

DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI



TENDER DOCUMENT

TITLE OF THE JOB

**CONSTRUCTION OF 3RD & 4TH FLOOR ON
THE EXISTING BUILDING OF SERO BIOLOGY
LAB AT OJHA CAMPUS, DUHS, KARACHI**

**NIT # DUHS/P&D/2018/9330
DATED: APRIL 30, 2018**

**OFFICE OF DIRECTOR PLANNING & DEVELOPMENT
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: CONSTRUCTION OF 3RD & 4TH FLOOR ON THE EXISTING BUILDING OF SEROBIOLOGY LAB AT OJHA CAMPUS, DUHS, KARACHI'

To,

THE PROJECT DIRECTOR
Planning & Development 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 60 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 _____ 20_____

Signature: _____

(Name of Tenderer in Block Capitals)

(Seal)

Address: _____

Witness:

Signature: _____

Name: _____

Address: _____

Occupation: _____

APPENDIX-A TO TENDER

1	Amount of Performing Security	2.5% 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 _____days 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	18 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 07days 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

- a) Project Director Planning & Development, Dow University of Health Sciences, calls tenders for the **“CONSTRUCTION OF 3RD & 4TH FLOOR ON THE EXISTING BUILDING OF SERO BIOLOGY LAB AT OJHA CAMPUS, DUHS, KARACHI”** with the bill of quantities attached here to be submitted by or before 11:00 A.M on **26-05-2018**. Tenders cost will not be reimbursed for any cost of any kind whatsoever incurred in connection with the preparations and submission of their tenders.
- b) The tender for the each work should be in the sealed envelope bearing name of the work / contractor / firm clearly marked and addressed to Project Director Planning & Development, Dow University of Health Sciences, Karachi.
- c) 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.
- d) All tender are invited to the present for the opening of the tender in **26-05-2018** at 11:30 A.M. The name of each tenderer and his total contract price only will be read aloud and recorded.
- e) 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.
- f) Detailed particulars of the work / works can be seen in the Project Director Office on any working day during the office hours.
- g) 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.
- h) 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.
- i) All prices quoted shall be deemed to include all costs of performing the works, including labour, material, income tax, duties, octori charges, royalties permit etc. and no claim whatsoever shall be accepted in case of escalation any or all prices entered in rate of bid.
- j) 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 al the rate or prices by the contractor in the tender.
- k) “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”.

- l) 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.
- m) The tender must be signed in each and every page by a person(s) authorized to do so.
- n) The site can be visited on any working day during the office hours.
- o) “Engineer” means the Project Director Planning & Development of the University or any other Engineer appointed by him.
- p) 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.
- q) The Competent Authority reserve the right to reject any or all the tenders, increase or decrease the scope of work or divide item of work among bidders.
- r) 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
Planning & Development Department
Dow University of Health Sciences, Karachi

DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI
DIRECTORATE OF PLANNING & DEVELOPMENT

TERMS & CONDITIONS

1. The work / supply is required within 10 Days from the date of letter of Commencement/award.
2. Inspection: *Nominated Inspection Committee will make Inspection of Work.*
3. In case of late delivery @ 0.1% per day will be charged on bid amount deducted from the bill, but not more than 10% of contract value.
4. Quantities shown in the quotation are approximate and no claim shall be entertained for quantities of executed being 30% more or less than those entered in the BOQ.
5. All prices will include all costs of performing the works including labour, material, Income Tax, GST, Octroi Charges, royalties & transportation etc., as mentioned in BOQ.
6. No subletting of all or any part of work will be allowed at any cost / reasons.
7. The supplier will see the site / sample before quoting the rates.
8. Store will be delivered at Dow University of Health Sciences, Karachi.
9. Central Stores and Inspection Officer will issue inspection certificate after inspection through Inspection Committee.
10. If the work / supply is not found according to the specification and samples provided, will be rejected at risk and cost of the manufacturer and in case the manufacturer fails to work / supply the order, the firm will be black listed.
11. Payment:
 - 11.1 The Actual sum to be paid shall be determined by quantifying / measurements of items actually supplied valuing it at the rates/prices quoted in the approved quotations.
 - 11.2 10% security deposit will be retained from each bill upto a period of six months from the date of supply of order.
 - 11.3 Part payment against part supply can be allowed.
12. Request letter for issuance of tender documents should be supported with:
 - a. Copy of GST, SST & NTN registration Certificate and PEC Registration in appropriate category with the following codes BC01 – BC02 – BC03 – CE01 – CE02 – CE04 – CE09 – CE10 – EE01 – EE02 – EE04 – EE06 – EE07 – EE08 – ME02 – ME03 – ME06. **(MANDATORY)**
 - b. Copies of all relevant Certificate/Authorization letter must be attached (where required) mentioned with Tender Enquiry.
13. The bidder must have done at least five (05) contracts of similar nature and magnitude “Similar nature means Construction of Building preferable at educational institutes and hospitals” (Please submit copy of PO/Contract Agreement/Notification of Award). Comply with specifications mentioned in bidding documents.
14. 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.

15. The bidder must have turnover/sales exceeding **800 Million** in PKR annually in any of last three years (Submission of Audited Annual Reports or reputable Bank confirmation letter).
16. Latest income Tax Certificate (NTN), valid GST Registration Certificate and valid SRB registration.

PROJECT DIRECTOR
Planning & Development Department
Dow University of Health Sciences, Karachi

Sr.#	Description of Item	Quantity	Rate	Unit	Total
PART 'A' THIRD FLOOR					
	(i) Civil Work				
1	Dismantling of Existing flooring / skirting i/c C.C layer and disposal of rubbish materials by mean of Tractor Trolley.	-	-	-	-
		404		P.Cft	
2	Dismantling of Existing Block Masonary and disposal of rubbish materials by mean of Tractor Trolley or Dumper.	683		P.Cft	
3	Dismantling cement concrete reinforced seperating reinforcement and disposal of rubbish materials by mean of Tractor Trolley or Dumper.	1,523		P.Cft	
4	Removing cement, lime plaster or colour crete from walls i/c removal rubbish materials from site of work by means of tractor trolley or dumper.	819		P.Sft	
5	Providing and laying R.C.C Class 'B'(Ratio 1:1-1/2:3 having a minimum crushing strength of 4000 P S 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.				
	(a) Column in Super Structure (T.Floor)	4,075		P.Cft	
6	Providing and laying R.C.C Class 'A' (Ratio 1:1:2 having a minimum crushing strength of 5000 PS I at 28 days curing), using 6 mm to 18 mm sizes graded crushed aggregate and fine aggregate including approved quality form work and its removal, all operations of viberating, levelling, 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 seperately				
	Class "A" Concrete (Super Structure Shear Walls/ Lift Walls Using O.P.C Cement) (Third Floor)	925		P.Cft	
7	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				
(i)	Lintels (T.Floor)	173		P.Cft	

(ii)	Projections (T.Floor)	187		P.Cft
(iii)	Stair Case & Landing (T.Floor)	662		P.Cft
(iv)	Roof Beams (T.Floor)	8,437		P.Cft
(v)	Roof Slabs (T.Floor)	15,677		P.Cft
8	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 include 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) Ribbed Steel Bars (T.Floor)	118		P.Ton
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') (T.Floor)	189		P.Cft
10	Providing and laying plain cement concrete Class "D" (1:3:6) 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 with out formwork i/c Roding, leveling, compacting and curing etc. complete as per specifications, drawings and to the entire satisfaction of Engineer. Ratio 1:3:6 (CLASS 'D') (T.Floor)	614		P.Cft
11	Providing and laying Class 'D' 1:3:6 Cement Concrete Hollow Block Masonary 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) 200 mm Thick (T.Floor) 150 mm Thick (T.Floor)	4,683 4,053		P.Sft P.Sft
12	Providing and laying Class 'D' 1:3:6 cement concrete Solid Block Masonary wall 4" to 12" 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) 250 mm Thick (T.Floor) 200 mm Thick (T.Floor) 150 mm Thick (T.Floor) 100 mm Thick (T.Floor)	3,617 4,683 3,764 1,342		P.Cft P.Sft P.Sft P.Sft
13	Providing and fixing G.I. sheet chowkats of 18 gauge for doors i/c pouring C.C. 1:2:4 inside chowkat & coat of red oxide paint etc complete in all respect. a. 2-1/4" x 13-1/2" b. 2-1/4" x 9-1/2" c. 2-1/4" x 5-1/2"	578 683 130		P.Rft P.Rft P.Rft

14	Providing and spraying pesticide solution of approved manufacturer inside building line in Two stages i.e. on floor base & all wood work etc, using "Agenda" or equivalent of Jaffer Brothers water mixed solution as per specifications and approval of Engineer.	30,975	P.Sft
15	Cement Plaster in Ratio 1:4 (18 mmThick) i/c floating coat of cement in proper design and profile on Roof Celings etc complete in all respects as per specifications and drawings and approval of Engineer Incharge. (T.Floor)	28,875	P.Sft
16	Cement Plaster in Ratio 1:6 (15 mmThick) 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 (T. Floor)	44,814	P.Sft
17	Cement Plaster in Ratio 1:4 (13 mmThick) 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 (T.Floor)	34,073	P.Sft
18	Providing & fixing Colour Crete to wall surface to provide, durable crust and aesthetics having thickness up to 1/2" with specified colour having water, fire3 and temite resitance over the base of 1/2 " thick cement plaster ratio (1:4) (T.Floor)	13,860	P.Sft
19	P/L C.C cement concrete 1:2:4 under floor including surface finishing etc complete.	2,573	Cft
20	Providing & fixing Graphic Wall Decorative Plaster to provide, Durable Crust and Acrylac Finish having thickness up to 13 mm with specified colour having water, fire3 and termite resitance over the base of 15mm thick cement plaster ratio 1:4 (T.Floor)	1,927	P.Sft
21	Providing and fixing Printed Granite Porcelain Tiles Flooring (24"x 24" x 1/2" or above) 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 1800 per meter or above) a Flooring (T.Floor) b Wall Dado (T.Floor) c 6" Wide Wall Border (T.Floor)	28,928 15,299 4,447	P.Sft P.Sft P.Rft

