Set	40739.00	81478.00
	In commer-01- 01 number of 40A 4P MCB (make-Schneider/Siemens, Equivalent reputed make ISI marked as per techno commercial sheet MCB specification) .				
	Busbar-1- 04 numbers of 01 SETS 50Amps Electrolytic copper bus bar duly sleeved by color coated PVC sleeve & supported by suitable size DMC insulator.				
	Outgoing-1- (i) 6 numbers of 40A 2P MCB (make- Legrand or equivalent reputed make ISI marked) for BDB EMERGENCY.(Legrand/Schneider make)				
	Outgoing-2- (i) 1 no's 32A TPN MCB for EM LIGHTING Lighting with anesthesia/blood bank lighting, BDB UPS of each floor(Legrand/Schneider make)				
	Instrument- (i) 03 numbers phase indicating lamp with toggle switch & HRC fuse.				
	(ii) 01sets of MFM with RS485 & CTs.				
	iii) 04 no's 40KA SP VSD with 32A SP MCB.(Legrand/Schneider make)				
	NB- This panel should have proper earth by suitable rated copper flat.				
	MAIN CONTROL PANEL AT GF WITH EMERGENCY DG SYSTEM				
2	S/I/T & Commissioning of LT indoor floor mounted cubical type electrical main panel (for both light and power circuit) made out by 2mm CRCA steel sheet duly derusted & painted by siemens gray powder cote paint is designed as G.A drawing as per direction of Engg.-in-Charge. The main panel must be designed with up dated fire suppression system for fire preventive as per present fire norm.	1.00	Set	184071.00	184071.00

	In commer-1- 01 number of 4p 250A(125-200) Icu=Ics=100%Icw=36kA MCCB,MP with micro processor based LSING release, under voltage, over voltage ,current, earth fault protection, ZSI, inbuilt energy metering of class 1 accuracy, power, & Electrical locking for normal & DG (make-/Legrand/ L&T/ABB/ Siemens/SCHNEIDER, ISI marked as per techno commercial sheet MCCB specification) (WITH AXULARY FOR BMS)(100 KVA TRANSFORMER 01 NO)				
	In commer-2- 01 number of 4p 250A(125-200) Icu=Ics=100%Icw=36kA MCCB,MP with micro processor based LSING release, under voltage, over voltage ,current, earth fault protection, ZSI, inbuilt energy metering of class 1 accuracy, power, & Electrical locking for normal & DG (make-Legrand/L&T/ ABB/Siemens/ SCHNEIDER, ISI marked as per techno commercial sheet MCCB specification) (WITH AXULARY FOR BMS) (WITH AXULARY FOR BMS)(63 KVA DG 01 NO)				
	Interlocking for both main & DG				
	Busbar-1&2 04 numbers of 250Amps Aluminum bus bar with 1A/SQ.MM current carrying capacity. Bus bar duly sleeved by color coated PVC sleeve & supported by suitable size DMC insulator. (for outgoing)				
	Outgoing- 04 numbers of 63A 4P MCB (make- Legrand or equivalent reputed make ISI marked)(water supply management, FDB LIGHT)				
	Outgoing- 04 numbers of 32A 4P MCB (make- Legrand or equivalent reputed make ISI marked)(timer panel & water supply management, BDB BF)				
	Outgoing- 2 numbers of 100A(63-100A) 4P Icu=100% Ics, LSIG MCCB with micro processor based release with adjustable overload (make- Legrand/L&T/Schneider/ABB/Siemens, ISI marked as per techno commercial sheet MCCB specification)(FLOOR Emergency panel,fire)				
	Instrument- (i) 15 numbers phase indicating lamp with toggle switch & HRC fuse.				
	(ii) 04 set of digital type multifunction meter with CT for voltage, current, frequency, PF, THD indication with RS 485 COMPACTIVITY FOR bms data.				
	(iii) 04 no's of 70kA SP VSD WITH 32A SP MCB				
G	UPS SYSTEM				
1	Supply ,installation ,testing & commissioning of 10KVA ON LINE UPS SYSTEM WITH suitable size battery bank, rated of battery & isolation transformer IGBT based inverter system of 3ph in put to 3 ph output,415V,protection for fault by OL,UV,EF,GF,OC of Schneider/GE/ Liebert/ Emersion/Relio make) including supply of rack inverter stand with sufficient backup up to 30MTS with all required accessories to complete the job including all connection. LOAD OF Emergency) as per direction of Engg.-in-Charge.	2.00	Set	390748.00	781496.00
H	CABLE TRAY PERPORATED TYPE FOR DISTRIBUTION OF POWER				
	Description				

