NAME OF THE WORK:-ADDITION, ALTERATION & RENOVATION OF 'A' TYPE QUARTERS AT NIT, ROURKELA ABSTRACT OF COST

Summery:

| 1 | SECTION-I | |
|----|--------------------|---------------|
| 1. | | |
| • | Earthwork | Rs 740775.60 |
| 2. | SECTION-II | |
| • | Dismantling | Rs 163952.60 |
| 3. | SECTION-III | |
| • | Concrete Work | Rs 2615926.42 |
| 4. | SECTION-IV | |
| • | Brick Work | Rs 657134.92 |
| 5. | SECTION-V | |
| • | Marble Work | Rs 173912.32 |
| 6. | SECTION-VI | |
| • | Wood Work/Pvc Work | Rs 2197273.83 |
| 7. | SECTION-VII | |
| • | Steel Work | Rs 719154.75 |
| 8. | SECTION-VIII | |
| • | Flooring | Rs 6921841.78 |
| 9. | SECTION-IX | |
| • | Finishing | Rs 6047380.24 |
| 10 | . SECTION-X | |
| • | Repair | Rs 731083.90 |
| 11 | . SECTION-XI | |
| • | Aluminium Work | Rs1889035.94 |

SANITARY/PLUMBING/WATER SUPPLY

| 12. | CE | СТ | וחו | NI_I |
|-----|----|----|-------|------------|
| 12. | JL | CI | I U I | N-I |

• Sanitary Rs 1035352.44

13. SECTION-II

• Water supply Rs 829772.24

14. SECTION-III

• Drainage Rs 199121.31

TOTAL Rs 24921718.26

ESTIMATE

NAME OF THE WORK:-ADDITION,ALTERATION & RENOVATION OF 'A' TYPE QUARTERS AT NIT,ROURKELA

| SI no | ITEM | UNIT | RATE | QTY | AMOUNT | NIT REF NO |
|----------|---|------|--------|--------|-----------|---------------|
| | SECTION-I | | | L | | l. |
| | EARTHWORK | | | | | |
| 1 | Earthwork in excavation by mechanical means | | | | | |
| | (Hydraulic excavator)/manual means overareas | | | | | |
| | (Exceeding 30Cm in depth 1.5m in width as well | | | | | |
| | as 10 Sq.M on Plan) including disposal of | cum | 114.68 | 540.00 | 61927.20 | sl no-3 |
| | excavted earth lead upto 50m and lift upto 1.5m | | | | | |
| | disposed earth to be levelled and neatly dressed | | | | | |
| | (All kinds of Soil) Earthwork in excavation by mechanical means | | | | | |
| | · | | | | | |
| | (Hydraulic excavator)/manual means in | | | | | |
| | foundation trenchs or drains (Exceeding 30Cm | | | | | |
| | in depth 1.5m in width as well as 10 Sq.M on | | | | | |
| | Plan) including dressing of sides and ramming of | cum | 116.41 | 510.00 | 59369.10 | sl no-5 |
| | bottoms including getting out the excavated soil | | | | | |
| | and disposal of surplus excavated soil as | | | | | |
| | directed, within a lead of 50Mtr. (All kinds of | | | | | |
| | Soil) | | | | | |
| 3 | Supplying and filling in plinth with river sand | | | | | |
| | under floors including watering ramming | cum | 273.14 | 380.00 | 103793.20 | sl no-9 |
| | consolidating and dressing complete. | | | | | |
| 4 | Filling available excavated earth (excluding rock) | | | | | |
| | in trenches, plinth, sides of foundation etc. in | | | | | |
| | layers not exceeding 20Cm in depth, | cum | 50.77 | 380.00 | 19292.60 | sl no-8 |
| | consolidating each deposited layer by ramming | | | | | |
| | and watering, lead upto 50M and lift upto 1.5M | | | | | |
| 5 | Surface dresssing of the ground including | | | | | |
| | removing vegetation and in equalities not | 100 | 564.19 | 500.00 | 282095.00 | sl no-10 |
| | exceeding 15 Cm deep and disposal of rubbish , | sqm. | 551,17 | 200.00 | 202075.00 | 5. 110 10 |
| | Lead upto 50M and lift upto 1.5M | | | | | |