22	<p>Providing and fixing Printed Glazed Ceramic Tiles Flooring (12"x18"x1/4" 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 (Imported Premium Quality costing Rs 1600 per square meter or above)</p> <p>Wash Rooms Flooring (3rd Floor)</p>	2,645	P.Sft
23	<p>Providing and fixing Printed Glazed Ceramic Tile Dado/ Skirting (12"x18"x1/4" or above) 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)</p> <p>Wash Rooms Wall Dado (3rd.Floor)</p>	3,969	P.Sft
24	<p>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.</p>	29,033	P.Sft
22	<p>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.</p>	34,073	P.Sft
23	<p>P/Applying 3 Coats of Wheather Sheild Paint of superior quality i/c preparing base surface and filling etc complete in all respects as per directives of Engineer In charge</p>	14,123	P.Sft
24	<p>Providing and fixing in position Doors Shutter 1-1/2" thick Teak wood ply shutters of first class partal wood skeleton (Solid) styles and rails core of partal wood and Teak ply sheet (3 ply) on both sides including frost glass of 3 mm on top,partal wood lipping around shutter, hold fasts, hinges, iron tower bolts, handles and cleats with cord etc, complete.</p>	1,418	P.Sft
25	<p>Providing and fixing with sunk iron screws Oak Wood Architrave approved design/shape having width not less than 2-1/2 inches i/c french polishing etc complete as directed by Engineer Incharge.</p> <p>2-1/2" Thick</p>	2,363	P.Rft
26	<p>Providing and Applying French polishing over wood work with liqueur base spirit polish and filling material etc complete in all respect</p>	2,835	P.Sft
27	<p>Providing and fixing C.P Brass Mortice Lock with Round Handle (Imported)</p>	32	Each
28	<p>Providing and fixing C.P Brass Mortice Lock with Long Handle (Heavy Design Imported)</p>	19	Each

29	Providing and fixing C.P Brass Tower Bolt 24" Long (Heavy Design Imported) as approved by the Engineer. 24" Long	63		Each
30	S/F in position Aluminum box channels framing (100 mm x 40 mm) for office chamber partitions i/c Aluminium hinged doors of Alcop made (of approved make and design) with Aluminium Sheet 3 mm on bottom up to 300 mm height , 5 mm thick tinted frost glass glazed on remaining portion (Belgium) , 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)	509		P.Sft
31	S/F in position Aluminum box channels framing (100 mm x 40 mm) for Aluminum Doors of Alcop 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)	226		P.Sft
32	S/F in position Almuniums channels framing (100mm x 40 mm) for sliding windows & ventilator with collar of Alcop made (of approved make and design) with 5 mm thick tinted glass glazing (Belgium) and almunium fly screen channel including handles stoppers & locking arrangements etc complete in all respects as per directives of Engineer In charge (Prime/ Chawla or Equivalent) (Refer R.A # 40 on Page no 105)	1,717		P.Sft
33	Providing and laying Pre-Polished best quality imported granite beveled edges on staircase treads having 50mm wide unpolished strip, laid over concrete base over 40 mm thick concrete base (1:4) complete in all respect as per detail/ drawing and as directed by the Consultants. (Basic cost of Granite Should be Rs.800.00 per Sq ft or above)			
(i)	Stair case Treads (1500 x 375 mm x 25 mm)	84		Each
(ii)	Stair case Risers (1500 x 150 mm x 15 mm)	80		Each
(iii)	Stair case Landing Flooring (600 x 300 mmx 25 mm)	232		P.Sft
(iv)	Reception / Vanity / Kitchen Counter 25 mm	748		P.Sft
34	Providing and fixing Staircase/Terrace railing with 1-1/2"DIA STEEL PIPE @ 2'-0" C/C Vertically and on top railing With 4 Nos 5/8" dia pipe horizontally between main pipe posts of 2-1/2" dia as per required design, embeded properly in RCC work by means of iron lugs welded with MS rods, complete as per drawing, specification and satification of the Architect upto any height in any floor	563		P.Sft

35	P/Fixinf Stainless Steel Pipe Railing along with wall of 38 mm dia for Handicap persons etc complete in all respects as per directives of Engineer In charge	365		P.Rft
36	Providing & applying smooth 3/4" thick to walls columns etc. with 1:4 cement ratio, i/c all corners, recesses, jambs & raking out joints along with (Pudlo- 2 kg per bag of approved quality) complete as per drawings, specifications & as per instructions of Consultant/ Engineer In-charge.	840		P.Sft
37	Supplying and fixing False Ceiling of gypsum sheet (4'-0"X 2'-0"imported) inpanels including making frame work of imported Aluminium 'T' Channels etc complete as per drawings, specifications & as per instructions of Consultant/ Engineer In-charge.	19,142		P.Sft
38	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.	7,539		P.Sft
39	Supplying & fixing window printed blinds Shangrila (Horizontal / Vertical) with printed design and of approved colour i/c fixing in windows with necessary assessories.etc complete in all respects as per directives of Engineer In charge.	2,814		P.Sft
40	P/Fixing Expansion joint Steel Patti on both side (6" wide with 1" bend) dully fixed over P.V.C Sheet 12" wide with samad bond and steel screws as per specified design and operation etc complete in all respects as per directives of Engineer Incharge	2,814		P.Rft
41	Supplying and fixing 2" Thick thermo pole sheet in the gap of double Wall	1,869		P.Sft
42	Architectural & structural Design charges paid to be Architect. Note:- This will be executed through contractor. The contractor will have to arrange the qualified professional consultant who will prepare all necessary architectural and structural drawings i/c R.C.C Design and the payment to such consultant may be acknowledge to Project Director DUHS as the same will also paid to contractor accordingly	1		Job
Sub Total - I				
1	<u>(ii) INTERNAL WATER SUPPLY & SANITARY FITTINGS</u> Providing & fixing English Commode with Seat cover including flushing cistern,tee stop cock etc complete in all respects (Porta /Marachi or Equivalent) (Classic Model)	10		Each

2	Providing & fixing Orisa W.C 23" Clear including flushing cistern ,tee stop cock etc complete in all respects (Porta/ Marachi or Equivalent) (Classic Model)	4	Each
3	Providing & Fixing Wash Basin size 24" x18" with wash basin mixture and pedestal etc complete in all respects (Porta/Marachi or Equivalent) (Classic Model)	6	Each
4	Providing & Fixing Wash Basin size 24" x18"(Vanity type with top counter and wooden box) with wash basin mixture and pedestal etc complete in all respects (Porta/Marachi or Equivalent)(Classic Model)	2	Each
5	Providing & fixing Urinal including flushing cistern ,tee stop cock etc complete in all respects (Porta / Marachi or Equivalent) (Classic Model)	6	Each
6	Supplying/Fixing White glazed Labortary 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	4	Each
7	Providing and fixing C.P Brass Double bib cock with Muslim Shower 1/2" dia (Master/ Sonex or equivalent)	15	Each
8	Providing and fixing C.P Brass Fancy bib cock with crystal head 1/2" dia (Master / Sonex or equivalent).	13	Each
9	Providing and fixing C.P Brass Concealed stop cock with crystal head 1/2" dia (Master / Sonex or equivalent)	13	Each
10	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	4	Each
11	Providing and fixing Stainless Steel Sink Size 40" x 20" (with double Trey) i/c C.P Brass Sink Mixture , C.P waste, P.V.C Waste Pipe, Bolt kit etc complete in all respects. (Superior quality and heavy gauge)	2	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.	25	Each
13	Providing and fixing U.P.V.C. Pipe 4" dia 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.		
For Single Attached Lavatory		378	P.Rft

14	Providing and fixing U.P.V.C. pipe 4" dia grade-I (A.G.M.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. For General Lavatory and out side	714		P.Rft
15	Providing and fixing U.P.V.C. Branch 4"x4" dia with Access door, grade-I (A.G.M 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.	8		Each
16	Providing and fixing U.P.V.C. Plain.Tee 4"x4" dia or 'Y' Tee grade-I (A.G.M. 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	8		Each
17	Providing and fixing U.P.V.C. Plug Bend 4"x4" dia with Access door, grade-I (A.G.M 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. .	8		Each
18	Providing and fixing U.P.V.C. Plain Bend 4" dia grade-I (A.G.M. 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.	12		Each
19	Providing & fixing of PPR PN-20 cold 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 consealed 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	680		P.Rft
	(ii) 25 mm	440		P.Rft
	(iii) 20 mm	280		P.Rft
	(iv) 13 mm	320		P.Rft
20	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	2		Each
	(ii) 25 mm	4		Each
	(iii) 20 mm	6		Each
	(iv) 13 mm	4		Each