B

D

1	HOT DIPP GALVANIZED(GC) AS PER EN-ISO-1461 , CARBON STEEL WIRE MESH CABLE TRAYS with internal dimensions of size 54mm(H) x 200mm(W), of Legrand - Cablofil make or equivalent reputed make & model A category, ISI marked as approved .The Load bearing capacity of the Cable Trays should be minimum of 104.8Kg/meter at the span of 1.5Meter as per UL specifications.(With all accessories, bend, cover, supporter)WITH REQUIRED SIZED JUNCTION BOX ,COVER CONNECTOR as required as per direction of Engg.-in-Charge. Warrantee period of tray must be 5 years & complete test certificate must be submitted.	133.00	mtrs	595.00	79135.00
2	HOT DIPP GALVANIZED(GC) AS PER EN-ISO-1461 , CARBON STEEL WIRE MESH CABLE TRAYS with internal dimensions of size 54mm(H) x 300mm(W), of Legrand - Cablofil make or equivalent reputed make & model A category, ISI marked as approved .The Load bearing capacity of the Cable Trays should be minimum of 104.8Kg/meter at the span of 1.5Meter as per UL specifications.(With all accessories, bend, cover, supporter)WITH REQUIRED SIZED JUNCTION BOX ,COVER CONNECTOR as required as per direction of Engg.-in-Charge. Warrantee period of tray must be 5 years & complete test certificate must be submitted.	34.00	mtrs	690.00	23460.00
3	HOT DIPP GALVANIZED(GC) AS PER EN-ISO-1461 , CARBON STEEL WIRE MESH CABLE TRAYS with internal dimensions of size 54mm(H) x 400mm(W), of Legrand - Cablofil make or equivalent reputed make & model A category, ISI marked as approved .The Load bearing capacity of the Cable Trays should be minimum of 104.8Kg/meter at the span of 1.5Meter as per UL specifications.(With all accessories, bend, cover, supporter)WITH REQUIRED SIZED JUNCTION BOX ,COVER CONNECTOR as required as per direction of Engg.-in-Charge. Warrantee period of tray must be 5 years & complete test certificate must be submitted .	21.00	mtrs	913.00	19173.00
4	HOT DIPP GALVANIZED(GC) AS PER EN-ISO-1461 , FLOOR RACE WAY WITH JUNCTION with internal dimensions of size 34mm(H) x 225mm(W), of Legrand - Cablofil make or equivalent reputed make ISI marked as approved .The Load bearing capacity of the Cable Trays should be minimum of 104.8Kg/meter at the span of 1.5Meter as per UL specifications.(With all accessories, bend, cover, supporter)WITH REQUIRED SIZED JUNCTION BOX ,COVER CONNECTOR as required as per direction of Engg.-in-Charge.	122.00	mtrs	1781.00	217282.00
	(I)LIGHTENING PROTECTION				
	(LIGHTENING CONDUCTOR)				
1	AIR TERMINAL & ACCESSORRIES LIGHTNING ARRESTER+ MAST: Providing and fixing of lightning conductor finial made of 25 mm dia 300 mm long, G.I tube, having single prong at top, with 85 mm dia 3 mm thick G.I base plate including holes etc complete as required with as per direction of Engg.-in-Charge. (RATE REFERING OSR 2018 SOR NO-4.2) .The entire LA system should be Replacement Warranty will be 5 years	12.00	NOS	396.00	4752.00

