

DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI



TENDER DOCUMENT

TITLE OF THE JOB

**MAINTENANCE & REPAIR OF DMC CAMPUS,
DUHS, KARACHI
REF NO: DUHS/W&S-NIT/2021/069**

**NIT # DUHS/W&S/2021/445
DATED: JULY 03, 2021**

**OFFICE OF PROJECT DIRECTOR WORKS & SERVICES
DOW UNIVERSITY OF HEALTH SCIENCES,
BABA-E-URDU ROAD, BESIDES CIVIL HOSPITAL, KARACHI
TEL / FAX # 021-99216065
E-MAIL: rahim.khan@duhs.edu.pk**

SUBJECT: MAINTENANCE & REPAIR OF DMC CAMPUS, DUHS, KARACHI.

To,

THE PROJECT DIRECTOR

Works & Services Department,
Dow University of Health Sciences, Karachi.

1. Having examined the tender documents including Instructions to Bidders, Bidding Data, and Conditions of Contract, Specifications, Drawings and Bill of Quantities for the execution of the above-named work, we/I, the undersigned, offer to execute and complete the work and remedy any defects therein in conformity with the Conditions of Contract, Specifications, Drawings, Bill of Quantities for the sum of Rs. _____
(Rupees _____) or such other sum as may be ascertained in accordance with the said conditions.
2. We/I understand that all the Appendices attached hereto form part of this bid.
3. As security for due performance of the undertakings and obligations of this bid, we/I submit herewith a bid security in the amount of Rupees _____ (Rs. _____) drawn in your favour or made payable to **Dow University of Health Sciences (DUHS)** and valid for a period of _____ days beginning from the date, bid is opened.
4. We/I undertake, if our bid is accepted, to commence the works and to complete the whole of the works comprised in the contract within the time stated in Appendix-A to Bid.
5. We/I agree to abide by this bid for the period of 90 days from the date fixed for opening the same and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
6. Unless and until a formal Agreement is prepared and executed, this bid, together with your written acceptance thereof, shall constitute a binding contract between us.
7. We do hereby declare that the bid is made without any collusion, comparison of figures or arrangement with any other bidder for the works.
8. We understand that you are not bound to accept the lowest or any bid you may receive.
9. We undertake, if our/my bid is accepted, to execute the Performance Security referred to in Clause 10 of Conditions of Contract for the due performance of the Contract.
10. We confirm, if our bid is accepted, that all partners of the joint venture shall be liable jointly and severally for the execution of the Contract and the composition or the constitution of the joint venture shall not be altered without the prior consent of the procuring agency.

In the capacity of _____duly authorized to sign Bids for and on behalf of
Dated this _____day of_____2021

Signature: _____

(Name of Tenderer in Block Capitals)

(Seal)

Address: _____

Witness:

Signature: _____

Name: _____

Address: _____

Occupation: _____

APPENDIX-A TO TENDER

1	Amount of Performing Security	2% of the Contract price. Total amount including performance security and retention money deducted from bills 5% of contract price stated in Letter of Acceptance.
2	Time for Furnishing Programme (Commencement of Work)	Within from the date of receipt of Letter of Acceptance.
5	Time of Commencement	Within 10 days from the date of receipt of Project Director's Notice to Commence, This shall be issued after signing of Contract Agreement.
6	Time of Completion of Works	12 Months days from the date of Notice to Commence.
7	Amount of Liquidity Damages/ Delay Damages / Penalties	0.1% per day of Contract Price for the work remains un-commenced and un-completed after due date up to maximum of 10% of Contract price and after that termination of contract after 07 day's notice.
8	Defect Liability Period/ Period of Maintenance	90 days from the effective date of Taking over / Completion Certificate.
9	Percentage of Retention Money	10% of the amount of the Interim / Running Payment Certificate.
10	Limit of Retention Money	5% of Contract Price stated in Letter of Acceptance.

**Signature of Contractor /Seal of Firm
Authorized representative of Firm**

INSTRUCTIONS TO TENDERS

- i. Project Director Works & Services, Dow University of Health Sciences, calls tenders for the “**MAINTENANCE & REPAIR OF DMC CAMPUS, DUHS, KARACHI**” with the bill of quantities attached here to be submitted by or before 01:30 P.M on **27-07-2021**. Tenders cost will not be reimbursed for any cost of any kind whatsoever incurred in connection with the preparations and submission of their tenders.
- ii. The tender for each work should be in the sealed envelope bearing name of the work / contractor / firm clearly marked and addressed to Project Director, Works & Services, Dow University of Health Sciences, Karachi.
- iii. The tender may be delivered in person or sent by registered mail so as to reach on or before the date and time stated above. Any tender received after the stipulated time will not be considered regardless of the cause of delay.
- iv. All tender are invited to the present for the opening of the tender in **27-07-2021** at 02:00 P.M. The name of each tenderer and his total contract price only will be read aloud and recorded.
- v. Any tender/tenders without earnest money will not be entertained. Earnest money of the awarding firm may be return after successful completion of work. If the supplier fails to commence or complete the awarded work within the stipulated time his/her work order will be cancelled as per rule and earnest money shall also be forfeited.
- vi. Detailed particulars of the work / works can be seen in the Project Director Office on any working day during the office hours.
- vii. Tender shall be made in the form supplied therefore, with all items and blanks properly filled in. all data and figures and the signature of persons signing the tender shall be in ink. The completed BOQ should be without interlineations, alterations or erasures but if these are necessary to correct errors made by the tenderer, person(s) signing the tender shall initial them. Conditional tenders will not accepted.
- viii. All unit prices filled in the schedule of quantities shall be firm. The unit prices against each item of work and estimate amount and all other data called for shall be given.
- ix. All prices quoted shall be deemed to include all costs of performing the works, including labour, material, duties, octori charges, royalties permit etc. and **all (Provincial & Federal applicable taxes including Income Tax, Sindh Sales Tax, GST and other taxes, (if any)** no claim whatsoever shall be accepted in case of escalation any or all prices entered in rate of bid.
- x. The actual sum to be paid to the contractor whose tender is accepted shall be determined by measuring the work actually done or supplying/repairing the actual number of items in accordance with the work order and valuing it all the rate or prices by the contractor in the tender.
- xi. “In-case of discrepancy between the unit price and amount entered for any item in the schedule of quantities, the unit price will be taken as correct and the amount will be adjusted accordingly when the tender is being examined”.
- xii. 10 % security deposit will be deducted from each bill on the paid amount of the contract, which will be returned after maintenance period of 03 months.

- xiii. The tender must be signed in each and every page by a person(s) authorized to do so.
- xiv. The site can be visited on any working day during the office hours.
- xv. “Engineer” means the Project Director Works & Services of the University or any other Engineer appointed by him.
- xvi. The earnest money will be forfeited in case the contractor fails to commence the work within 10 days’ time after issue of work order or left the work incomplete after commencement and during execution.
- xvii. The Competent Authority reserve the right to reject any or all the tenders, increase or decrease the scope of work.
- xviii. That the Contractor shall be responsible to keep in good condition the premises of the University and shall not damage any property belonging to student of the University and incase of any loss damage caused by the contractors or its employee to any property of the compensate and or indemnify the university or the student as the case may be.