21	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 rquired 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)	3" Dia pipe	714		P.Rft
(ii)	2" Dia pipe	662		P.Rft
(iii)	1-1/2" Dia pipe	462		P.Rft
22	Providing and fixing Gun Metal wheel Threaded Valve (Made in Italy)			
(i)	3" Dia Valve	2		Each
(ii)	2" Dia Valve	2		Each
(iii)	1-1/2" Dia Valve	4		Each
21	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.	6		Each
22	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).	2		Each
23	Supplying & fixing Hydraulic Hand Dryer of approved Make & Design (Imported).	6		Each
24	Providing & fixing Bavelled edge mirror of belgium glass (Above 3.00 Sft) complete with 3" thich pre polished wooden border, 1/8" thick hard board and C.P. screws fixed to wooden pleat.(Superior Quality)	63		P.Sft
TOTAL				
	<u>(iii) INTERNAL SUI GAS FITTINGS</u>			
1	Providing and fixing Brass Gas Cock 1/4" dia imported	13		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)	4		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.	4		Each

4	Providing & fixing of Gas Geyser of approved and Design (35 Litres) 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 molded 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	651		P.Rft	
(ii)	13 mm	399		P.Rft	
6	Providing & fixing of PE-80 (PolyethyleneT-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	2		Each	
(ii)	13 mm	6		Each	
				TOTAL	
<u>WIRING INSTALLATION</u>					
1	Providing & wiring of one or first light point controlled through one switch/light dimmer, wired with 3 x 1.5mm ² S/C PVC insulated cable laid in 20mm dia PVC pipe concealed in wall/slab/floor as per site condition complete with all wiring & conduiting accessories such as C/I Saddle, junction box, flexible PVC pipe between roof and false ceiling/light fixture, complete in all respect.	236		Nos	
2	Same as item No.1, above but, wiring of additional light point controlled through the same switch.	26		Nos	
3	Same as item No.1 above but wiring of Fan & Exhaust Fan point, complete with all accessories same as item No. 1	42		Nos	
4	Same as item No. 1 above but wiring with 3 x 2.5mm for 5/10/15 Amp light/Power Switch Socket outlet for multipurpose use	53		Nos	
5	Same as item No.1 above but wiring with 2 x 4mm + 1 x 2.5mm for EE for 5/10/15 Amp light/power switch socket outlet for multipurpose use	11		Nos	
6	Same as item No.1, above but wiring with 3 x 6mm for power switch socket outlet for multipurpose use	11		Nos	
7	Same as item No.1 above, but wiring of circuit with 3 x 2.5mm from distribution board to respective light switch as shown on drawing & as per instruction of consultant.	42		Nos	

8	Same as item No.1 above, but wiring of circuit with 3x 4mm from distribution board to respective light switch as shown on drawing & as per instruction of consultant.	11		Nos	
9	Same as item No.1 above, but wiring of circuit with 3x 6mm from distribution board to respective light switch as shown on drawing & as per instruction of consultant.	11		Nos	
10	Providing, fixing, testing & commissioning Clipsal/MK- UK make gang switches fixed on suitable size 1.5mm thick sheet steel back boxes recessed in wall, complete in all respect 10 Amp switch one gang 10 Amp switch two gang 10 Amp switch three gang 10 Amp switch Four gang 10 Amp switch five gang Fan Dimmer	16 11 5 21 16 32		Nos Nos Nos Nos Nos Nos	
11	Same as item No.6, above but switch socket outlet fixed on suitable size steel back box a) 5/10 Amps 3 Pin , switch socket outlet b) 13 Amp Flat Pin, switch socket outlet b) 15 Amp 3 Pin, switch socket outlet	53 11 11		Nos Nos Nos	
12	Providing & Fixing of 1.5mm Powder coated MS back Box with Earthing Terminal	173		Nos	
TOTAL					
LIGHT FIXTURE					
13	Providing & Fixing of Panel Light 2x2 LED Ohm white 42W Complete Osaka.	236		Nos	
14	Providing & Fixing of LED Panel Light 6" Round 20watts (Philips)	63		Nos	
15	Providing & Fixing of LED Surface Light 8" 12watts (Philips/Osaka)	11		Nos	
16	Providing, Fixing & Commissioning of False Ceiling Fan 2 x 2	63		Nos	
17	Providing & Fixing of Exhaust Fan 6"	10		Nos	
TOTAL					
FEEDER & SUBSTATION					
18	Providing, lying testing and commissioning of following sizes multi/single core PVC/PVC cable with all accessories including cable bracket/ hanger/termination accessories laid in suitable size PVC pressure pipe or cable tray as shown on drawing and as per specification, complete in all respect and ready for use, work include provided all PVC pipes.	1		Nos	
19	From M.P.D.P to D.B- Gr, 1 , 2, 3 & 4				
a	1 x 35mm ² 4 core PVC/PVC Pakistan Cable + 1 x 16mm ² S/C PVC ECC.	1,050 1,050		Rft	

b	1 x 70mm ² 4 core PVC/PVC Pakistan Cable + 1 x 16mm ² S/C PVC ECC.			Rft
MAIN LT CABLE				
20	Providing, fixing and connecting of PVC/PVC Pure Copper Conductor unarmored Pakistan Cables 440/1000V grade in PVC/RCC conduit with digging work, Bricks work, Warning Tape Work, Main Holes work, Road Crossing complete in all respect as per drawings and specifications through Professional Engineers.			
a	01x 240mm 4Core PVC/PVC Pakistan Cable	840		Rft
b	supply/laying 300mm single core (pakistan cable)	19,446		Rft
TOTAL				
29	Main L.T DISTRIBUTION POWER PANEL Providing, Installation, testing & commissioning of Main L.T Distribution Panel coupled with Generator Power Panel 2mm thick sheet fabricated floor mounted free standing cubical design suitable for 415v, 3 phase, 4 wire, 50Hz, A/C system with following component and configuration as shown on drawing Capacity of busbar 1600 Amp. Complete with all fixing accessories. 99.9% Pakistan Copper busbar to be used	1		Nos
	INCOMING FROM KE			
	1-1600 Amps, T.P, 45 KA, MCCB/ACB	1		
	3-C.T 1600/5 Amps with 65VA burden	3		
	3-Ammeter scaled 0-1600 Amps (95 x 95 Digital type) Panel face	1		
	1-Digital Voltmeter scaled 0-440 volt with S/S on panel face	1		
	1-Set of ON-TRIP indication lamps	1		
	1-Neutral Busbar	1		Nos
	1-Earth Busbar	1		
	OUTGOING			
	1-800 Amps, T.P, 45 KA, MCCB/ACB	1		
	1-600 Amps, T.P, 45 KA, MCCB	5		
	1 - 250 Amps, T.P, 25 KA MCCB	2		
	1-125 Amps, T.P, 25 KA MCCB	2		
30	S. M.D.B (Panels) Supplying, installation, connection testing & commissioning of Sub Main Distribution Board double powder coated Panel Color, in 16 SWG, should be factory assembled Ready complete controlled Wired/Standard Capacity Copper Bus Bars, MCCB, LED Indications, Digital Volt Meters, Digital Ampere Meters with CT's, Neutral & Earth Copper Bus Bars & Complete as per Electric Drawing, should Be Original Schneider/Terasaki JAPAN made MCCB Breakers OR approved / equalant in all respect.	5		Nos
a	01x 400Amp MCCB (Adj)/ Breaker	1		
b	01x 250Amp MCCB (Adj)/ Breaker	2		
c	01x 160Amp MCCB (Adj)/ Breaker	3		
D.B- (Panels)				

31	<p>Supplying, installation, connection testing & commissioning of Distribution Board , double powder quoted Panel Color, in 16 SWG, should be factory assembled Ready complete controlled Wired/Standard Capacity Copper double Bus Bars, , LED Indications, Digital Volt Meters, Digital Ampere Meters with CT's, Neutral & Earth Copper Bus Bars & Complete as per Electric Drawing, should Be Original Schneider/Terasaki JAPAN made ACB & MCCB Breakers OR approved / equalant in all respect.</p> <p>1 -250Amp, 25K MCCB Breaker 1 -160Amp, 25K MCCB Breaker 1 - 32Amp, SP Breaker 1 - 63Amp, 3 Pole Breaker 1 - 32Amp, 2 Pole Breaker</p>	10		Nos	
32	<p>Pumping Room Motors</p> <p>Complete ATS & (Star+Delta) Panel through Float valve controlling in all respect for Lab building. Piping, changeover Valves, complete foundations, and etc as required on site.</p>	1		Nos	
a	1 - 15HP double (Siemens Motor with Javed Company's Pump for lab water use.	1		Nos	
b	1 - 7HP double (Siemens Motor with Javed Company's Pump for lab water use.	1		Nos	
TOTAL					
34	<p>EARTHING SYSYTEM</p> <p>Providing, Fixing, Testing and Commissioning of 13 x meters long, 100mm dia of UPVC Pipe with Cover, Copper Rod 01" x 10', Copper Conductor for holding Rod in 95mm with lugs, Copper Strip 1' x 1.5" x 3/8" including heavy insulators, all related chemicals compounds as per drawing and specifications. Main Whole with Cover in all respect. Result of Earth Pit <u>MUST be</u> less than 01 Ohm and 01 Volt.</p>	10		Nos	
35	<p>CABLE TRAY</p> <p>Providing and installation of following size of Cable Tray GI16 SWG with cover i/c accessories on wall surface.</p> <p>a) 100mm x 200mm</p>	315		RFT	
TOTAL					
1	<p><u>(vi) Telephone Net Work & Data Collection System</u></p> <p>Supply & installation of following 0.6 mm dia. Shielded telephone cables in 25 mm dia PVC conduit.</p> <p>(a) Cat - 6 (b) Telephone Cable 10 pair.</p>	257 194		P.Mtr. P.Mtr.	
2	<p>Supply & installation of following boards as per drawings fabricated from 16 SWG sheet steel powder coated box with hinged covered door.</p> <p>a)Telephone Junction Box with (8 x 25 pair punch block) tag block.)</p>	1		Each	