2	Riveting, sweating and soldering of copper / G.I. tape (with another copper / G.I. tape, base of the finial or any other metallic object) as required as per direction of Engg.-in-Charge. (RATE REFERING OSR 2018 SOR NO-4.4) The entire LA system should be Replacement Warranty will be 5 years.	32.00	mtrs	167.00	5344.00
3	Providing and fixing of G.I. tape 20 mm x 3 mm thick on parapet or surface of wall for lightning conductor complete as required. (For horizontal run) as per direction of Engg.-in-Charge. (RATE REFERING OSR 2018 SOR NO-4.7) The entire LA system should be Replacement Warranty will be 5 years	32.00	mtrs	61.00	1952.00
4	Providing and fixing of G.I. tape 20 mm x 3 mm thick on parapet or surface of wall for lightning conductor complete as required. (For virtical run) as per direction of Engg.-in-Charge. (RATE REFERING OSR 2018 SOR NO-4.8) The entire LA system should be Replacement Warranty will be 5 years	32.00	mtrs	101.00	3232.00
5	Providing and fixing of testing joint, made of 20 mm x 3 mm thick G.I. strip, 125 long with 4 no's of G.I. bolts, check nuts and spring washer etc complete as required as per direction of Engg.-in-Charge. (RATE REFERING OSR 2018 SOR NO-4.12) The entire LA system should be Replacement Warranty will be 5 years	21.00	Each	65.00	1365.00
6	Providing and laying of G.I. tape 32 mm x 6 mm from earth electrode directly in ground as required as per direction of Engg.-in-Charge. .(RATE REFERING OSR 2018 SOR NO-4.14) The entire LA system should be Replacement Warranty will be 5 years	21.00	mtrs	92.00	1932.00
7	Maintenance free Safe Earthing Electrodes with ISI G.I. pipe dia 75mm as Secondary electrode with wall thickness of 2.6 mm and the Primary Earthing Electrode will be 50mm X 6mm X 1no M.S. hot dipped galvanized strip filled with a highly conductive & non-corrosive compound in between the Primary Earthing and the secondary Earthing, the Surface Area in will be 7, 06,500sqmm for 3mtrs length and Cross Sectional Primary conducting area is 300 sq.mm. A Solid G.I. Base plat seals the unit at the bottom. As per direction of Engg.-in-Charge. (MES-GFC ground Filling compound will be provided in 25 kgs Bags.)(MES-GFC ground Filling compound will be provided in 25 kgs Bags.)(2 bags required for each earthing electrode.)(FOR lightening protection & Building Electrification).The entire earthing system should be Replacement Warranty will be 5 years. Make-OBO/Star-x/ABB or equivalent reputed make & model A category.	2.00	Set	11000.00	22000.00
FIRE FIGHTING SYSTEM					
SPRINKLER SYSTEM					
1	Supply, Installation, Testing & Commissioning of Pendent/Upright type Standard Sprinkler with QB of 68 /79 deg. C temperature rating and 1/2" end connection conforming to IS: 15105 with ISI mark for all floors etc. all complete as per direction of Engineer-in-charge.	44.00	Nos	427.00	18788.00
2	Providing, fitting & fixing of following size cast iron double flanged Y type strainer with SS 304 perforated screen conforming to IS 1538 with ISI mark of pressure rating PN-1.60 including fixing the same with supply of required jointing materials like rubber insertion, MS nuts & bolts, paint etc.				