PROJECT DIRECTOR
Works & Services Department
Dow University of Health Sciences, Karachi

DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI
DIRECTORATE OF WORKS & SERVICES

TERMS & CONDITIONS

1. The work should commence within 10 days from the date of letter of award
2. Inspection: Engineer In-charge will make Inspection of Work.
3. 0.1% per day LD shall be imposed, but not more than 10% of contract value in case of late delivery / late completion of work.
4. Quantities shown in the quotation are approximate and no claim shall be entertained for quantities of executed being more or less than those entered in the BOQ.
5. All prices will include all costs of performing the works, including labour, material, duties, octori charges, royalties permit & transportation etc., as mentioned in BOQ and all Provincial & Federal applicable taxes including Income Tax, Sindh Sales Tax, GST and other taxes, (if any).
6. No subletting of all or any part of work will be allowed at any cost / reasons.
7. The contractor will see the site / sample before quoting the rates.
8. If the work / supply is not found according to the specifications or given samples, the same will be rejected at risk and cost of the contractor. In case of contractor fails to work / supply the order, the firm will be blacklisted.
9. Payment
 - a. supplied valuing it at the rates/prices quoted in the approved quotations.
 - b. 10% security deposit will be retained from each bill upto a period of (03) three months from the date of supply of order.
 - c. Payment will be made as per actual / verifiable work one.
10. Request letter for issuance of tender documents should be supported with:
 - a. Copy of GST, SST & NTN registration Certificate and PEC Registration in relevant Category with the following codes BC01, CE01, CE09, CE10, EE01, EE02, EE04, EE06, EE07, ME01, ME02 (MANDATORY).
 - b. Copies of all relevant Certificate/Authorization letter must be attached (where required) mentioned with Tender Enquiry.
11. The bidder must have done at least three (03) contracts of similar nature and magnitude and complexity for which these bids have been invited (Please submit copy of PO / Contract Agreement / Notification of Award).

12. The Bidder should not have been barred of any of provincial or federal Govt. Deptt. Agency, organization or autonomous body or private sector organization anywhere in Pakistan. (Submission of undertaking on 100/- legal stamp paper). All the proposed reports should be well known for its quality, performance and reliability.

13. The bidder's must have at least average annual turnover during the last 3 years should not be less than the relevant PEC Category requirements as reflected at Clause 10(a) above.

PROJECT DIRECTOR
Works & Services Department
Dow University of Health Sciences, Karachi

**MAINTENANCE & REPAIR OF DMC CAMPUS, DUHS, KARACHI
REF NO: DUHS/W&S-NIT/2021/069**

ABSTRACT

S. No.	Item of Work	Amount
1	CIVIL WORK	
2	INTERNAL WATER SUPPLY & SANITARY FITTINGS	
3	INTERNAL GAS FITTINGS	
4	INTERNAL ELECTRIFICATION	
5	DATA AND VOICE	
TOTAL AMOUNT RS.		

CONTRACTOR

SR #	DESCRIPTION OF ITEMS	QUANTITY	RATE	UNIT	AMOUNT
<u>PART 'A' CIVIL WORK :-</u>					
1	Dismantling of Existing Block / Stone Masonry and disposal of rubbish materials by mean of Tractor Trolley or Dumper.	1,500		P.Cft	
2	Dismantling of Existing flooring / skirting i/c C.C layer and disposal of rubbish materials by mean of Tractor Trolley.	2,750		P.Cft	
3	Dismantling of C.C. Plain and disposal of rubbish materials by mean of Tractor Trolley or Dumper.				
	a) 1:2:4	2,750		P.Cft	
	b) 1:4:8	2,250		P.Cft	
4	Dismantling cement concrete reinforced separating reinforcement and disposal of rubbish materials by mean of Tractor Trolley or Dumper.	1,000		P.Cft	
5	Removing cement or lime plaster from walls i/c removal rubbish materials from site of work by means of tractor Trolley or dumper.	6,500		P.Sft	
6	Turfing slops of banks or lawns with grass sods including ploughing laying, setting and watering turf got from within a distance of 5 miles and maintenance for 15 days. This rate also i/c cost of filling 3" Thick layer of BHALLU SAND where as required and the cost of manure etc complete in all respects.	3,250		P.Sft	
7	Providing and Fixing upto 1-1/2" inches of thick approved Envicrete tiles / block (Size 16" x 8") Colored in wall at ground floor, over 1/2" or 3/4" inch thick base of cement mortar 1:3 setting of tiles in slurry of grey cement over mortar base including filling the joints and washing the tiles white cement slurry curing and cleaning etc. complete (Envicrete / Megna crete tiles)	400		P.Sft	
8	Excavation in foundation of buildings, bridges and other structures as per required section, including dag belling, dressing filling around structure with excavated earth watering ramming& compacting etc complete in all respects as per specifications provided and instruction given by the Engineer in charge. Lead up to 300 Feet & lift up to 6 feet. (i) IN ALL TYPE OF SOILS EXCEPT HARD ROCK	475		P.Cft	

9	Cement Concrete Plain including placing compacting, finishing and curing complete (including screening and washing of crush bajri) without form work. etc complete in all respects as per specifications provided and instructions given by the Engineer Incharge. Ratio 1:4:8 (CLASS 'E') (Under Foundation Using S.R Cement)	1,250		P.Cft	
10	Cement Concrete Plain including placing compacting, finishing and curing complete (including screening and washing of crush bajri) without form work. etc complete in all respects as per specifications provided and instructions given by the Engineer Incharge. Ratio 1:2:4 (CLASS 'C') (Under Floor Using O.P.C Cement) (Under Floor Using S.R Cement)	175 225		P.Cft P.Cft	
11	Cleaning Surface, Rubbing and Re-grinding & Chemical Polishing of Existing Marble Flooring etc complete in all respects.	2,230		P.Sft	
12	Providing fabricating and fixing light gauge structural steel in walls. Partition Walls, Roof Truss, Roof frames, bracings, columns etc. all framing element with C-Section having profile 89mm x41mm x 0.75mm thick (Manufactured by Framacad or Equivalent) GI Prime Quality Steel G550 with coating of Z-275 g/m2 conforming to ASTM A653 or equivalent hot dipped galvanized including imported approved quality screws for the connection of elements and all other part required for the fixing complete in all respect as per design / drawings and specification and as per instructions of the Project Manager / Project Engineer / Consultant. Measurement of covered area.	3,250		P.Sft	
13	Providing and laying Class 'D' 1:3:6 cement concrete solid block masonry set in 1:6 cement sand i/c minor reinforcement at concrete joints, racking of joints and curing, etc, complete. In Plinth & Floor Area (Minimum crushing strength 1300-lbs/PSI)	500		P.Cft	
14	Providing and laying Class 'D' 1:3:6 cement concrete Solid Block Masonry wall 4" to 8" in thickness and above set in 1:6 cement sand mortar in ground floor superstructure i/c racking of joints and curing, etc, complete.(Minimum crushing strength 1300-lbs/P.S.I) 150 mm Thick 200 mm Thick 100 mm Thick	2,000 3,000 1,500		P.Sft P.Sft P.Sft	