3	Supply & installation of following telephone outlets (i/o + Face Plate) with back box.(Hussain make)			
	a) RJ-45 for telephone system.	16		Each
	b) RJ-45 for Data system.	15		Each
	c) RJ-45 for Data system. (Duplex)	4		Each
4	Supply and installation of Cat-6 giga speed cable AT & T/clipsal make for data system in 25 mm dia PVC conduit	221		P.Mtr.
5	Card Access Control System	2		Each
6	Wiring for Card Access	2		Each
7	Supply / Fixing of Industrial UPS 5 Kva i/c wiring with dry battery and neccessary angle iron bracket for errecting UPS (Imported)	1		Each
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. 24-port CAT-6 patch panel for data	1		Each
9	Following CAT-6, Patch Panels equipped with RJ-45 I/Os for voice communication system with near cable organizer i/c all labelling system and all mounting accessories etc complete in all respects. 24-port CAT-6 patch panel for Voice	1		Each
10	Front Cable Organizer for Voice & Data patch panels / wiring blocks with complete labeling and dressing for incoming cable management.	2		Each
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.	11		Each
b	1 meter long.	11		Each
12	Supply, Installation, testing and commissioning of Data Switch (10G) for Cat-6 Cable.	1		Each
13	Supply / Installation of 42 U Floor mounted Communication Rack. suitable for installation of servers,switches and related equipment etc. Complete with vertical cable managers with at Rack shall be equipped with power distribution units (PDUs) least 5 imported power sockets etc complete in all respects.	1		Each
14	Testing and commissioning of all above items termination			

	and connectivity at both ends, including submission of detailed test report from the Principals.	1		P.Job	
				Total	
	PART 'B' FOURTH FLOOR				
	(i) Civil Work				
1	Providing and laying R.C.C Class 'B'(Ratio 1:1-1/2:3 having a minimum crushing strength of 4000 P S 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	-	-	-	-
	(a) Column in Super Structure (4th Floor)	4,075		P.Cft	
2	Providing and laying R.C.C Class 'A' (Ratio 1:1:2 having a minimum crushing strength of 5000 PS I at 28 days curing), using 6 mm to 18 mm sizes graded crushed aggregate and fine aggregate including approved quality form work and its removal, all operations of viberating, levelling, 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 seperately				
	Class "A" Concrete (Super Structure Shear Walls/ Lift Walls Using O.P.C Cement) (4th Floor)	925		P.Cft	
3	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				
(i)	Lintels (4th Floor)	173		P.Cft	
(ii)	Projections (4th Floor)	187		P.Cft	
(iii)	Stair Case & Landing (4th Floor)	662		P.Cft	
(iv)	Roof Beams (4th Floor)	8,437		P.Cft	
(v)	Roof Slabs (4th Floor)	15,677		P.Cft	

4	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 include 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) (Refer R.A # 13on Page no 30) Ribbed Steel Bars (4th Floor)	118	P.Ton
5	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') (4th Floor)	189	P.Cft
6	Providing and laying plain cement concrete Class "D" (1:3:6) 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 with out formwork i/c roding,leveling,compacting and curing etc complete as per specifications,drawings and to the entire satisfaction of Engineer. Ratio 1:3:6 (CLASS 'D') (4th Floor)	614	P.Cft
7	Providing and laying Class 'D' 1:3:6 Cement Concrete Hollow Block Masonary 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) 200 mm Thick (4th Floor) 150 mm Thick (4th Floor)	4,683 4,053	P.Sft P.Sft
8	Providing and laying Class 'D' 1:3:6 cement concrete Solid Block Masonary wall 4" to 12" 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) a. 250 mm Thick (4th Floor) b. 200 mm Thick (4th Floor) c. 150 mm Thick (4th Floor) d. 100 mm Thick (4th Floor)	3,617 4,683 3,764 1,342	P.Cft P.Sft P.Sft P.Sft
9	Providing and fixing G.I. sheet chowkats of 18 gauge for doors i/c pouring C.C. 1:2:4 inside chowkat & coat of red oxide paint etc complete in all respect a. 2-1/4" x 13-1/2" b. 2-1/4" x 9-1/2" c. 2-1/4" x 5-1/2"	578 683 130	P.Rft P.Rft P.Rft
10	Providing and spraying pesticide solution of approved manufacturer inside building line in Two stages i.e. on floor base & all wood work etc, using "Agenda" or equivalent of Jaffer Brothers water mixed solution as per specifications and approval of Engineer.	30,975	P.Sft

11	Cement Plaster in Ratio 1:4 (18 mmThick) i/c floating coat of cement in proper design and profile on Roof Ceilings etc complete in all respects as per specifications and drawings and approval of Engineer Incharge Roof Ceilings (4th Floor)	29,925	P.Sft
12	Cement Plaster in Ratio 1:6 (15 mmThick) 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 (4th Floor)	46,914	P.Sft
13	Cement Plaster in Ratio 1:4 (13 mmThick) 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 (4th Floor)	38,273	P.Sft
14	Providing & fixing Colour Crete to wall surface to provide, durable crust and aesthetics having thickness up to 1/2" with specified colour having water, fire3 and temite resitance over the base of 1/2 " thick cement plaster ratio (1:4) (Fourth Floor)	15,960	P.Sft
15	P/L C.C cement concrete 1:2:4 under floor including surface finishing etc complete.	2,573	Cft
16	Providing & fixing Graphic Wall Decorative Plaster to provide, Durable Crust and Acrylac Finish having thickness up to 13 mm with specified colour having water, fire3 and termite resitance over the base of 15mm thick cement plaster ratio 1:4 (Fourth Floor)	1,927	P.Sft
17	Providing and fixing Printed Granite Porcelain Tiles Flooring (24"x 24" x 1/2" or above) 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 1800 per meter or above) a Flooring (4th Floor) b Wall Dado (4th Floor) c 6" Wide Wall Border (4th Floor)	28,928 14,570 4,447	P.Sft P.Sft P.Rft
18	Providing and fixing Printed Glazed Ceramic Tiles Flooring (12"x18"x1/4" 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 (Imported Premium Quality costing Rs 1600 per square meter or above)		

	Wash Rooms Flooring (4th Floor)	2,777		P.Sft	
19	Providing and fixing Printed Glazed Ceramic Tile Dado/ Skirting (12"x18"x1/4" or above) 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 sand 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)				
	Wash Rooms Wall Dado (4th .Floor)	3,969		P.Sft	
20	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.	30,083		P.Sft	
21	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.	38,273		P.Sft	
22	P/Applying 3 Coats of Weather Sheild Paint of superior quality i/c preparing base surface and filling etc complete in all respects as per directives of Engineer In charge.	16,223		P.Sft	
23	Providing and fixing in position Doors Shutter 1-1/2" thick Teak wood ply shutters of first class partal wood skeleton (Solid) styles and rails core of partal wood and Teak ply sheet (3 ply) on both sides including frost glass of 3 mm on top, partal wood lipping around shutter, hold fasts, hinges, iron tower bolts, handles and cleats with cord etc, complete.	1,418		P.Sft	
24	Providing and fixing with sunk iron screws Oak Wood Architrave approved design/shape having width not less than 2-1/2 inches i/c french polishing etc complete as directed by Engineer Incharge. 2-1/2" Thick	2,363		P.Rft	
25	Providing and Applying French polishing over wood work with liqueur base spirit polish and filling material etc complete in all respect	2,835		P.Sft	
26	Providing and fixing C.P Brass Mortice Lock with Round Handle (Imported)	32		Each	
27	Providing and fixing C.P Brass Mortice Lock with Long Handle (Heavy Design Imported)	19		Each	
28	Providing and fixing C.P Brass Tower Bolt 24" Long (Heavy Design Imported) as approved by the Engineer. 24" Long	63		Each	