	and testing the joints with required water pressure & all complete as per specification & direction of E.I.C.				
	150mm dia	2.00	Nos	18110.00	36220.00
3	Supply, Installation, Testing & Commissioning of 'C' Class heavy duty MS pipe (as per IS 1239 up to 150 mm NB and IS 3589 for above 150 mm 6.33mm thick) with flanges and fitting such as bends, tees, reducers, rubber insertions and galvanized nuts and bolts of following size on surface along wall / shaft with MS bracket, suspended from ceiling/ beam with suspenders duly painted with two coats of primer and finished with enamel paint of approved colour laid through pipe or in trench after wrapping with Hassan cloth after applying coal tar primer as required as per direction of Engineer-in-charge. Make-TATA/Sail/Jindal/Eq.				
	150mm NB	22.00	mtr	3780.00	83160.00
4	Supply, Installation, Testing & Commissioning of Cast Iron Ball Valve with Teflon seals, Stainless steel Ball & Stem, MS Lever with PVC Coating As Per IS: 9890 ISI Marked.	4.00	Set	674.00	2696.00
5	Providing, fitting and fixing of C.I. single Air relief valve with stop cock conforming to IS:14845/2000 with ISI mark for water works purpose including fixing the same with hydrant riser including testing & commissioning the system etc. all complete as per approved specification & direction of EIC.	1.00	Nos	1431.00	1431.00
6	Providing & fixing of Water Flow Switch switable for pipe 100 mm Diameter with all accessories for all floors etc. all complete as per direction of Engineer-in-charge.	2.00	Nos	5767.00	11534.00
7	Providing & fixing of 25 mm size Gunmetal Pressure Release Valve with isolation valve and all accessories conforming to IS3233:1965 as per direction of Engineer-in-charge.	1.00	Nos	2621.00	2621.00
8	Providing, laying, testing & commissioning of Flexible Sprinkler Hose Corrugated Unbraided type of length 1mtr for Fire Sprinklers, with 1" Inlet Nipple BSPT, 1/2" Outlet Reducer BSPT, 0.7 m Square Supports Bar & Brackets(UL Listed) with all complete accessories as per direction of Engineer-in-charge.	32.00	Nos	2415.00	77280.00
EXTINGUISHER SYSTEM					
1	Supply, Installation, Testing and Commissioning of ISI marked (IS:2878) Fire Extinguisher ,Carbon di-oxide type capacity 4.5kg with all accessories (Ever safe/Fire shield)	6.00	Nos	12124.00	72744.00
2	Supply, Installation, Testing and Commissioning of ISI marked (IS:2878) Fire Extinguisher ,ABC type capacity 6kg with all accessories (Ever safe/Fire shield)	2.00	Nos	5554.00	11108.00
3	Fire buckets (FILLED WITH SAND) round bottom type enamel painted, white inside & Red outside and Letter "FIRE" in black outside and handle with mounting bracket.	4.00	Nos	4229.00	16916.00
AUTOMATIC FIRE ALARMING SYSTEM					
1	Supply, Installation, Testing & commissioning of Addressable Manual Call Point soft addressable type within built fault isolator as required.(Make: Cooper/ Morley/ Edward/ Notifier/ Hochiki/ Siemens/ GST)	4.00	Nos	8923.00	35692.00
2	Supply, Installation, Testing & commissioning of Addressable Loop Powered Hooter cum Strobe (sound output of minimum 90db) cum strobe (strength of light 10cd) complete with inbuilt isolator as required. (Make: Cooper/ Morley/ Edward/ Notifier/ Hochiki/ Siemens/ GST)	4.00	Nos	10855.00	43420.00