15	<p>Providing and laying plain cement concrete Class "D" (1:3:6) in foundation having minimum works cube crushing strength of 1500 lbs. per sq. inch at 28 days for blinding or under floors where required using approved quality 1" maximum size graded crushed stone or gravel with approved quality sand including all formwork, roding, leveling, compacting and curing etc. complete as per specifications, drawings and to the entire satisfaction of Engineer. Ratio 1:3:6 (CLASS 'D') (Under Foundation Using S.R Cement)</p>	450		P.Cft	
16	<p>Providing & fixing cement paving blocks flooring having size of 200 x 100 x 60 (mm) of City / Quadra / Cobble shape in a specified pattern and design with the combination of natural colour and colored blocks, having strength b/w 4000 lbs./Sft to 6000 lbs./Sft over 2" thick compact bed of crush ash i/c filling the joints with river sand and also i/c proper compaction with compactor machine after laying blocks etc complete in all respect as per specification provided and instructions given by the Engineer Incharge.</p>	2,200		Sft	
17	<p>BITU-POLE Treatment to plastered or exposed Concrete Surface under foundation to be buried in trench as directed by Engineer Incharge</p>	550		Sft	
18	<p>Cement Plaster in Ratio 1:6 (15 mm Thick) i/c floating coat of cement in proper design & profile on walls/beams & columns .This rate also i/c providing expanded metal at the joint of R.C.C. members and block masonry where as required etc complete in all respects as per specifications and drawings and approval of Engineer Incharge (i) 15 mm thick Internal / External</p>	9,260		P.Sft	
19	<p>Cement Plaster in Ratio 1:4 (13 mm Thick) i/c floating coat of cement in proper design and profile on walls, beams & columns etc complete in all respects as per specifications and drawings and approval of Engineer Incharge. (i) 13 mm thick Internal / External</p>	9,260		P.Sft	
20	<p>M / Fixing Teak Wood Chowkat size i/c hold fasts and fixing in block or brick masonry etc complete in all respects as per directives of Engineer Incharge. a) 7-1/2" x 2" b) 9-1/2" x 2" c)11-1/2"x 2-1/4"</p>	525 100 90		P.Rft P.Rft P.Rft	

21	Fabrication of Deformed Steel Bars, reinforcement for cement concrete work i/c cutting, bending, laying in proper position, making joints & fastenings etc complete. This rate includes cost of binding wire, over lapping, extra wastage, laboratory testing of steel and removing rust from bars. (Grade 60, Minimum Yield Strength 60000 Lbs. / P.S.I.	6		P.Ton	
22	Providing and laying R.C.C Class 'C'(1:2:4 having a minimum crushing strength of 3000 PS I at 28 days), using 6mm to 18mm sizes graded crushed aggregate and fine aggregate including approved quality form work and its removal, all operations of vibrating, leveling, consolidating, curing and cube / cylinder lab tests of pouring material at 07 days & 28 days etc. Complete in all respects as per specifications and drawings and approval of Engineer Incharge .This rate does not includes the cost of steel bars and its erection which will be paid separately (General Mould)	350		P.Cft	
23	Providing and laying R.C.C Class 'B'(Ratio 1:1-1/2:3 having a minimum crushing strength of 4000 PSI at 28 days), using 6mm to 18mm sizes graded crushed aggregate and fine aggregate including approved quality form work and its removal, all operations of vibrating, leveling, consolidating, curing and cube / cylinder lab tests of pouring material at 07 days & 28 days etc. Complete in all respects as per specifications and drawings and approval of Engineer Incharge .This rate does not includes the cost of steel bars and its erection which will be paid separately (General Mould)	250		P.Cft	
24	Providing and fixing G.I. sheet chowkats of 18 gauge for doors i/c pouring C.C. 1:2:4 inside chowkat etc: complete in all respect. a) 2" x 9½" b) 2" x 7½" c) 2' x 13½"	275 425 75		P.Rft P.Rft P.Rft	
25	Providing and laying Topping of cement concrete (1:2:4) including surface finishing & dividing into panels. a) 3" thick b) 2" thick	9,250 3,250		P.Sft P.Sft	
26	Providing and fixing in position Doors Shutter 1-1/2" thick Teak wood ply shutters (Partially glazed with frost glass where as required) over first class partal wood skeleton (Solid) styles and rails core of partal wood and Teak ply wood (3 ply) on both sides including hold fasts, hinges, iron tower bolts, handles and cleats with cord etc complete in all respects. a) 1-1/2" thick	425		P.Sft	

27	Providing and fixing C.P Brass Mortice Lock with Round Handle (Imported).	75		Each	
28	Providing and fixing C.P Brass Mortice Lock with Long Handle (Heavy Design Imported).	35		Each	
29	Providing and fixing Door Closer of approved & Design (Imported).	90		Each	
30	Providing and fixing Brass Tower Bolts. a) 6" Long. b) 8" Long c) 12" Long d) 18" Long	80 75 55 35		Each Each Each Each	
31	Providing and fixing Aldrop.brass a) 12" long 1/2" dia b) 12" long 5/8" dia	25 25		Each Each	
32	Providing & fixing C.P Brass Handle. a) 5" long b) 6" long	15 15		Each Each	
33	Providing & fixing Colour Crete to wall surface to provide, durable crust and aesthetics having thickness upto 1/2" with specified colour having water, fire ³ and termite resistance over the base of 1/2 " thick cement plaster Ratio (1:4).	7,225		P.Sft	
34	Providing & Applying water proofing Membrane Korean PE canvas sheet on earth Filling in bed as per specification & instruction of Engineer.	750		P.Sft	
35	Providing and Applying French polishing over wood work with liqueur base spirit polish and filling material etc complete in all respect.	11,000		P.Sft	
36	Providing and Applying French polishing old wood over wood work with liqueur base spirit polish and filling material etc complete in all respect.	7,500		P.Sft	
37	Providing and laying precast roof with girder 4"x9".of approved make & design.	2,250		P.Sft	
38	Preparing surface and Applying water proofing chemical 1st primary coat of 26 AC 10/55 chemical and then heavy rich coat with canvas cloth and in last two coats of same chemical etc complete in all respects as per directives of Engineer Incharge.	7,333		P.Sft	

39	Providing and spraying pesticide solution of approved manufacturer inside building line in 3 - stages i.e. in trenches, on floor base & all wood work etc, using "Agenda" or equivalent of Jaffer Brothers water mixed solution.	5,000		P.Sft	
40	Providing & fixing mild steel louver door & window with angle framing chowkat 1-1/2" x 1-1/2" 6mm thick door framing 1/1/4" x 1/1/4" thick angle with mild steel sheet 16 swg for louver with all respect accessories, painting 3 coats.	600		P.Sft	
41	Providing & fixing iron bar grill gate with angle frame angle Iron 1"x1" & solid square bar 3/8" x 3/8" with 6" c/c all respect accessories with locking arrangement, painting 3 coats of enamel paint etc complete in all respects.	175		P.Sft	
42	Providing and Fixing picture railing with screwing and nails. Etc complete in all respects including French polishing. a) 2" thick Oak wood b) 2 1/2" thick Oak wood c) 2" thick Golden Teak	250 200 650		P.Rft P.Rft P.Rft	
43	Providing & Fixing Imported Fixed Glass 8 m clear with necessary frame channel of Aluminum.	750		P.Sft	
44	Providing & Fixing Imported Fixed Glass 12 mm clear with necessary frame channel of Aluminum	475		P.Sft	
45	Providing and fixing 12 mm thick glass partition with door i/c floor hinge imported machine, pasting frost paper and S.S. 18" long handle ETC complete in all respect.	325		P.Sft	
46	Providing & Fixing Banko imported Hinge Machine.	45		Each	
47	Providing & Fixing Stainless Steel push plate (JB Saeed)	25		Each	
48	Removing old Aluminum Door with motor and aluminum partition etc complete	325		P.Sft	
49	S/F in position Aluminum box channels framing (100 mm x 40 mm) for office chamber partitions i/c Aluminum hinged doors made (of approved make and design) with Aluminum Sheet 3 mm on bottom up to 300 mm height, 5 mm thick tinted frost glass glazed on remaining portion, imported Door Closer over Door and Alpha (Japan) locks including handles stoppers etc complete in all respects as per directives of Engineer Incharge. (Prime / Chawla or Equivalent)	600		P.Sft	