29	S/F in position Aluminum box channels framing (100 mm x 40 mm) for office chamber partitions i/c Aluminium hinged doors of Alcop made (of approved make and design) with Aluminium Sheet 3 mm on bottom up to 300 mm height , 5 mm thick tinted frost glass glazed on remaining portion (Belgium) , 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)	509		P.Sft
30	S/F in position Aluminum box channels framing (100 mm x 40 mm) for Aluminum Doors of Alcop 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)	226		P.Sft
31	S/F in position Almuniums channels framing (100mm x 40 mm) for sliding windows & ventilator with collar of Alcop made (of approved make and design) with 5 mm thick tinted glass glazing (Belgium) and almunium fly screen channel including handles stoppers & locking arrangements etc complete in all respects as per directives of Engineer In charge (Prime/ Chawla or Equivalent)	1,717		P.Sft
32	Providing and laying Pre-Polished best quality imported granite beveled edges on staircase treads having 50mm wide unpolished strip, laid over concrete base over 40 mm thick concrete base (1:4) complete in all respect as per detail/ drawing and as directed by the Consultants. (Basic cost of Granite Should be Rs.800.00 per Sq ft or above)			
(i)	Stair case Treads (1500 x 375 mm x 25 mm)	84		Each
(ii)	Stair case Risers (1500 x 150 mm x 15 mm)	80		Each
(iii)	Stair case Landing Flooring (600 x 300 mm x 25 mm)	232		P.Sft
(iv)	Reception / Vanity / Kitchen Counter 25 mm	748		P.Sft
33	Providing and fixing Staircase/Terrace railing with 1-1/2"DIA STEEL PIPE @ 2'-0" C/C Vertically and on top railing With 4 Nos 5/8" dia pipe horizontally between main pipe posts of 2-1/2" dia as per required design, embeded properly in RCC work by means of iron lugs welded with MS rods, complete as per drawing, specification and satification of the Architect upto any height in any floor	563		P.Sft
34	P/Fixinf Stainless Steel Pipe Railing along with wall of 38 mm dia for Handicap persons etc complete in all respects as per directives of Engineer In charge	365		P.Rft

35	Providing & applying smooth 3/4" thick to walls columns etc. with 1:4 cement ratio, i/c all corners, recesses, jambs & raking out joints along with (Pudlo- 2 kg per bag of approved quality) complete as per drawings, specifications & as per instructions of Consultant/ Engineer In-charge.	840	P.Sft
36	Supplying and fixing False Ceiling of gypsum sheet (4'-0"X 2'-0"imported) inpanels including making frame work of imported Aluminium 'T' Channels etc complete as per drawings, specifications & as per instructions of Consultant/ Engineer In-charge.	19,142	P.Sft
37	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.	7,539	P.Sft
38	Supplying & fixing window printed blinds Shangrila (Horizontal / Vertical) with printed design and of approved colour i/c fixing in windows with necessary accessories etc complete in all respects as per directives of Engineer In charge.(Additional R.A Attached)	2,814	P.Sft
41	P/Fixing Expansion joint Steel Patti on both side (6" wide with 1" bend) dully fixed over P.V.C Sheet 12" wide with samad bond and steel screws as per specified design and operation etc complete in all respects as per directives of Engineer Incharge	2,814	P.Rft
42	Supplying and fixing 2" Thick thermo pole sheet in the gap of double Wall (Additional R.A Attached)	1,869	P.Sft
	<u>(ii) INTERNAL WATER SUPPLY & SANITARY FITTINGS</u>		
1	Providing & fixing English Commode with Seat cover including flushing cistern,tee stop cock etc complete in all respects (Porta /Marachi or Equivalent) (Classic Model)	11	Each
2	Providing & fixing Orisa W.C 23" Clear including flushing cistern ,tee stop cock etc complete in all respects (Porta/ Marachi or Equivalent) (Classic Model)	4	Each
3	Providing & Fixing Wash Basin size 24" x18" with wash basin mixture and pedestal etc complete in all respects (Porta/Marachi or Equivalent) (Classic Model)	6	Each
4	Providing & Fixing Wash Basin size 24" x18"(Vanity type with top counter and wooden box) with wash basin mixture and pedestal etc complete in all respects (Porta/Marachi or Equivalent)(Classic Model)	2	Each

5	Providing & fixing Urinal including flushing cistern ,tee stop cock etc complete in all respects (Porta / Marachi or Equivalent) (Classic Model)	6	Each
6	Supplying/Fixing White glazed Labortary sink bowl of approved made and design (Standard Size) as per standard reqUREMENT i/c bolt kit brackets, C.P. waste and waste pipe etc complete in all respects	4	Each
7	Providing and fixing C.P Brass Double bib cock with Muslim Shower 1/2" dia (Master/ Sonex or equivalent)	15	Each
8	Providing and fixing C.P Brass Fancy bib cock with crystal head 1/2" dia (Master / Sonex or equivalent).	13	Each
9	Providing and fixing C.P Brass Concealed stop cock with crystal head 1/2" dia (Master / Sonex or equivalent)	13	Each
10	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	4	Each
11	Providing and fixing Stainless Steel Sink Size 40" x 20" (with double Trey) i/c C.P Brass Sink Mixture , C.P waste, P.V.C Waste Pipe, Bolt kit etc complete in all respects. (Superior quality and heavy gauge)	2	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.	25	Each
13	Providing and fixing U.P.V.C. Pipe 4" dia 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. For Single Attached Lavatory	378	P.Rft
14	Providing and fixing U.P.V.C. pipe 4" dia grade-I (A.G.M.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. For General Lavatory and out side	714	P.Rft
15	Providing and fixing U.P.V.C. Branch 4"x4" dia with Access door, grade-I (A.G.M 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.	8	Each

16	Providing and fixing U.P.V.C. Plain.Tee 4"x4" dia or 'Y' Tee grade-I (A.G.M. 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.	8		Each	
17	Providing and fixing U.P.V.C. Plug Bend 4"x4" dia with Access door, grade-I (A.G.M 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. .	8		Each	
18	Providing and fixing U.P.V.C. Plain Bend 4" dia grade-I (A.G.M. 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.	13		Each	
19	Providing & fixing of PPR PN-20 cold 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 consealed 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	714		P.Rft	
(ii)	25 mm	440		P.Rft	
(iii)	20 mm	280		P.Rft	
(iv)	13 mm	336		P.Rft	
20	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	2		Each	
(ii)	25 mm	4		Each	
(iii)	20 mm	6		Each	
(iv)	13 mm	4		Each	
21	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 rquired 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)	3" Dia pipe	714		P.Rft	
(ii)	2" Dia pipe	662		P.Rft	
(iii)	1-1/2" Dia pipe	462		P.Rft	
22	Providing and fixing Gun Metal wheel Threaded Valve (Made in Italy)				

(i)	3" Dia Valve	2		Each
(ii)	2" Dia Valve	2		Each
(iii)	1-1/2" Dia Valve	4		Each
21	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.	6		Each
22	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).	2		Each
23	Supplying & fixing Hydraulic Hand Dryer of approved Make & Design (Imported)	6		Each
24	Providing & fixing Bavelled edge mirror of belgium glass (Above 3.00 Sft) complete with 3" thich pre polished wooden border, 1/8" thick hard board and C.P. screws fixed to wooden pleat.(Superior Quality)	63		P.Sft
				TOTAL
WIRING INSTALLATION (4TH FLOOR)				
1	Providing & wiring of one or first light point controlled through one switch/light dimmer, wired with 3 x 1.5mm ² S/C PVC insulated cable laid in 20mm dia PVC pipe concealed in wall/slab/floor as per site condition complete with all wiring & conduiting accessories such as C/I Saddle, junction box, flexible PVC pipe between roof and false ceiling/light fixture, complete in all respect.	236		Nos
2	Same as item No.1, above but, wiring of additional light point controlled through the same switch.	26		Nos
3	Same as item No.1 above but wiring of Fan & Exhaust Fan point, complete with all accessories same as item No. 1	42		Nos
4	Same as item No. 1 above but wiring with 3 x 2.5mm for 5/10/15 Amp light/Power Switch Socket outlet for multipurpose use	53		Nos
5	Same as item No.1 above but wiring with 2 x 4mm + 1 x 2.5mm for EE for 5/10/15 Amp light/power switch socket outlet for multipurpose use	11		Nos
6	Same as item No.1, above but wiring with 3 x 6mm for power switch socket outlet for multipurpose use	11		Nos

7	Same as item No.1 above, but wiring of circuit with 3 x 2.5mm from distribution board to respective light switch as shown on drawing & as per instruction of consultant.	42		Nos	
8	Same as item No.1 above, but wiring of circuit with 3x 4mm from distribution board to respective light switch as shown on drawing & as per instruction of consultant.	11		Nos	
9	Same as item No.1 above, but wiring of circuit with 3x 6mm from distribution board to respective light switch as shown on drawing & as per instruction of consultant.	11		Nos	
10	Providing, fixing, testing & commissioning Clipsal/MK- UK make gang switches fixed on suitable size 1.5mm thick sheet steel back boxes recessed in wall, complete in all respect			0.00	
	10 Amp switch one gang	16		Nos	
	10 Amp switch two gang	11		Nos	
	10 Amp switch three gang	5		Nos	
	10 Amp switch Four gang	21		Nos	
	10 Amp switch five gang	16		Nos	
	Fan Dimmer	32		Nos	
11	Same as item No.6, above but switch socket outlet fixed on suitable size steel back box				
	a) 5/10 Amps 3 Pin , switch socket outlet	53		Nos	
	b) 13 Amp Flat Pin, switch socket outlet	11		Nos	
	b) 15 Amp 3 Pin, switch socket outlet	11		Nos	
12	Providing & Fixing of 1.5mm Powder coated MS back Box with Earthing Terminal	173		Nos	
				TOTAL	
LIGHT FIXTURE					
13	Providing & Fixing of Panel Light 2x2 LED Ohm white 42W Complete Osaka.	236		Nos	
14	Providing & Fixing of LED Panel Light 6" Round 20watts (Philips)	63		Nos	
15	Providing & Fixing of LED Surface Light 8" 12watts (Philips/Osaka)	11		Nos	
16	Providing, Fixing & Commissioning of False Ceiling Fan 2 x 2	63		Nos	
17	Providing & Fixing of Exhaust Fan 6"	11		Nos	
				TOTAL	
CABLE TRAY					
26	Providing and installation of following size of Cable Tray GI16 SWG with cover i/c accessories on wall surface. a) 100mm x 200mm	872		P. Rft	
				TOTAL	
(iii) INTERNAL SUI GAS FITTINGS					