3	Supply & Fixing of 2 core 1.5 sq.mm, multi strand, copper conductor, FRLS (Fire Retardant Low Smoke)-PVC insulated GI Screened Armored cable with saddle and required accessories. & Power Cable.	455.00	Mtr.	135.00	61425.00
4	Supply, Installation, Testing & commissioning of Addressable transponder/ Monitor cum Control Modules (1 input + 1 output) for monitoring flow switches/Fire exit doors etc complete as required. (Make: Cooper/ Morley/ Edward/ Notifier/ Hochiki/ Siemens/ GST)	2.00	No	7736.00	15472.00
SIGNAGES					
1	Providing and fixing the signages "In case of fire pull down - with Manual call point symbol". Size 6" x 6"	6.00	Nos	917.00	5502.00
2	Providing and fixing the signages "In case of fire pull down - with Fire Extinguisher". Size 6" x 6"	6.00	Nos	917.00	5502.00
3	Providing and fixing the signages "Main fire alarm panel." Size 4" x 12"	6.00	Nos	917.00	5502.00
4	Providing and fixing the signages "Assembly point - with symbol (A2 Size)" - Size 12" x 12"	6.00	Nos	1250.00	7500.00
5	Providing and fixing the signages "Entry/Exit".Size-4"x12".	4.00	Nos	917.00	3668.00
HEAT DETECTOR					
1	Supply, Installation, Testing & commissioning of Analog Addressable smoke cum heat detector or heat detector sensor with status indicator. (Make: Cooper/ Morley/ Edward/ Notifier/ Hochiki/ Siemens/ GST)	34.00	Nos	6331.00	215254.00
2	Supply, Installation, Testing & commissioning of Response Indicator complete as required.(Make: Cooper/ Morley/ Edward/ Notifier/ Hochiki/ Siemens/ GST)	22.00	Nos	303.00	6666.00
3	Supply & Fixing of 2 core 1.5 sq.mm, multi strand, copper conductor, FRLS (Fire Retardant Low Smoke)-PVC insulated GI Screened Armored cable with saddle and required accessories.& Power Cable.	433.00	Mtr.	135.00	58455.00
AUDIO VISUAL SYSTEM					
Description					
1	Boundary Microphone: Supply, Installation, Testing & Commissioning of boundary Layer Microphone with mute switch and colour changing LED. The same shall have logic for camera control. Make: Sennheiser MEB 114S	33.00	Nos.	24830.00	819390.00
2	Goosneck Microphone: Supply, Installation, Testing & Commissioning of 40CM Long Gooseneck Microphone with Base, Colour Changing Mute Switch and Logic Connector. The same shall have logic for camera control. Make: Sennheiser MEB 114S	2.00	Nos.	34000.00	68000.00
3	Signal Cable: Supply, Installation, Testing and Commissioning of 5 Core Signal Cable to carry audio signal as well as logic. Make: Belden	350.00	Mtrs	120.00	42000.00
4	Processor: Supply, Installation, Testing & Commissioning of Digital Signal Processor with 8 Mic/Line inputs, 8 Software Configurable Flex Channels and 8 Line outputs. Minimum 16 assignable & routable AEC channels. Minimum 8x8 Dante channels and supports up to 128x128 Network audio channels via Dante or AES67. POTS and SIP Soft phone integration for Audio conferencing and configurable 16x16 USB Audio channels. Should support network amplifiers without any additional hardware. Make: QSC Core 110f V2	3.00	Nos.	345000.00	1035000.00
5	Software License: Supply, Installation, Testing & Commissioning of software license for digital signal processor. Make: QSC SLQSE-110-P	1.00	Nos.	40500.00	40500.00