50	S/F in position Aluminum box channels framing (100 mm x 40 mm) for Aluminum Doors made (of approved make and design) with Aluminum Sheet 3 mm on bottom up to 900 mm height, 5 mm thick tinted frost glass glazed on remaining portion (Belgium), imported floor hinge two-way pivot machine and Alpha (Japan) locks including handles stoppers etc complete in all respects as per directives of Engineer in charge. (Prime/ Chawela or Equivalent)	200		P.Sft	
51	S/F in position Aluminums channels framing (100mm x 40 mm) for sliding windows & ventilator with collar made (of approved make and design) with 5 mm thick tinted glass glazing (Belgium) and aluminum fly screen channel including handles stoppers & locking arrangements etc complete in all respects as per directives of Engineer In charge (Prime/ Chawla or Equivalent)	400		P.Sft	
52	Supplying and fixing Steel grill of 1/2" x 1/2" square bar as per approved design (Weight 2.00 kg / Sq. ft. :) i/c Painting 2 coats of oil paint with one coat red oxide paint etc: complete in all respects as per specifications and drawings and approval of Engineer In charge.	375		P.Sft	
53	Applying 3 Coats of Plastic Bound Distemper Paint i/c primary coat of chalk and preparing base surface and filling where as required as per requirement of Architecture Drawings and specifications etc complete in all respects as per directives of Engineer In charge.	15000		P.Sft	
54	Applying 3 Coats of Silk Matt Finishing with primary coat and preparing base surface and filling where as required as per requirement of Architecture Drawings and specifications etc complete in all respects as per directives of Engineer In charge.	38,000		P.Sft	
55	P/Applying 3 Coats of Weather Shield Paint of superior quality i/c preparing base surface and filling etc complete in all respects as per directives of Engineer In charge	11,000		P.Sft	
56	Preparing surface and oil painting Doors and Windows any type including edges (Iron or wooden or partially glazed)	3,150		P.Sft	

57	<p>Providing and fixing Printed Granite / Porcelain Tiles Flooring jointed in white cement and laid over bed of 1"to 2" thick grey cement concrete bed in ratio 1:2:4 i/c washing / filling of joints with white cement etc: complete in all respect (Imported Premium Quality costing Rs 2200 per meter or above) as per sample approved by Engineer etc complete.</p> <p>a Flooring</p> <p>b Wall Dado</p> <p>c 6" Wide Wall Border</p>	7,250 1,500 1,000		P.Sft P.Sft P.Rft	
58	<p>Providing and fixing Printed Glazed Ceramic Tiles Flooring jointed in white cement and laid over bed of 1/2"thick grey cement send mortar ratio 1:3 i/c washing / filling of joints with white cement etc: complete in all respect (Imported Premium Quality costing Rs 1600 per square meter or above) as per sample approved by Engineer etc complete.</p> <p>Wash Rooms Flooring</p>	1,250		P.Sft	
59	<p>Providing and fixing Printed Glazed Ceramic Tile Dado/ Skirting i/c two layers of Printed Borders (2" to 4"Wide) jointed in white cement and laid over bed of 1/2"thick grey cement send mortar ratio 1:3 i/c washing / filling of joints with white cement etc: complete in all respect. (Imported Premium Quality costing Rs 1600 per square meter or above). as per sample approved by Engineer etc complete.</p> <p>Wash Rooms Wall Dado</p>	1,000		P.Sft	
60	<p>Providing and fixing Roof Shade made of Fiber Glass Sheet 3 mm rest over frame structure of tubular pipe frame consisting of various pipes having sizes 38mm x 18mm, 18mm x 18mm and 25mm x 25mm (16guage) fixed with G.I pipe posts of 60 mm dia painted G.I pipes 10 ' high above ground and 2' buried under ground. This rate i/c all type of work such as cutting and fixing Fiber Sheet with tubular pipe frame fixing with nuts, bolts, bitumen washers etc complete in all respects i/c painting one coat of red oxide and two coats of enamel paint over metal iron work as per matching shade etc complete in all respects as per directives of Engineer Incharge</p>	850		P.Sft	
61	<p>Providing and fixing Cement Checquer Tiles Flooring (12"x12"x1" or above) jointed in white cement and laid over bed of 1/2"thick grey cement send mortar ratio 1:3 i/c washing / filling of joints with white cement etc: complete in all respect (Premium Quality costing Rs 600 per square meter or above)</p>	400		P.Sft	

62	P/F Decorative False Ceiling of first quality MDF Lassani boards of various thicknesses (3/4" , 1/2" & 3/8") with wooden logs as per requirement of Architecture Drawings and specifications provided i/c decorative paint or French polish as required and also making excess for decorative false ceiling LED Lights etc complete in all respects as per directives of Engineer In charge.	425		P.Sft	
63	Supplying and fixing False Ceiling of gypsum sheet (2' x 2' or 4'-0"X 2'-0" imported) in panels including making frame work of imported Aluminum "T" Channels	7,150		P.Sft	
64	Providing and Fixing MS corrugated sheet of 20 SWG shade with 1-1/2"x1" MS tube 16 gauge and angle 1-1/2"x1-1/2"x 2/8 thick structure fixing with screw & welding pin for supporting.	1,250		P.Sft	
65	Providing and fixing Stone Coping (12"x 2") with lining of 2" Thick jointed in white cement and laid over bed of 1/2"thick grey cement send mortar ratio 1:3 i/c washing / filling of joints with white cement etc: complete in all respect.	175		P.Rft	
66	ACP Cladding Sheet, BRANDED, "I-Bond" , Premium American Brand, FR "PVDF Coated" , Overall "4 mm" Thickness with "0.5 mm" Aluminum Skin on Front Side & 0.3 mm on Back Side & Polyethylene b/w Skins. KYNAR 500. PSB Test Passed. ISO & Aus Certified. 20 Years Shining Warranty. With Scaffolding & Electricity. Complete in all Respect with Fixing & Hardware Accessories.	1,550		P.Sft	
67	Providing and fixing Printed Glazed Ceramic Hala Pattern Tiles (Size 8" x 8") on wall facing or in dado jointed in white cement and laid over bed of 1/2"thick grey cement send mortar ratio 1:3 i/c washing / filling of joints with white cement etc: complete in all respect. (Premium Quality costing Rs 1000 per square meter or above)	100		P.Sft	
68	Providing & fixing wall cladding with M D F 1/2" thick board on both sides with back support with 3" x 1-1/2" Portal wooden frame with solignum treated, including 1/8 " thick oak ply cladding with making groove thick as per design drawing, approved polish finish three side (polish make by I.C.I approved or equivalent) etc complete in all respects as per directives of Engineer in charge.	1,550		P.Sft	