| SI no | ITEM | UNIT | RATE | QTY | AMOUNT | NIT REF NO |
|----------|--|------|--------|--------|-----------|---------------|
| 6(a) | Along external wall where the apron is not | | | | | |
| | provided using chemical emulsion @ 7.5 Ltr/ | | | | | |
| | Sq.M of the vertical surfaces of the substructure | | | | | |
| | to a depth of 300mm including excavaation of | | | | | |
| | channel along the wall & rodding etc complete Chloropyriphos /Lindane emulsifiable concentrate of 20% with 1% concentration | RM | 33.42 | 575.00 | 19216.50 | sl no-13(a) |
| (b) | Treatment of soil under existing floor using | | | | | |
| | chemical emulsion @one litr per hole, 300 mm | | | | | |
| | apart including drilling 12mm diameter holes | | | | | |
| | and plugging with cement mortar 1:2 (1 Cement : | | | | | |
| | 2 Sand) to match the existing floor | | | | | |
| | Chloropyriphos /Lindane emulsifiable concentrate of 20% with 1% concentration | Sq.M | 185.76 | 950.00 | 176472.00 | sl no-13(b) |
| © | Along the external wall below concrete or | | | | | |
| | masonry apron using chemical emulsion | | | | | |
| | @2.25litr per linier metre including drilling and | | | | | |
| | plugging holes etc. Chloropyriphos /Lindane emulsifiable | | | | | |
| | concentrate of 20% with 1% concentration | RM | 37.22 | 500.00 | 18610.00 | sl no-13(c) |
| | SECTION II | | | TOTAL | 740775.60 | |
| - | SECTION-II DISMANTLING | | | | | 1 |
| 7 | Demolishing cement concrete manually/ by | | | | | |
| | mechanical means including disposal of | | | | | |
| | materials with in 50mtr lead as per direction of | | | | | |
| | Engineer inCharge. | | | | | |
| | Cement concrete 1:4:8 or leanear Mix | Cum | 249.75 | 60.00 | 14985.00 | sl no-356(b) |
| 8 | Dismantling R.C.C. work, including stacking of | | | 00.00 | 11700.00 | |
| | steel bars and disposal of unservicable amterials within 50mtr lead as per direction of Engineer | Cum | 591.38 | 41.00 | 24246.58 | sl no-357 |
| 9 | incharge. Demolishing brickwork manually/ by | | | | | |
| | mechanical means including stacking of | | | | | |
| | servicable materials and disposal of unservicable | Cum | 342.07 | 44.00 | 15051.08 | sl no-360 |
| | materials with in 50mtr lead as per direction of | | | | | |
| | Engineer in Charge | | | | | |
| 10 | Dismantling doors windows and clearstorey | | | | | |
| | windows (steelor wood shutter)including | | | | | |
| | chowkaths architrave holdfasts etc. complete and | | | | | |
| | | - | - | | | |