6	Amplifier: Supply, Installation, Testing & Commissioning 4 Chanel Amplifier 60W Per Chanel with energy star rating. Make: QSC SPA 4 60	2.00	Nos.	87000.00	174000.00
7	Box Speakers: Supply, Installation, and Testing & Commissioning of 8 inch 2 Way Ceiling Mount Speaker. Make: QSC AC C8Tnb	10.00	Nos.	8000.00	80000.00
8	Speaker Cables: Vasiform Series Installation Speaker Cable – 1.5 Sqmm (48/0.20mm) x 2 core cable ATC copper conductor PVC insulated , core twisted, outer jacketed with Vasiform Type PVC Sheath. Make: Krystal	250.00	Mtrs	120.00	30000.00
9	Network Switch: Supply, Installation, Testing & Commissioning of 26-port network switch preconfigured for Qsys application. NETGEAR	1.00	No.	50000.00	50000.00
10	Touch Controller: Supply, Installation, Testing & Commissioning of 10" Touch Panel. APPLE IPAD	1.00	No.	55200.00	55200.00
11	HDMI HDBT Extender: HDMI on HDBT Extender up to 60 Mtrs with 4K@60Hz and 4.4.4 Chroma Sampling. Make: Milestone PRO	4.00	Nos.	12000.00	48000.00
12	Matrix Switcher: 4in put and 4Output HDMI Matrix Switcher with 4K@60 Hz. Audio Embedding on each input and De-Embedding on each output. Make: Milestone Pro	1.00	Nos.	152000.00	152000.00
13	Cable cubby: Pneumatic cable cubby with 2 power, 1 HDMI, 2 LAN , 1 USB Charge 1 USB C Charger. Make: Logic	3.00	Nos.	17050.00	51150.00
14	Equipment Rack: 27U Equipment Rack with 4 Fan, Vertical PDU, Equipment Tray, Caster Wheels and Mounting Hardware. Make: blu rack	1.00	No.	30000.00	30000.00
15	HDMI Cable: 10 Mtrs Long HDMI Cable with 4K 60Hz and 4.4.4. Make: Manhattan	5.00	Pcs.	9350.00	46750.00
16	HDMI Cable: 15 Mtrs Long HDMI Cable with 4K 60Hz and 4.4.4. Make: Manhattan	2.00	Pcs.	12430.00	24860.00
17	HDMI Cable: 2 Mtrs Long HDMI Cable with 4K 60Hz and 4.4.4. Make: Manhattan	32.00	Pcs.	275.00	8800.00
18	Display : 10 Ft x 5.5 Ft active LED Video Wall Display Make: LEYARD / ABSEN 1.8 mm Pixel Pitch	2.00	Nos.	850000.00	1700000.00
19	Side Display: 65" Diagonal 4K Professional Display. Make: LG	2.00	Nos.	90000.00	180000.00
20	Camera: Supply, Installation, Testing & Commissioning of 20x Optical Zoom 60° Horizontal Field of View, PTZ Network Camera, PoE, with HDMI and SDI output. Includes PTZ-WMB1 wall mount bracket for look at me and soft VC. Make: people link	1.00	Nos.	330000.00	330000.00
FURNITURE FOR RENOVATION OF CONFERENCE HALL					
1	CONFERENCE TABLE SIZE: 9000L X 2000D X 750MM HT AND Specification: Corian Top having 38mm ply understructure base. Edges are also finished with Corian of approved shade. The peripheral leg supports with 38mm ply clad with Corian. Provision of Cable manager is also there all complete as per direction of Architect.	1.00	No	693749.95	693749.95
2	CONFERENCE TABLE SIZE: 9000L X 750D X 750MM HT AND Specification: Corian Top having 38mm ply understructure base. Edges are also finished with Corian of approved shade. The peripheral leg supports with 38mm ply clad with Corian. Provision of Cable manager is also there all complete as per direction of Architect.	1.00	No	247767.82	247767.82