69	P/F wooden cabinet 16" deep (American / Italian Style) made up of frame of partial wood 2"x2" & shutter of chip board 3/4" with Formica on outer side i/c making drawn shelves etc: as per required colors catcher handle etc: as per required the cost also i/c T&P carriage from shop to site of work and fixing on wall with wooden Patti / breaker as directed by the Engineer Incharge.	400		P.Sft	
70	P/Making & Supply office table 5'-0"x2'-6"x2'-6" making table 3/4 imported MDF lamination sheet both side and top thickness 1-1/2" and all other edge 2/8 thick solid oak wood gola, table top gola 3/8" thick 2" wide complete in all respect etc as per approved by engineer	25		Each	
70.1	P/ Making and supply side rack 3'-0" x 1'-4" x 2'-6" making table 3/4 imported MDF lamination sheet both side and 03 nos. draws, keyboard tray all edge 2/8 thick solid oak wooden gola etc., complete in all as per approved by engineer.	25		Each	
71	P/S office chair Charister made or Equivalent as per design approved by engineer. Low back High back	50 40		Each Each	
72	Provide & install in line and level wooden floor (heavy commercial) / of approved make i/c rubber underlay, wood edge detail as per drawing, etc complete in all respect or as approved by the Consultants or Engineer. Basic price shall be Rs. 220.00 per Sft.	1,100		P.Sft	
73	Providing and installation floor of machine made nylon carpet tile of approved make with color and design. Complete in all respects as approved by the Consultants or Engineer. Basic price shall be Rs. 240.00 per Sft	1,000		P.Sft	
74	Provide and install in position 2mm to 3mm thick imported vinyl flooring in tile form of 12"x12" of approved quality and make, with good quality adhesive, complete in all respects or as approved by the Consultants / Engineer.	250		P.Sft	
75	P/S conference table for 18 persons table top making MDF 3/4 thick and pasting veneer, table top making in 2" thick and out 1/2" thick oak wood gola and all edge also 1/2" thick lipping lacquer polish and imported hardware complete in all respect.	1		Each	
76	Providing & applying handmade heavy textured paint of ICI or Burger or approved equivalent of approved shade from ICI or burger color bank on external surface, i.e. walls, columns, beams etc. including preparation of base etc. complete at any height as per approved by Engineer.	600		P.Sft	

77	Provide and install in position Roll-up window blinds of approved colour, and specifications, of Imported chain operated Roller blind with approved sample including wastage, lifting, etc, complete as respect and as approved by Engineer.	1,050		P.Sft	
78	Providing, making and supplying Stainless Steel planter 16" dia and 20" high complete in all respect	05		each	
PART 'A' CIVILWORK TOTAL					

PART 'B' INTERNAL WATER SUPPLY & SANITARY FITTINGS

1	<p>Providing and fixing European water closet export quality Master or equivalent brand as approved sample with low down flashing cistern, connecting pipe and all accessories, filling, waste, traps, CP flexible pipe, T-stop cock as per approved sample of Master or equivalent brand with check nuts all joints plugging and screwing as necessary to the structure complete in all respect.</p>	10		Each	
2	<p>Providing and fixing Asian W.C Orisa type white or color glazed with low level flush tank/cistern connecting pipe and all accessories, filling, waste, traps, CP flexible pipe, T-stop cock as per approved sample of Master or equivalent brand with check nuts all joints plugging and screwing as necessary to the structure with pedestal etc. i/c making requisite number of hole in wall plinth and floor and making good in cement concrete 1:2:4. Complete in all respect and to the entire.</p>	10		Each	
3	<p>Providing & fixing wash basin size 18" x 24" with wash basin mixture and pedestal with all accessories such as, basin mixer, tee stop cock with check nuts, CP flexible pipe, waste pipe, waste coupling, bracket set, etc. Complete including bottle trap, silicon sealant, all joint to service and drain, plugging and screwing as necessary to the structure, filling sleeve opening with non-shrink grout complete in all respect (Porta / Master or Equivalent) (Classic Model)</p>	18		Each	
4	<p>Providing and fixing Counter Top Wash Basin with all accessories such as, basin mixer, tee stop cock with check nuts, CP flexible pipe, waste pipe, waste coupling, bracket set, etc. Complete including bottle trap, silicon sealant, all joint to service and drain, plugging and screwing as necessary to the structure, filling sleeve opening with non-shrink grout, and coated with epoxy. Complete in all respect (Porta / Master or Equivalent) (Classic Model)</p>	9		Each	
5	<p>Providing & fixing Urinal including flushing cistern, tee stop cock etc complete in all respects (Porta / Marachi or Equivalent) (Classic Model)</p>	8		Each	
6	<p>Supplying/Fixing White glazed Laboratory sink bowl of approved made and design (Standard Size) as per standard requirement i/c bolt kit brackets, c.p waste and waste pipe etc complete in all respects</p>	9		Each	

7	Providing and fixing C.P Brass Double bib cock with Muslim Shower 1/2" dia (Master/ Sonex or equivalent)	5		Each	
8	Providing and fixing C.P Brass Fancy bib cock with crystal head 1/2" dia (Master / Sonex or equivalent).	24		Each	
9	Providing and fixing C.P Brass Concealed Tee stop cock with crystal head 1/2" dia (Master / Sonex or equivalent)	12		Each	
10	Providing and fixing C.P Brass Concealed stop cock with crystal head 1/2" dia (Master / Sonex or equivalent)	6		Each	
11	Supplying/Fixing C.P Brass Surgical Elbow action Wash Basin Mixture of superior quality with C.P Head and long arm 1/2" dia etc complete in all respects	3		Each	
12	Providing and fixing U.P.V.C. Floor Trap 6"x2" or 6"x3" dia i/c Steel floor Jali Grade-I (AGM or equivalent) including cutting, fitting with collars, clamps and rubber solvent. This rate also includes making holes in walls, plinth, floor and roof for fixing pipe and making good in c.c. 1:2:4. Testing pressure head 200 feet.	125		Rft	
	Only Steel Jali 6" x 6" with waste pipe hole	18		Each	
13	Providing and fixing U.P.V.C. Pipe Grade-I (AGM or equivalent) including all fittings such bends tees etc with cutting pipe up to required length, fitting with collars, clamps and rubber solvent. This rate also includes making holes in walls, plinth, floor and roof for fixing pipe and making good in c.c. 1:2:4. Testing pressure head 200 feet.				
	4" Dia for Single Attached Lavatory	100		P.Rft	
	3" Dia for Single Attached Lavatory	100		P.Rft	
15	Providing & fixing of PPR/pvc/cpvc AGM euilant PN-20 cold / Hot water pipes with all required molded fittings PN-20, jointing pipe with heat method, testing. This rate also i/c cutting holes in wall plinth and roof for concealed pipe fittings and making good in c.c 1:2:4 etc complete in all respects as per specifications and instructions provided by the Engineer In charge.				
(i)	40 mm	1,100		P.Rft	
(ii)	30 mm	570		P.Rft	
(iii)	25 mm	570		P.Rft	
(iv)	18 mm	150		P.Rft	
(v)	13 mm	205		P.Rft	