| SI no | ITEM | UNIT | RATE | QTY | AMOUNT | NIT REF NO |
|----------|--|---------|----------|------------|----------------|---------------|
| | Of area 3 Sq.M and below | Each | 69.57 | 100.00 | 6957.00 | sl no-363(a) |
| 11 | Dismantling tile work in floors laid in cement | | | | | |
| | mortar including stacking materials within 50mtr | | | | | |
| | lead | | | | | |
| | For thickness of tile above 10mm and upto 25mm | sqm | 17.01 | 760.00 | 12927.60 | sl no-368 |
| 12 | Taking out doors windows and clearstorey | | | | | |
| | window shutters (Steel or Wood) including | | | | | |
| | , | | | | | |
| | stacking within 50mtr lead: | Γο ob | 26.70 | 05.00 | 2526 50 | al no 201/a) |
| | Of area 3 Sq.M and below | Each | 26.70 | 95.00 | 2536.50 | sl no-364(a) |
| 13 | Dismantling G.I pipes (External work) | | | | | |
| | including excavation and refilling of trenches | | | | | |
| | after taking out the pipes manually /by | | | | | |
| | mechanical mean including stacking of pipes | | | | | |
| | within 50mtr lead as per direction of | | | | | |
| | Engineer in Charge: 15mm to 40mm dia nominal bore | D) (| 27.04 | 55.00 | 1500.55 | 1 200() |
| 14 | Dismantling C.I pipes including excavation | RM | 27.01 | 57.00 | 1539.57 | sl no-380(a) |
| 14 | and refilling of trenches after taking out the | | | | | |
| | pipes manually /by mechanical means, | | | | | |
| | breaking lead joints, melting of lead and | | | | | |
| | making into blocks including stacking of | | | | | |
| | pipes within 50mtr lead as per direction of | | | | | |
| | Engineer in Charge: | | | | | |
| | Upto 150mm diameter | RM | 69.65 | 33.00 | 2298.45 | sl no-381(a) |
| 15 | Dismantling of flushing cistern of any size | | | | | |
| | including stacking of useful materials near | Each | 179.38 | 39.00 | COOF 02 | 1 202 |
| | the site and disposal of unservicable | Lacii | 179.50 | 39.00 | 6995.82 | sl no-383 |
| | materials within 50mtr lead. | | | | | |
| 16 | Dismantling old plaster or skirting racking out | | | | | |
| | joints and cleaning the surface for plaster | | | | | |
| | including disposal of rubbish to the dumping | sqm | 8.99 | 8500.00 | 76415.00 | sl no-385 |
| | ground within 50mtr lead | | | | | |
| | | | | TOTAL | 163952.60 | |
| | SECTION-III (CONCRETE WORK UPTO PLINT | H LEVEL | ./CONCRE | TE WORK AB | OVE PLINT LEVI | EL) |
| | CONCRETE WORK UPTO PLINTH LEV | EL | | | | |
| 17 | Providing and laying in position cement concrete | | | | | |
| | of specified grade excluding the cost of centering | | | | | |
| | and shuttering. Cement concrete in 1:2:4 (1 | | 4065.29 | 77.00 | 313027.33 | sl no-22 |
| | | | 4003.27 | 77.00 | 313027.33 | 31 110-22 |
| | Cement : 2 sand:4 Coarse Aggregate 20mm | | | | | |
| | Down) | | | | | |