1	Providing and fixing Brass Gas Cock 1/4" dia imported	13		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)	4		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	4		Each
4	Providing & fixing of Gas Geyser of approved and Design (35 Litres) 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 molded 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	651		P.Rft
(ii)	13 mm	399		P.Rft
6	Providing & fixing of PE-80 (PolyethyleneT-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	2		Each
(ii)	13 mm	6		Each
				TOTAL
1	<u>(vi) Telephone Net Work & Data Collection System</u> Supply & installation of following 0.6 mm dia. shielded telephone cables in 25 mm dia PVC conduit. (a) Cat - 6 (b) Telephone Cable 10 pair.	257 194		P.Mtr. P.Mtr.
2	Supply & installation of following boards as per drawings fabricated from 16 SWG sheet steel powder coated box with hinged covered door. a)Telephone Junction Box with (8 x 25 pair punch block) tag block.	1		Each
3	Supply & installation of following telephone outlets (i/o + Face Plate) with back box.(Hussain make) a) RJ-45 for telephone system. b) RJ-45 for Data system.	16 15		Each Each

	c) RJ-45 for Data system. (Duplex)	4		Each	
4	Supply and installation of Cat-6 giga speed cable AT & T/clipsal make for data system in 25 mm dia PVC conduit	221		P.Mtr.	
5	Card Access Control System	2		Each	
6	Wiring for Card Access	2		Each	
7	Suplly/ Fixing of Industrial UPS 5 Kva i/c wiring with dry battery and neccessary angle iron bracket for errecting UPS (Imported)	1		Each	
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. 24-port CAT-6 patch panel for data	1		Each	
9	Following CAT-6, Patch Panels equipped with RJ-45 I/Os for voice communication system with near cable organizer i/c all labelling system and all mounting accessories etc complete in all respects. 24-port CAT-6 patch panel for Voice	1		Each	
10	Front Cable Organizer for Voice & Data patch panels / wiring blocks with complete labeling and dressing for incoming cable management.	2		Each	
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.	11		Each	
b	1 meter long.	11		Each	
12	Supply, Installation, testing and commissioning of Data Switch (10G) for Cat-6 Cable.	1		Each	
13	Supply / Installation of 42 U Floor mounted Communication Rack. suitable for installation of servers,switches and related equipment etc. Complete with vertical cable managers with at Rack shall be equipped with power distribution units (PDUs) least 5 imported power sockets etc complete in all respects.	1		Each	
14	Testing and commissioning of all above items termination and connectivity at both ends, including submission of detailed test report from the Principals.	1		P.Job	
				Total	
	PART 'C' ADDITIONAL STAIR TOWER				

	(i) Ground Floor			
1	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 Incharge. Lead up to 300 Feet & lift up to 6 feet (i) IN ALL TYPE OF SOILS EXCEPT HARD ROCK.	2,100		Cft
2	Stone pitching hand packed with surface levelled off to the correct section with hammer dressed stones (size100-150 mm) and filling voids with crush ash under foundation , compacting with compactor etc complete in all respects as per specifications provided and instruction given by the Engineer Incharge	420		Cft
3	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)	210		Cft
4	Providing and laying plain cement concrete Class "D"(1:3:6) work in foundation having minimum s 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, levelling, compacting and curing etc. complete as per specifications, drawings and to the entire satisfaction of Engineer.Ratio 1:3:6 (CLASS 'D')	336		Cft
5	BITU-POLE Treatment to plastered or exposed Concrete Surface under foundation to be buried in trench as directed by Engineer Incharge.	457		Sft
6	Providing and laying R.C.C Class 'B' (Ratio 1:1-1/2:3) having a minimum crushing strength of 4000 P S 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, levelling, 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.			
i	Class "B" Concrete (Footings/ RAFTS Using S.R Cement)	525		Cft
ii	Class "B" Concrete (Pedestal Columns & Plinth Beams Using S.R Cement)	50		Cft
iii	Class "B" Concrete Super Structure Columns Using O.P.C Cement)	168		Cft

7	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.			
(iii)	Stair Case & Landing	221		P.Cft
(iv)	Roof Beams	218		P.Cft
(v)	Roof Slabs	215		P.Cft
8	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 include 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).			
	Deformed Bar	5		Ton
9	Earth filling with off site material (brought from out side source) in plinth, depression and where ever required laid in 300 m m layer well watered, consolidated and compacted with mechanical means complete as per drawings and as directed by the Consultants. Lead up to 06 Mile with in source and Lift up to 05 Feet			
		1,208		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 4" Thick Ratio 1:4:8 (CLASS 'E') (Under Floor Using S.R Cement)			
		399		P.Sft
11	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)			
		651		Cft
12	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) 200 mm Thick 150 mm Thick			
		137		P.Sft
		173		P.Sft
13	Cement Plaster in Ratio 1:4 (18 mm Thick) i/c floating coat of cement in proper design and profile on Roof Ceilings etc complete in all respects as per specifications and drawings and approval of Engineer Incharge.			
		410		P.Sft

14	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. 15 mm thick Internal / External	1,838	P.Sft
15	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. 13 mm thick Internal / External	1,838	P.Sft
16	Supplying and fixing 2" Thick thermo pole sheet in the gap of double Wall , columns & Beams (Additional R.A.Attached)	158	P.Sft
17	Providing and fixing Printed Granite Porcelain Tiles Flooring (24"x 24" x 1/2" or above) 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 1800 per meter or above)		
	a Flooring	399	P.Sft
	b Wall Dado	165	P.Sft
	c 6" Wide Wall Border	142	P.Rft
18	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.	326	P.Sft
19	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.	1,208	P.Sft
20	P/Applying 3 Coats of Wheather Sheild Paint of superior quality i/c preparing base surface and filling etc complete in all respects as per directives of Engineer In charge.	893	P.Sft
21	S/F in position Almuniums channels framing (100mm x 40 mm) for sliding windows & ventilator with collar of Alcop made (of approved make and design) with 5 mm thick tinted glass glazing (Belgium) and almunium fly screen channel including handles stoppers & locking arrangements etc complete in all respects as per directives of Engineer In charge(Prime/ Chawla or Equivalent).	50	P.Sft

22	Providing & fixing Colour Crete to wall surface to provide, durable crust and aesthetics having thickness upto 1/2" with specified colour having water, fire3 and temite resistance over the base of 1/2 " thick cement plaster Ratio (1:4).	650	P.Sft
23	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"	27	P.Rft
24	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	50	P.Sft
25	Providing and fixing C.P Brass Mortice Lock with Long Handle (Heavy Design Imported)	1	Each
26	Providing and laying Pre-Polished best quality imported granite bevelled edges on staircase treads having 50mm wide unpolished strip, laid over concrete base over 40 mm thick concrete base (1:4) complete in all respect as per detail/ drawing and as directed by the Consultants. (Basic cost of Granite Should be Rs.800.00 per Sq ft or above)		
(i)	Stair case Treads (1500 x 375 mm x 25 mm)	40	Each
(ii)	Stair case Risers (1500 x 150 mm x 15 mm)	45	Each
(iii)	Entrance/Stair case Landing Flooring (600 x 300 mm x 18 mm)	120	P.Sft
27	Providing and fixing Staircase/Terrace railing with 2"DIA STEEL PIPE @ 2'-0" C/C Vertically and on top railing With 4 Nos 5/8" dia pipe horizontally between main pipe posts of 2-1/2" dia as per required design, embedded properly in RCC work by means of iron lugs welded with MS rods, complete as per drawing, specification and ratification of the Architect unto any height in any floor.	142	P.Sft
28	P/Fixing Stainless Steel Pipe Railing along with wall of 50 mm dia for Handicap persons etc complete in all respects as per directives of Engineer In charge	68	Rft
29	Providing and installation polished Entrance glass with fabricating and fixing standard S.S Channel (using standard section)as approved top & bottom the architect with approved quality bottom rails, brush finish as required, with sand blasting Complete with patch fitting, top & bottom locks (from ISEO,Geza or equivalent as approved). Contractor is required to provide joints between the panels with minimum 5mm thick clear silicon from Dow corning or other approved, as as per requirement of Architecture Drawings and specifications etc complete in all respects as per directives of Engineer In charge.	89	P.Sft

				Total	
	(ii) First Floor				
1	Providing and laying R.C.C Class 'B' (Ratio 1:1-1/2:3) having a minimum crushing strength of 4000 P S 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, levelling, 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				
iii	Class "B" Concrete Super Structure Columns Using O.P.C Cement)	168		Cft	
2	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				
(iii)	Stair Case & Landing	210		P.Cft	
(iv)	Roof Beams	218		P.Cft	
(v)	Roof Slabs	215		P.Cft	
3	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 include 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).				
	Deformed Bar	3		Ton	
4	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)				
	200 mm Thick	137		P.Sft	
	150 mm Thick	173		P.Sft	
5	Cement Plaster in Ratio 1:4 (18 mm Thick) i/c floating coat of cement in proper design and profile on Roof Ceilings etc complete in all respects as per specifications and drawings and approval of Engineer Incharge.				
		410		P.Sft	