21	Providing & fixing of PPR PN-20 Gate Valve with brass threads, jointing with already laid pipe by heat method, testing, etc complete in all respects as per specifications and instructions provided by the Engineer In charge.				
(i)	40 mm	1		Each	
(ii)	30 mm	2		Each	
(iii)	25 mm	2		Each	
(iv)	20 mm	3		Each	
(v)	13 mm	2		Each	
22	Providing G.I pipes of approved standard company with fittings such as tee, bend, socket, elbow union & clamps where as required etc i/c threading, fixing cutting & fitting complete with & i/c the cost of breaking through walls & roof for making concealed, making good etc, painting two coats after cleaning the pipe etc, with white zink paint with pigment to match the colour of the building and testing with water to a pressure head of 200 feet and handling. (I.I.L.M or Equivalent).				
(i)	1/2" Dia pipe	415		P.Rft	
(ii)	3/4" Dia pipe	1200		P.Rft	
(iii)	1" Dia pipe	325		P.Rft	
23	Providing and fixing C.P. Brass handle valve. (Made in Italy).				
(i)	1/2" Dia pipe	23		Each	
(ii)	3/4" Dia pipe	16		Each	
(iii)	1" Dia pipe	05		Each	
23	Providing G.I pipes of approved standard company with fittings such as tee, bend, socket, elbow. union & clamps where as required etc i/c threading, fixing cutting & fitting complete with & i/c the cost of earth excavation up to required depth and laying pipe in to the trench and refilling the trench i/c painting two coats of bitumen with hessian cloth after cleaning the pipe etc complete and testing with water to a pressure head of 200 feet and handling. (External I.I.L M or Equivalent).				
(i)	1-1/4" Dia pipe	40		P.Rft	
(ii)	1-1/2" Dia pipe	40		P.Rft	
(iii)	2" Dia pipe	50		P.Rft	
25	Providing chambers 9" x 6" (inside dimensions) x 24" deep for stop cocks and valves etc. with 6" thick C.C 1:3:6 cast in situ walls, 6" thick C.C 1:4:8 in foundation 1/2" thick cement plaster 1:3 to all inside wall surface and to top 1" thick C.C 1:2:4 flooring complete with hinged cast iron cover and frame 9"x6" (inside) clear opening (wt 1/2" Qr) etc. fixed in cement concrete 1:2:4 including curing excavation back filling & disposal of earth etc. complete.	3		Each	

26	Supplying & fixing Bath room accessories set (9 Pieces) I/c towel rod, brush holder, Coat Holder & soap tray shelf of approved design i/c cost of screws, nuts etc Complete. (Master Brand or Equivalent).	3		Each	
27	Providing & fixing chrome plated brass towel rail complete with brackets fixing on wooden cleats with 1" long c.p brass screws. (Superior Quality).				
(i)	Towel Rail 36" long	3		Each	
(ii)	Towel Rail 30" long	3		Each	
28	Supplying & fixing soap tray of made plastic of Superior quality and design with fine finishing with c.p screws etc. complete.	6		Each	
29	Supplying & fixing C.P Brass Wash Basin Swan Type Piller Cock with crystal head 1/2" dia (Master / Sonex or equivalent).	6		Each	
30	Supplying & fixing Electronic Hand Dryer of approved Make & Design (Imported).	3		Each	
31	Providing & fixing Bavelled edge mirror of Belgium glass (Above 3.00 Sft) complete with 3" thick pre polished wooden border, 1/8" thick hard board and C.P. screws fixed to wooden pleat. (Superior Quality)	10		P.Sft	
32	Providing and laying of U-PVC Pipe of class 'B' suitable for external drainage work buried in ground under roads crossing as per specification with excavating trench for laying of pipe, bricks, warning tape, and back filling with new and fresh sand (4" below pipe and sides with leveling stacks), compaction and plugging of pipe ends etc complete in all respect as shown on drawing provided and as per directives of Engineer In charge.				
(i)	12" Dia pipe	75		P.Rft	
(ii)	8" Dia pipe	60		P.Rft	
(iii)	6" Dia pipe	140		P.Rft	
(iv)	4" Dia pipe	190		P.Rft	
33	Supplying & fixing fiber glass tank of approved quality and design and wall thickness as specified i/c cost of notes, bolts and fixing in platform of cement concrete 1: 3: 6 and making connections for in -let out-let & over flow pipes etc. complete.				
(a)	250 Gallons Fiber Tank	1		Each	
(b)	400 Gallons Fiber Tank	1		Each	
(c)	500 Gallons Fiber Tank	2		Each	

34	Providing and fixing Mono Block water pumping set size 1"x1-1/4" (Golden or Equivalent) with 1 H.P Motor of 2800 RPM having single phase 220 Volts connection including base plate and also making C.C. 1:3:6 platforms of required size and fixing with nuts and bolts complete in all respect. This rate also i/c 2-3/.036 P.V.C insulated power wiring, 10 Amp Main Switch for motor etc complete in all respects.	1		Each	
35	Providing and fixing Mono Block water pumping set size 2"x1-1/2" (Golden or Equivalent) with 2 H.P Motor of 2850 RPM having single phase 220 Volts connection including base plate and also making C.C. 1:3:6 platforms of required size and fixing with nuts and bolts complete in all respect. This rate also i/c 2-3/.036 P.V.C insulated power wiring, 10 Amp Main Switch for motor etc complete in all respects.	1		Each	
36	Providing and fixing Mono Block water pumping set size 2"x 2-1/2" (Golden or Equivalent) with 5 H.P Motor of 2850 RPM having Three phase 440 Volts connection including base plate and also making C.C. 1:3:6 platform of required size and fixing with nuts and bolts complete in all respect. This rate also i/c 2-3/.036 P.V.C insulated power wiring, 10 Amp Main Switch for motor etc complete in all respects.	1		Each	
37	Providing and fixing water pumping set with Siemen motor and Javed pump 10 H.P. 2850 RPM three phase 440 Volts with pump size 8"x 6" suction and delivery 200 ft. head including base plate and also making C.C. 1:3:6 platforms of required size and fixing with nuts and bolts complete in all respect. This rate also i/c 3-7/.064 P.V.C insulated power wiring, automatic starter for motor etc complete in all respects.	1		Each	
38	Providing and fixing UPVC Pipe Schedule 80 a) 1/2" dia b) 3/4" dia c) 1" dia d) 1-1/4" dia e) 1-1/2" f) 2" dia	100 175 110 70 70 80		Rft Rft Rft Rft Rft Rft	
PART 'B' INTERNAL WATER SUPPLY & SANITARY FITTINGS TOTAL					

Part 'C' INTERNAL GAS FITTINGS

1	Providing and fixing Brass Gas Cock 1/4" dia imported	8		Each	
2	Providing & fixing of Gas Burner (Three Ways Table Top) of approved make and design with necessary fittings by approved method, testing etc complete in all respects as per specifications and instructions provided by the Engineer Incharge. (Imported heavy duty)	3		Each	
3	Providing & fixing of Lab Gas Burner of approved make and Design with necessary fittings by approved method, testing etc complete in all respects as per specifications and instructions provided by the Engineer Incharge	8		Each	
4	Providing & fixing of Gas Geyser of approved and Design (35 Liters) with imported pilot and necessary fittings by approved method, testing etc complete in all respects as per specifications and instructions provided by the Engineer Incharge	4		Each	
5	Providing & fixing of PE-80 (Polyethylene-Flex) sui gas pipes with all required Moulded fittings of PE-80 , jointing pipe with approved method, testing, excavating trench in existing external soil, laying pipe, refilling the trench compaction etc complete in all respects as per specifications and instructions provided by the Engineer In charge.				
(i)	20 mm	75		P.Rft	
(ii)	13 mm	120		P.Rft	
6	Providing & fixing of PE-80 (Polyethylene-Flex) Gate Valve with brass threads, jointing with already laid pipe by approved method, testing etc complete in all respects as per specifications and instructions provided by the Engineer in charge.				
(i)	20 mm	1		Each	
(ii)	13 mm	1		Each	