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3	GABLEND CONFERENCE TABLE SIZE: 9000L X 750D X 750MM HT AND Specification: Table top: Made of 25mm thick prelaminate particle board of approved shade. Under Structure Support: 25mm thick PLT gable ends. Modesty Panel: 18mm thick 450mm ht plt modesty panel is considered.(Make: Featherlite or equivalent)	1.00	No	90342.00	90342.00
4	GABLEND TABLE SIZE : 2100L X 750D X 750MM HT AND Specification: Table top: Made of 25mm thick prelaminate particle board of approved shade. Under Structure Support: 25mm thick PLT gable ends. Modesty Panel: 18mm thick 450mm ht plt modesty panel is considered. (Make: Featherlite or equivalent)	1.00	No	20124.00	20124.00
5	CONFERENCE TABLE SIZE: 2100L X 750D X 750MM HT AND Specification: Corian Top having 38mm ply understructure base. Edges are also finished with Corian of approved shade. The peripheral leg supports with 38mm ply clad with Corian. Provision of Cable manager is also there all complete as per direction of Architect.	1.00	No	57810.38	57810.38
6	GABLEND TABLE SIZE : 3600L X 750D X 750MM HT AND Specification: Table top: Made of 25mm thick prelaminate particle board of approved shade. Under Structure Support: 25mm thick PLT gable ends. Modesty Panel: 18mm thick 450mm ht plt modesty panel is considered. (Make: Featherlite or equivalent)	1.00	No	27910.00	27910.00
7	PLB OPEBANLE SHUTTERS STOAGE SIZE: 2250W X 600D X 750MM HT Specification: The storage top 25mm thick, shutter & sides panel are made of 18mm thick & back panel is made of 09mm thick prelaminate particle board of approved shade. All the edges of storage surface shall be provided with machine pressed imported PVC lipping glued with hotmelt Eva glue free from any VOC.with finger groove handle & suitable lock.All exposed area PVC edge lipping. (Make: Featherlite or equivalent)	2.00	No	22569.00	45138.00
8	<ul style="list-style-type: none"> • Astro Medium Back Mesh Chair • AC 60 Mesh • Single Lock Synchro Mechanism • Adjustable Lumbar Support • One Way Adjustable Arms (Height) • Nylon Base • Fabric Upholstered Cushion Seat (Make: Featherlite or equivalent) 	100.00	No	12980.00	1298000.00
9	<ul style="list-style-type: none"> • Astro Medium Back Mesh Chair • Headrest • AC 60 Mesh • Single Lock Synchro Mechanism • Adjustable Lumbar Support • One Way Adjustable Arms (Height) • Nylon Base • Fabric Upholstered Cushion Seat (Make: Featherlite or equivalent) 	5.00	No	14473.00	72365.00
SUPPLY & INSTALLATION OF CCTV CAMERA SYSTEM					
1	SUPPLY AND INSTALLATION OF 4 CH NVR 4 CH Support 6MP/ 5MP/ 4MP/ 3MP/1080P/960P/720P IP input Adopt standard H.265 and H.264 high profile compression format to	1.00	No	7000.00	7000.00

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	get high quality video at much lower bit rate intuitive and user friendly Graphics User Interface (GUI), Window style etc complete. Make SAMSUNG HANUA/DAHUA				
2	DOME CAMERA 2MP (1920*1080) H.265 coding ^/Max. Resolution 1920*1080 ^/ ICR auto swich, true dy/night, ROI coding 30m IR night view distance. Make SAMSUNG HANUA/DAHUA	4.00	No	4500.00	18000.00
3	SUPPLY AND INSTALLATION OF 8 PORT POE port to 8 port support IEEE802.3af/at (1000Mbps) UP Link port 1(1000 Mbps) etc complete. Make NETGEAR/ CISCO/ GRANDSTREAM.	1.00	No	12000.00	12000.00
4	SUPPLY AND INSTALLATION OF 4 TB HARD DRIVE etc complete. Make - SEAGATE/WD	1.00	No	15000.00	15000.00
5	SUPPLY AND INSTALLATION OF 32" Monitor with all up to date facilities. Make- LG/SAMSUNG	1.00	No	16000.00	16000.00
SUPPLY & INSTALLATION OF NET WORKING SYSTEM					
1	SUPPLY AND INSTALLATION OF 26U RACK WITH ACCESSORIES. Make- NETRACK/BLUE RACK.	1.00	No	35800.00	35800.00
2	SUPPLY AND LAYING CAT-6(A) CABLE Stranded Bare Copper (7 x 32) AWG 2. Insulation: HDPE (CMI-75E) Nominal Wall Thickness: 0.178mm etc complete. Make- MOLEX/DLINK/DISISOL	300.00	Mtr	40.00	12000.00
3	SUPPLY AND INSTALLATION OF 16 PORT FULL GIGA SWITCH 16-PORT Unmanaged Gigabit Switch offers an economical way for SOHO and Small-to-Medium Businesses (SMB) to take advantage Gigabit etc complete. Make NETGEAR/GRANDSTREM.	1.00	No	15000.00	15000.00
4	SUPPLY AND INSTALLATION OF IO BOX SET. Make-DLINK/HONEYWEL/3C3.	7.00	No	500.00	3500.00
5	SUPPLY AND INSTALLATION OF 24 PORTS PATCH PANNEL. Make-DLINK/ HONEYWEL/3C3.	1.00	No	7000.00	7000.00
6	SUPPLY AND INSTALLATION OF 1 MTR CAT-6 PATCH CORD. Make-DLINK/ HONEYWEL/3C4.	32.00	No	240.00	7680.00
7	SUPPLY AND INSTALLATION OF 2 MTR CAT-6 PATCH CORD. Make-DLINK/ HONEYWEL/3C5.	8.00	No	340.00	2720.00
HVAC SYSTEM					0.00
1	SITC of Full Inverter VRF System with Modular type outdoor units (Top discharge), all scroll DC Inverter compressors for Cooling & Heating applications along with different types of indoors compactable with VRF ODUs with R 410 A. All inverter capacity controlling compressors shall be suitable for 3 Phase, 50 Hz. The outdoor should be with corrosion resistant chemical coating along with hydrophilic coating to shield it from Salt, Sand & other elements brought in by the air. The manufacturer must be OEM of its compressor, which is fitted in the VRF outdoor unit. There should be no detracting at 39 Degree Celsius and capable to work up to 53 Degree Celsius. All proposed outdoor unit should have minimum COP of 3.6 at 100% load condition for Cooling in standard AHRI test conditions (Ambient DBT-35 Deg C, Inside DBT 27 Def C/WBT 19 Deg C), (Make :Daikin / LG / Mitsubishi Electric / OG / Hitachi / Equivalent)				
i	20 HP	1.00	Nos.	423000.00	423000.00
2	SITC of The Indoor units suitable for operation on 220V-240V, Single Phase, 50 Hz AC Electric supply and shall have electronic control valves to control refrigerant flow with washable Filters, BLDC motors.				