6	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 15 mm thick Internal / External	1,838	P.Sft
7	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 13 mm thick Internal / External	1,838	P.Sft
8	Supplying and fixing 2" Thick thermo pole sheet in the gap of double Wall , columns & Beams (Additional R.A.Attached)	158	P.Sft
9	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.	326	P.Sft
10	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.	1,208	P.Sft
11	P/Applying 3 Coats of Wheather Sheild Paint of superior quality i/c preparing base surface and filling etc complete in all respects as per directives of Engineer In charge.	893	P.Sft
12	S/F in position Almuniums channels framing (100mm x 40 mm) for sliding windows & ventilator with collar of Alcop made (of approved make and design) with 5 mm thick tinted glass glazing (Belgium) and almunium fly screen channel including handles stoppers & locking arrangements etc complete in all respects as per directives of Engineer In charge(Prime/ Chawla or Equivalent).	50	P.Sft
13	Providing & fixing Colour Crete to wall surface to provide, durable crust and aesthetics having thickness upto 1/2" with specified colour having water, fire3 and temite resitance over the base of 1/2 " thick cement plaster Ratio (1:4).	683	P.Sft
14	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"	27	P.Rft

15	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	50		P.Sft	
16	Providing and fixing C.P Brass Mortice Lock with Long Handle (Heavy Design Imported)	1		Each	
17	Providing and laying Pre-Polished best quality imported granite bevelled edges on staircase treads having 50mm wide unpolished strip, laid over concrete base over 40 mm thick concrete base (1:4) complete in all respect as per detail/ drawing and as directed by the Consultants. (Basic cost of Granite Should be Rs.800.00 per Sq ft or above). (i) Stair case Treads (1500 x 375 mm x 25 mm) (ii) Stair case Risers (1500 x 150 mm x 15 mm) (iii) Entrance/Stair case Landing Flooring (600 x 300 mm x 18 mm)	40 45 126		Each Each P.Sft	
18	Providing and fixing Staircase/Terrace railing with 2"DIA STEEL PIPE @ 2'-0" C/C Vertically and on top railing With 4 Nos 5/8" dia pipe horizontally between main pipe posts of 2-1/2" dia as per required design, embedded properly in RCC work by means of iron lugs welded with MS rods, complete as per drawing, specification and ratification of the Architect unto any height in any floor.	142		P.Sft	
20	P/Fixing Stainless Steel Pipe Railing along with wall of 50 mm dia for Handicap persons etc complete in all respects as per directives of Engineer In charge.	68		Rft	
				Total	
	(iii) Second Floor				
1	Providing and laying R.C.C Class 'B' (Ratio 1:1-1/2:3) having a minimum crushing strength of 4000 P S 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, levelling, 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.				
iii	Class "B" Concrete Super Structure Columns Using O.P.C Cement)	168		Cft	

2	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			
(iii)	Stair Case & Landing	221		P.Cft
(iv)	Roof Beams	218		P.Cft
(v)	Roof Slabs	215		P.Cft
3	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 include 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).			
	Deformed Bar	3		Ton
4	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)			
	200 mm Thick	137		P.Sft
	150 mm Thick	173		P.Sft
5	Cement Plaster in Ratio 1:4 (18 mm Thick) i/c floating coat of cement in proper design and profile on Roof Ceilings etc complete in all respects as per specifications and drawings and approval of Engineer Incharge			
		410		P.Sft
6	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.			
	15 mm thick Internal / External	1,838		P.Sft
7	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.			
	13 mm thick Internal / External	1,838		P.Sft
8	Supplying and fixing 2" Thick thermo pole sheet in the gap of double Wall , columns & Beams (Additional R.A.Attached)			
		158		P.Sft

9	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.	326		P.Sft
10	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.	1,208		P.Sft
11	P/Applying 3 Coats of Weather Sheild Paint of superior quality i/c preparing base surface and filling etc complete in all respects as per directives of Engineer In charge.	893		P.Sft
12	S/F in position Almuniums channels framing (100mm x 40 mm) for sliding windows & ventilator with collar of Alcop made (of approved make and design) with 5 mm thick tinted glass glazing (Belgium) and almunium fly screen channel including handles stoppers & locking arrangements etc complete in all respects as per directives of Engineer In charge(Prime/ Chawla or Equivalent).	50		P.Sft
13	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 temite resitance over the base of 1/2 " thick cement plaster Ratio (1:4).	683		P.Sft
14	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"	27		P.Rft
15	Providing and fixing in position Doors Shutter 1-1/2" thick Teak wood ply shutters (Partially glazed with frost glass where as reqiured) 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	50		P.Sft
16	Providing and fixing C.P Brass Mortice Lock with Long Handle (Heavy Design Imported).	1		Each
17	Providing and laying Pre-Polished best quality imported granite bevelled edges on staircase treads having 50mm wide unpolished strip, laid over concrete base over 40 mm thick concrete base (1:4) complete in all respect as per detail/ drawing and as directed by the Consultants. (Basic cost of Granite Should be Rs.800.00 per Sq ft or above).			
(i)	Stair case Treads (1500 x 375 mm x 25 mm)	40		Each
(ii)	Stair case Risers (1500 x 150 mm x 15 mm)	45		Each

(iii)	Entrance/Stair case Landing Flooring (600 x 300 mm x 18 mm)	126		P.Sft	
18	Providing and fixing Staircase/Terrace railing with 2"DIA STEEL PIPE @ 2'-0" C/C Vertically and on top railing With 4 Nos 5/8" dia pipe horizontally between main pipe posts of 2-1/2" dia as per required design, embedded properly in RCC work by means of iron lugs welded with MS rods, complete as per drawing, specification and ratification of the Architect unto any height in any floor.	142		P.Sft	
20	P/Fixing Stainless Steel Pipe Railing along with wall of 50 mm dia for Handicap persons etc complete in all respects as per directives of Engineer In charge.	68		Rft	
				Total	
PART 'D' Roof Area,Towers & Over Head Tanks					
<u>(i) Civil Work</u>					
1	Providing and laying R.C.C Class 'B'(Ratio 1:1-1/2:3 having a minimum crushing strength of 4000 P S 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	-	-	-	-
(a) Column in Super Structure (4th Floor)					
2	Providing and laying R.C.C Class 'A' (Ratio 1:1:2 having a minimum crushing strength of 5000 PS I at 28 days curing), using 6 mm to 18 mm sizes graded crushed aggregate and fine aggregate including approved quality form work and its removal, all operations of viberating, levelling, 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	116		P.Cft	
Class "A" Concrete (Super Structure Shear Walls/ Lift Walls Using O.P.C Cement) (4th Floor)					
3	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.	84		P.Cft	

(iv)	Roof Beams (5th Floor)	1,087		P.Cft
(v)	Roof Slabs (5th Floor)	2,342		P.Cft
4	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 include 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)			
	Ribbed Steel Bars (5th Floor)	19		P.Ton
5	Providing and laying plain cement concrete Class "D" (1:3:6) 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 with formwork i/c roding,leveling,compacting and curing etc complete as per specifications,drawings and to the entire satisfaction of Engineer.			
	Ratio 1:3:6 (CLASS 'D') (5th Floor)	719		P.Cft
7	Providing and laying Class 'D' 1:3:6 cement concrete Solid Block Masonary wall 4" to 12" 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)			
	a. 200 mm Thick (5th Floor)	483		P.Sft
	b. 150 mm Thick (5th Floor)	2,930		P.Sft
	c. 100 mm Thick (5th Floor)	756		P.Sft
8	Providing and fixing G.I. sheet chowkats of 18 gauge for doors i/c pouring C.C. 1:2:4 inside chowkat & coat of red oxide paint etc complete in all respect.			
	b. 2-1/4" x 9-1/2"	68		P.Rft
	c. 2-1/4" x 5-1/2"	27		P.Rft
9	Cement Plaster in Ratio 1:4 (18 mmThick) i/c floating coat of cement in proper design and profile on Roof Celings etc complete in all respects as per specifications and drawings and approval of Engineer Incharge			
	Roof Ceilings (5th Floor)	819		P.Sft
10	Cement Plaster in Ratio 1:6 (15 mmThick) 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 masonary where as required etc complete in all respects as per specifications and drawings and approval of Engineer Incharge			
(i)	15 mm thick Internal / External (5th Floor)	8,064		P.Sft