7	Removing & Re-fixing of Existing Geyser i/c replacement of damaged copper rods and other fittings where as required.	5		Each	
8	Supply/Fixing Complete Pilot Kit i/c Thermo Stat (Imported)	5		Each	
9	Supply/Fixing Complete C.P Brass Safety Valve of 1" Dia (Imported)	5		Each	
PART 'C' INTERNAL GAS TOTAL					
<u>PART 'D' INTERNAL ELECTRIFICATION WORK</u>					
1	Wiring for light, fan or plug point with 1.5 sq.mm single core, PVC insulated wire copper conductor wire in PVC Patti or cap casing 0n wall or roof etc, including 1 sq.mm single core PVC insulated wire as ECC as required.				
(i)	(From D. B to Switch Board)	100		P.Point	
(ii)	(From Switch Board to Point)	100		P.Point	
(iii)	(From Point To Point)	55		P.Point	
1	Wiring for light, fan or plug point with 2.5 sq.mm single core, PVC insulated wire copper conductor wire in PVC Patti or cap casing 0n wall or roof etc, including 1.5 sq.mm single core PVC insulated wire as ECC as required.				
(i)	(From D. B to Switch Board)	100		P.Point	
(ii)	(From Switch Board to Point)	100		P.Point	
(iii)	(From Point To Point)	55		P.Point	
2	Wiring for call bell point with 1.5 sq.mm single core, PVC insulated wire copper conductor wire in PVC Channel Patti or cap casing 0n wall or roof etc, including 1 sq.mm single core PVC insulated wire as ECC as required	3		P. Point.	
3	Wiring for two-way point with 2.5 sq.mm single core, PVC insulated wire copper conductor wire in PVC Channel Patti or cap casing on wall or roof etc, including 1.5 sq.mm single core PVC insulated wire as ECC as required.	35		P. Point.	

4	Wiring for plug point with 1.5 sq.mm single core, PVC insulated wire copper conductor wire in PVC Channel Patti or cap casing over wall, column, roof etc, including 1 sq.mm single core PVC insulated wire as ECC as required. (Nearest light plug).	15		P. Point.	
5	Circuit Wiring for distributing circuits with 2-1/1.38(3/.036) PVC insulated wire in PVC Channel Patti or cap casing on wall or roof (Maximum length of circuit from D.B To Switch Board should be 200 Rft or more).	28		Each	
6	Circuit Wiring for power point with 2-7/0(7/.044) PVC insulated wire with 1-1/36 as ECC in PVC Channel Patti or cap casing on wall or roof. (Maximum length of power wiring from D.B to Point should be 160 Rft).	15		Each	
7	Providing & fixing 10 Amps polycarbonate flame retardant one way switch with fancy gang plate fixed on die fabricated powder coated metal board recessed in wall or column including connection as required (E31/2/3A Clipsal Make)				
(a)	One gang Switch Plate	11		Each	
(b)	Two gang Switch Plate	21		Each	
(c)	Four gang Switch Plate	25		Each	
(d)	Six gang Switch Plate	28		Each	
(e)	Eight gang Switch Plate	45		Each	
8	Providing & fixing 10Amps polycarbonate flame retardant bell push with fancy gang plate fixed on die fabricated powder coated metal board recessed in wall or column including connection as required (E31/MBPR Clipsal Make).	3		Each	
9	Providing & fixing 10Amps polycarbonate flame retardant two way switch with fancy gang plate fixed on die fabricated powder coated metal board recessed in wall or column including connection as required. (E31/2/3A Clipsal Make).	3		Each	
10	Providing & fixing 10Amps polycarbonate flame retardant 2-pin switch socket unit (Universal) with fancy gang plate fixed on die	25		Each	

	fabricated powder coated metal board recessed in wall or column including connection as required. (E-15U Clipsal Make)			
11	Providing & fixing 13Amps polycarbonate flame retardant 3-pin switch socket unit (Universal) with fancy gang plate fixed on die fabricated powder coated metal board recessed in wall or column including connection as required (Clipsal Make) with back & boxing.	65		Each
12	Providing & fixing 15Amps polycarbonate flame retardant 3-pin switch socket unit (Universal) with fancy gang plate fixed on die fabricated powder coated metal board recessed in wall or column including connection as required (Clipsal Make) with back & boxing.	65		Each
13	Providing & fixing A.C/D.C Door Bell (superior quality imported) on die fabricated powder coated metal board recessed in wall or column including connection as required.	3		Each
15	Making hole in the wall for metallic exhaust fan and fixing of hold fast, dully plaster and making good the damage surface as required.			
(i)	8" Dia Sweep	5		Each
(ii)	10" or 12" Dia Sweep	5		Each
(iii)	18" Dia Sweep	5		Each
(iv)	24" Dia Sweep	5		Each
16	Providing and fixing 6 Amps plastic ceiling rose on PVC round block /round cover fitted on surface including connection as required.	24		Each
17	Providing and installing 25 CM (12") sweep plastic body Exhaust fan complete with blades, motors, etc fixed in existing hole including connection with 14/.0076" flexible wire complete as required (without regulator) Millat/Pak/Asia/Younus/Climax/Royal.	1		Each

18	Providing and installing 60CM (24") Wall Bracket Fancy Fan including connection with 14.0076" flexible wire complete as required (Millat / Pak / Asia / Younus / Climax / Royal).	5		Each	
19	Providing and installing 140 CM (56") sweep ceiling fan with blades, canopy, standard length of down rod including connection with 14.0076" flexible wire complete as required (without regulator) Millat/Pak/Asia/Younus/Climax/Royal.	19		Each	
20	Providing & fixing 15 Amps poly carbonate flame retardant 400 watts fan dimmer with plate fixed on die fabricated powder coated metal board recessed in wall or column including connection as required (E32V400F Clipsal Make)	24		Each	
21	Providing & Laying of following sizes of 3-1/2 core PVC insulated & PVC sheathed 600/1000-volt grade with standard copper conductor unmoored L.T cable in existing all kind of conduit or cable duct as per Approved specification as required.	113		P.Rft	
22	Providing and fixing Earth set with 2' x 2' x 1/4" copper plate buried in the ground at a depth of 12 feet or less if water comes out from the ground level (with salt and charcoal, or Earth chemical powder) etc. Making the pit 12 feet deep by excavation of all type of soil (except soft or hard rock) i/c fixing of 8 SWG copper wire in 1/2" G.I conduit complete in all respects as required.	1		Job	
23	Providing & Fixing basic batten, surface type, fitting complete with TLD 1x36W white day light lamp starter, electronic ballast as Philips Cat. (TMS015/136 L.E.D)	5		Each	
24	Providing & Fixing basic batten, surface type, fitting complete with TLD 2x36W white day light lamp starter, electronic ballast as Philips Cat. (TMS015/136 L.E.D)	7		Each	