i	4.0 HP 4-Way Cassette Unit	4.00	Nos.	43000.00	172000.00
ii	3.2 HP 4-Way Cassette Unit	2.00	Nos.	42800.00	85600.00
3	Communication Kit	6.00	Nos.	8900.00	53400.00
4	Cordless Remotes	6.00	Nos.	4700.00	28200.00
5	Cassette Panel	6.00	Nos.	8900.00	53400.00
6	Supply of Y-Branches / ODU Connector	5.00	Nos.	5300.00	26500.00
Part - B					
7	SITC of the Cu. Refrigerant pipes with 19mm / 13mm with nitrile rubber tube insulation of following sizes Make : Nippon / Ravi Tubes / Mandev / Total Line Gas line with 19mm thick insulation				
i	28.6 mm	24.00	Mtr.	1900.00	45600.00
ii	22.2 mm	18.00	Mtr.	1700.00	30600.00
iii	19.05 mm	15.00	Mtr.	600.00	9000.00
iv	15.88 mm	28.00	Mtr.	600.00	16800.00
8	Liquid line with 13kk thick insulation				0.00
i	15.88 mm	23.00	Mtr.	600.00	13800.00
ii	9.52 mm	61.00	Mtr.	415.00	25315.00
9	Control & Transmission Wiring Supply Installation Testing and Commission of Control wiring of 2 core x 1.5 sqmm copper in suitable conducts between indoor and outdoor units. Make : Polycab / Havells / Anchor / RR Cable/ Finolex / Equivalent	125.00	Mtr.	190.00	23750.00
10	Supply Installation Testing and Commission of PVC drain pipe with 6 mm thick nyrile tube insulation. Make : Supreme / Finolex or equivalent				0.00
i	32 mm	45.00	Rmt.	320.00	14400.00
ii	40 mm	15.00	Rmt.	415.00	6225.00
11	Commissioning of VRV Systems including topping R410A gas as per sale requirements	18.00	Kgs.	23,000.00	414000.00
12	Scaffolding, Outdoor unit base & Other miscellaneous our works	1.00	Lot	17,000.00	17000.00
				Total Rs	16697952.39
				Say	Rs 16697952.00


My/Our quoted rate is _____ % (in figure) _____ percent (in words) _____ (mention excess over / lesser than / at par with) the estimated cost put to tender.

No. of Corrections: -

No. of Over writings:-

Signature of the Contractor


A.E.E.(Civil)
OSCB


CGM(G)
O.S.C.B.