11	Cement Plaster in Ratio 1:4 (13 mmThick) 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 (5th Floor)	8,064		P.Sft
12	Providing & fixing Colour Crete to wall surface to provide, durable crust and aesthetics having thickness up to 1/2" with specified colour having water, fire ³ and temite resistance over the base of 1/2 " thick cement plaster ratio (1:4).			
	(Fourth Floor)	1,596		P.Sft
13	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.	819		P.Sft
14	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.	1,523		P.Sft
15	P/Applying 3 Coats of Wheather Sheild Paint of superior quality i/c preparing base surface and filling etc complete in all respects as per directives of Engineer In charge.	6,872		P.Sft
16	Providing and fixing in position Doors Shutter 1-1/2" thick Teak wood ply shutters of first class partal wood skeleton (Solid) styles and rails core of partal wood and Teak ply sheet (3 ply) on both sides including frost glass of 3 mm on top,partal wood lipping around shutter, hold fasts, hinges, iron tower bolts, handles and cleats with cord etc, complete.	71		P.Sft
17	Providing and fixing with sunk iron screws Oak Wood Architrave approved design/shape having width not less than 2-1/2 inches i/c french polishing etc complete as directed by Engineer Incharge.			
	2-1/2" Thick	53		P.Rft
18	Providing and Applying French polishing over wood work with liqueur base spirit polish and filling material etc complete in all respect	143		P.Sft
19	S/F in position Almuniums channels framing (100mm x 40 mm) for sliding windows & ventilator with collar of Alcop made (of approved make and design) with 5 mm thick tinted glass glazing (Belgium) and almunium fly screen channel including handles stoppers & locking arrangements etc complete in all respects as per directives of Engineer In charge			
	(Prime/ Chawla or Equivalent)	116		P.Sft

20	Supplying and fixing 2" Thick thermo pole sheet in the gap of double Wall (Additional R.A Attached)	1,869		P.Sft
21	Providing and laying Topping of cement concrete (1:2:4) including surface finishing & dividing into panels. b) 2" thick (5th Floor)	29,988		P.Sft
22	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.			
a	with out canvas	3,675		P.Sft
b	with Canvas	29,988		P.Sft
For Over Head Tanks				
23	Providing and laying R.C.C Class 'B' Concrete (1:1-1/2: 3) having a minimum crushing strength of 4000 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 seperately.			
(i)	Bottom Slab (5th Floor)	462		P.Cft
(ii)	Beams / Structure Walls (5th Floor)	815		P.Cft
(iii)	Top Slab (5th Floor)	278		P.Cft
24	Providing & fixing PVC Water Stopper 12" high PVC water stopper for safeguarding them from hydro-static pressures & water seepages of approved quality & maintaining proper alignment, complete in all respects as per drawings, specification & as per instructions of Consultant/ Engineer In-charge.	242		P.Rft
25	Providing & laying of 3" thick C.C.Toping with finish floor, preparation & laying in 1:2:4 using Pea Crush or fine crush along with (Pudlo- 2 kg per bag of approved quality) over bottom slab complete as per drawings, specifications & as per instructions of Consultant/Engineer In-charge.	504		P.Sft
26	Providing & applying smooth 3/4" thick to walls columns etc. with 1:4 cement ratio, i/c all corners, recesses, jambs & raking out joints along with (Pudlo- 2 kg per bag of approved quality) complete as per drawings, specifications & as per instructions of Consultant/ Engineer In-charge.	929		P.Sft
27	P/F Steel Man Hole Cover (18" x 18") in water tank roof of approved design with water tight joint etc complete in all respects as per specifications and drawings and approval of Engineer Incharge.	4		Each

28	P/F in position in C.C foundation 1:3:6 M.S ladder of M.S angle iron 2"x2"x1/4" 1' apart with M.S bar 3/4" dia spaced 1' apart painting 3 coats with anticorrosive steel paint etc complete. in all respects as per specifications and drawings and approval of Engineer Incharge.	84		P.Rft
				Total
	<u>PART 'D' FACE LIFTING AND INSTALLATION OF 1000 KG PASSENGER LIFT WORKS</u>	-		
1	Providing and laying Pre-Polished best quality imported granite beveled edges on Wall Facing of 20mm Thick polished laid over concrete base over 40 mm thick concrete base (1:4) complete in all respect as per detail/ drawing and as directed by the Consultants. (Basic cost of Granite Should be Rs.800.00 per Sq ft or above)			
(i)	On Wall Facing	1,192		P.Sft
2	S/F in position M.S Staircase i/c foundation, welding, scaffolding, M.S Ancor bolts, S.M steps M.S. Landing M.S Railing. Steps: M.S Angle iron 1-1/2" 3/16 gauge for M.S Chequer Plate 12 SWG. Landing Area: M.S Channel 4" 2swg. Railing: M.S pipe 1-1/2" dia, 16swg, post pipe 1" dia 16swg & horizontal pipe 1/2" dia 16swg. Spiral Centre Pipe: M.S 5" dia 10swg	252		P.Rft
3	Supplying and fixing imported Passenger lift (MR) with 800Kg loading capacity & speed 1.0 m/s 09 stops served 5 Floors shaft size 6'-0"x6'-0" and travel ht 70 ft. having gearless machine VVVF Drive type alongwith car protective device, include VVVF car door operator with Panasonic drive or equivalent, hairless s/s 304 finish material on car door, landing doors and car with machine power 380/3p/50hz light 220/1p/50hz. Basic Function: Emergency light cut off the illumination & fan overload detector arrive gone, attendant operation cancel error indicate function, Auto rescue system .Three way phone. include fireman operation and 'fireman return operation' in basic functions. Universal completely integrated controller and inverter CE/TUV certified. Counterweight frame, counter weight blocks and all other materials should be completely imported. No local material should be used.	1		Each
				TOTAL
1	External Development . 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 Incharge.Lead up to 300 Feet & lift up to 6 feet (i) IN ALL TYPE OF SOILS	4,043		P.Cft

2	Earth filling with off site material (brought from out side source) in plinth, depression and where ever required laid in 300 m m layer well watered, consolidated and compacted with mechanical means complete as per drawings and as directed by the Consultants. Lead up to 06 Mile with in source and Lift up to 05 Feet	8,978	P.Cft
3	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)	4,174	P.Cft
4	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 daysfor 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) (Refer R.A # 09 on Page no 09)	809	P.Cft
5	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 include 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) (Refer R.A # 13on Page no 30) Ribbed Steel Bars (F.Floor)	16	P.Ton
6	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 (Refer R.A # 10 on Page no 11) Footings Plinth Beam R.C.C wall bottom and top slab	187 570 263	P.Cft P.Cft P.Cft
7	Providing and laying Class 'D' 1:3:6 cement concrete Solid Block Masonary 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) (Refer R.A # 16 on Page no 40) 150 mm Thick 200 mm Thick	2,363 4,725	P.Sft P.Sft

8	Cement Plaster in Ratio 1:6 (15 mmThick) 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 (Refer R.A # 17on Page no 46)			
(i)	15 mm thick Internal / External	15,750		P.Sft
9	Cement Plaster in Ratio 1:4 (13 mmThick) 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 (Refer R.A # 18 on Page no 47)			
(i)	13 mm thick Internal / External	15,000		P.Sft
10	P/Applying 3 Coats of Wheather Sheild Paint of superior quality i/c preparing base surface and filling etc complete in all respects as per directives of Engineer In charge (Refer R.A # 45 on Page no 110)			
		15,750		P.Sft
11	Providing and fixing Printed Glazed Ceramic Hala Pattern Tiles i (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) (Refer R.A # 26 on Page no 68)			
		263		P.Sft
12	Supplying and fixing special heavy type steel doors for Medical Colleges with angle iron frame of 2-1/2" * 2-1/2" * 3/8" size and shutter of 2" * 2" * 3/8" with 1" diameter M.S bars Placed @ 4" center to center with a seperate locking box having size of 12" * 12" of M.Steel sheet embeded in masonry with proper locking arrangement as per approved design including cost of erection of steel work, painting one coat of red oxide paint and two coats of enamel paint over steel gate, fixing in masonry wall in cement concrete 1: 2: 4 etc, complete as per instructions of Engineer Incharge. (Refer Additional R.A Attached)			
		180		P.Sft
13	Making and fixing grating in opening including fixing at site with flat iron 2"*3/8" and 3/4" square bars at 4" center to center as per approved design including cost of erection of steel work,painting one coat of red oxide paint and two coats of enamel paint over steel gate, fixing in masonry wall in cement concrete 1: 2: 4 etc, complete as per instructions of Engineer Incharge. (Refer Additional R.A Attached).			
		1,911		P.Sft

14	Providing and fixing JUNG-SHAHI Stone Tile on Face Elevation (Plain Stone Tile Duly Mixed With Ornamental Emborced Stone Tile as per Design Requiurements) (12" x6" x 3/4") jointed in white cement and laid over bed of 3/4"thick grey cement send mortar ratio 1:3 i/c washing / filling of joints with white cement etc: complete in all respect (Refer R.A # 76on Page no 153)	4,095	P.Sft
15	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 (Refer R.A # 76 on Page no 151)	935	P.Rft
16	Providing and fixing Stone Tile flooring as per Design Requiurements (12"x 12"x 1") jointed in white cement and laid over bed of 1"thick C.C ratio 1:2:4 i/c washing / filling of joints with white cement etc: complete in all respect (Refer Additional R.A Attached).	2,500	P.Sft
17	Providing and fixing Printed Glazed Ceramic Tiles on Floor or Dado (12"x18"x1/4" 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 (Imported Premium Quality costing Rs 1600 per square meter or above)	8,925	P.Sft
18	Water Proofing chemical cleaning with brush then apply primary coat, chemical usede then heavy rich coat of 10-55 with out canvas	840	Sft
			Total

Grand Total

CONTRACTOR

PROJECT DIRECTOR
Dow University of Health
Sciences, Karachi