25	P/Fixing 2'-0" x 2'-0" Fancy False Ceiling Circo Fan(imported) of approved make and design etc complete in all respects as per directives of Engineer Incharge.	6		Each
26	Providing & Fixing basic batten, surface type, fitting complete with TLD 4x36W (2'-0" LONG), ALUMINIUM CASING (L.E.D), white day light lamp starter, electronic ballast as Philips Cat. (TMS015/136)	6		Each
27	Providing and fixing L.E.D Energy Saver 12 Watts Phillips i/c wall type or ceiling fancy bracket	6		Each
28	Providing and fixing L.E.D Energy Saver 20 Watts Phillips i/c wall type or ceiling fancy bracket	6		Each
31.1	P/Fixing LED Fancy Light with 42 watts 2'x2' fancy of approved make and design etc complete in all respects as per directives of Engineer Incharge.	25		Each
31	Supply & Installation of following Main / Distribution Panel Boards of approved make and design concealed in wall/surface mounted or floor standing. 1.5/2/3 mm sheet steel fabricated powder coated , suitable for 500 volts, 3 phase ,4 wires,50 Hz, incorporate following components & configuration, complete with all mounting & connecting accessories as per Electrical Drawings attached etc complete in all respect as per specification provided and instructions given by the Engineer Incharge.			
i	SMDB-MB	1		Each
ii	EDB-EME	1		Each
iii	EDB-MB-1	1		Each
32	Supply, Laying, termination and commissioning of following copper conductor cable in already laid PVC conduit / cable tray / trench as required, as per drawings, specification and instructions given by Engineer Incharge (Cu /pvc/ pvc			

	cable, 600/1000v, Pak /Pioneer/AEG Cables).			
a	4 Core - CU/PVC/ PVC Cable (600/1000V)			
i	4 Core - 6 Sq.mm	325		P.Rft
ii	4 Core - 10 Sq.mm	225		P.Rft
iii	4 Core - 16 Sq.mm	250		P.Rft
iv	4 Core - 25 Sq.mm	150		P.Rft
v	4 Core - 35 Sq.mm	325		P.Rft
vi	4 Core - 70 Sq.mm	75		P.Rft
vii	4 Core - 95 Sq.mm	75		P.Rft
c	1 Core - PVC Cable as ECC (600/1000V)			
i	1 core -10 Sq.mm	500		P. Mtr
33	Providing and fixing L.E.D Energy Saver of approved make Design.			
i.	12 Watts	20		Each
ii.	24 Watts	55		Each
iii.	45 Watts	10		Each
iv.	85 Watts	12		Each
v.	400 Watts	5		Each
34	Providing & Fixing G.I Fan rod 3/4" Dia & 4' long duly painted with enamel paint of matching shade	40		Each
35	P/F Circuit breaker 6 Amp to 32 Amp. Single pole i/c. fixing on prepared board and necessary connection.	15		Each
36	P/F Circuit breaker 32 Amp. Double Pole i/c fixings on prepared board and necessary connection.	6		Each
37	P/F Circuit breaker 32 Amp T.Pole i/c. fixing on prepared board and necessary connection.	12		Each
38	P/F Safety Breaker 20 Amp i/c necessary fixings on prepared board and necessary connection.	12		Each
39	Providing and Fixing Stabilizer of approved make & design. Universal A-70 (7000 Watts)	4		Each

40	Providing and prepare Earth Pit with 3-meter-long, 20 mm dia copper rod type electrode for earthing system at the end of every circuit directly driven to ground to obtain earth resistance not more than 3 ohm including 2 x 16 sq. mm single core PVC insulated wire or 2 x 16sq mm bare copper conductor in 50 mm dia G.I pipe, from earth rod to lighting pole. Inspection pit 380 x 380 x 460mm deep (min) with heavy duty C.I cover, appropriate size of Upvc conduit for leads, complete as per detail drawing & instruction of consultant. providing as built drawings, test reports documents to Employer / Consultant representative. Complete in all respects.	1		Each	
41	Providing and Installation of 200 mm x 100 mm wide Fiber cable tray including cover.	100		P.Rft	
42	Supply, Installation, Testing & Commissioning of following Air Conditioning Split Unit Complete (Invertor Type) in all respect ready to operate complete in all respect. The work should be completed with control wiring with limited copper conducting as required. (Mitsubishi / Gree or equivalent).				
a)	1.0 Ton Wall Mounted Split Type.	05		Each	
b)	1.5 Ton Wall Mounted Split Type.	05		Each	
c)	2.0 Ton Wall Mounted Split Type.	01		Each	
d)	2.5 TR wall mounted type A/c	01		Each	
43	Supply / Installation and Commissioning of Refrigerant copper piping (Liquid + Gas-1/2 + 1/4 +5/8+3/8) make Muller USA with expanded rubber foam Insulation (Make Aeroflex) Gas Charging if required. Control wiring in PVC conduit between internal and external units etc complete in all respects.	225		P.Rft	
44	Providing, laying, testing and commissioning of following size telephone & Data Cable in already laid PVC pressure pipe conduit or PVC channel or cable tray/trench as shown on drawing and as per instruction of consultant complete in all respect. CAT -6 (Data Cable and Telephone)	675		P.Rft	

45	Providing/Supplying & Fixing net solo pot switch (Sisco) 3 M 24 patches penal (loaded) with 9-U network rack, patch code 1 & 2 meter long, 3 m Cad I.O complete.	1		Each	
46	Providing & Fixing PVC Insulated RJ-6 copper coaxial wires for TV cable i/c hooks and clips where as required.	60		P.Rft	
PART 'D' INTERNAL ELECTRIFICATION WORK					
<u>PART 'E' DATA AND VOICE</u>					
7.1	Supply & installation of following 0.6mm dia. shielded telephone/Data cables in 25 mm dia PVC conduit.				
a)	Cat – 6	2250		Mtr	
b)	Telephone cable 50 pair.	70		Mtr	
7.2	Supply & installation of following boards as per drawings fabricated from 16SWG sheet steel powder coated box with hinged covered door.				
a)	Telephone Junction Box with. (8 x 25 pair punch block) tag block.	1		No.	
7.3	Supply & installation of following telephone outlets (i/o + Face Plate) with back box.(Hussain make)				
a)	RJ-45 for telephone system.	15		No.	
b)	RJ-45 for Data system.	15		No.	
c)	RJ-45 for Data system. (Duplex)	8		No.	
7.4	Supply and installation of Cat-6 giga speed cable AT & T / Clipsal make for data system in 25 mm dia PVC conduit.	175		Mtr	
7.5	Card Access Control System	1		No.	
7.6	Wiring for Card Access	1		No.	
7.7	UPS 10 KW	1		No.	
7.8	Following CAT-6, Patch Panels equipped with RJ-45 I/Os for Data communication system with rear cable organizer including all labeling and all mounting accessories. Complete in all respects.				
a)	24-port CAT-6 patch panel for data	1		No.	

7.9	Following CAT-6, Patch Panels equipped with RJ-45 I/Os for Voice communication system with rear cable organizer including all labeling and all mounting accessories. Complete in all respects.				
a)	24-port CAT-6 patch panel for Voice	1		No.	
7.1	Front Cable Organizer for Voice & Data patch panels / wiring blocks with complete labeling and dressing for incoming cable management.	2		No.	
7.11	Following CAT-6, factory certified patch cords of specified color having RJ-45 connectors at both ends for voice communication.				
a)	3 meter long.	10		No.	
b)	1 meter long.	10		No.	
7.12	Following CAT-6, factory certified patch cords of specified color having RJ-45 connectors at both ends for Data communication.				
a)	3 meter long.	10		No.	
b)	1 meter long.	10		No.	
7.18	Supply and Installation of 42U Floor Mounted Communication Rack. Suitable for installation of servers, switches and related equipment etc. Complete with vertical cable managers. Rack shall be equipped with power distribution units (PDUs) with at least 5 imported power sockets etc. Complete in all respects.	1		No.	
7.19	Testing and Commissioning of all above items termination and connectivity at both ends, including submission of detailed test report from the Principals.	1		job	
PART 'D' DATA AND VOICE TOTAL					