| SI | ITEM | UNIT | RATE | QTY | AMOUNT | NIT REF |
|----|--|--------------|---------|---------|-----------|----------|
| 10 | Providing and laying in position cement concrete | | | | | NO |
| 10 | | | | | | |
| | of specified grade excluding the cost of centering | | | | | |
| | and shuttering. Cement concrete in 1:4:8 (1 | Cum | 3077.31 | 77.00 | 236952.87 | sl no-25 |
| | Cement : 4 sand:8 Coarse Aggregate 40mm | | | | | |
| | Down) | | | | | |
| | CONCRETE WORK ABOVE PLINTH | | | | | |
| | LEVEL | | | | | |
| 19 | Providing and laying cement concrete in | | | | | |
| | retaining walls return walls (any thickness) | | | | | |
| | including attached pilasters Columns Piers | | | | | |
| | Abutment Pilllars Post Buttress string or lacing | | 4054.40 | 20.00 | 100102 (0 | |
| | courses Parapets Coping bed block anchor blocks | Cum | 4851.12 | 39.00 | 189193.68 | sl no-27 |
| | plain window sills fillets etc upto floor Five Level | | | | | |
| | excluding the cost of centering and shuttering | | | | | |
| | and finishing | | | | | |
| | CC 1:1½:3 (1 Cement:1½ Coarse Sand:3 | | | | | |
| 20 | Coarse Aggregate 20mm Down) Providing andlaying cement concrete in retaining | | | | | |
| | walls return walls (any thickness) including | | | | | |
| | attached pilasters Columns Piers Abutment | | | | | |
| | Pilllars Post Buttress string or lacing courses | | | | | |
| | Parapets Coping bed block anchor blocks plain | Cum | 4409.86 | 77.00 | 339559.22 | sl no-28 |
| | window sills fillets etc upto floor Five Level | | | | | |
| | excluding the cost of centering and shuttering | | | | | |
| | and finishing | | | | | |
| | CC 1:2:4 (1 Cement:2 Coarse Sand:4 Coarse | | | | | |
| | Aggregate 20mm Down) | | | | | |
| 21 | Providing and laying damp proof course 40mm | | | | | |
| | thick with cement concrete 1:2:4 (1 cement:2 | sqm | 184.14 | 115.00 | 21176.10 | sl no-29 |
| | min cement concrete 1.2.4 (1 centent.2 | 34111 | 101.14 | 115.00 | 21170.10 | 31110 23 |
| | sand:4 coarse aggregate 12.5mm nominal size) | | | | | |
| 22 | Extra for Providing and mixing water proofing | Per bag | 252.50 | 1000 00 | 20002112 | |
| | materials in cement concrete work @ 1Kg per | of cement | 352.68 | 1080.00 | 380894.40 | sl no-33 |
| | 50kg Of cement | | | | | |

| SI no | ITEM | UNIT | RATE | QTY | AMOUNT | NIT REF NO |
|----------|--|------|---------|--------|-----------|---------------|
| | Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3sand:6 Coarse aggregate) over 75mmm thick bed of dry brick ballast 40mm nominal size well rammed and consolidated and grouted with fine sand including finishing the top smooth REINFORCEMENT CEMENT CONCRETE WORK UPTO PLINTH Providing and laying in position Reinforced cement concrete of specified grade excluding the | Sq.M | 267.13 | 960.00 | 256444.80 | sl no-34 |
| | cost of centering and shuttering. Cement concrete in 1:1½:3 (1 Cement : 1½ sand:3 Coarse Aggregate 20mm Down) | Cum | 4622.35 | 30.00 | 138670.50 | sl no-36 |
| | REINFORCEMENT CEMENT CONCRETE WORK ABOVE PLINTH | | | | | |
| 25 | Providing and laying Reinforced cement concrete in retaining walls return walls (any thickness) including attached pilasters Columns Piers Abutment Pilllars Post Buttress string or lacing courses Parapets Coping, slab beam, staircase, bed block anchor blocks plain window sills fillets etc upto floor Five Level excluding the cost of centering and shuttering and finishing | cum | 5019.81 | 30.00 | 150594.30 | sl no-39 |
| | CC 1:1½:3 (1 Cement:1½ Coarse Sand:3 Coarse Aggregate 20mm Down) | | | | | |
| | CENTERING & SHUTTERING | | | | | |
| | Foundations footing bases of column etc for mass concrete | sqm | 110.23 | 95.00 | 10471.85 | sl no-45 |
| | Suspended floors roofs landings balconies and access platform | sqm | 161.74 | 152.00 | 24584.48 | sl no-47 |
| 28 | Lintels beams plinth beams girders bressumers and cantilevers. | sqm | 145.75 | 140.00 | 20405.00 | sl no-48 |
| 29 | Columns Pillars piers Abutment Posts and strutts | sqm | 213.01 | 114.00 | 24283.14 | sl no-49 |

| SI no | ITEM | UNIT | RATE | QTY | AMOUNT | NIT REF NO |
|----------|--|-------|----------|-----------|------------|---------------|
| 30 | Providing precast cement concrete slab 1:2:4 (1 | | | | | |
| | cement : 2sand: 4 Coarse aggregate 6mm | | | | | |
| | nominal size) reinforced with 6mm dia mild | | | | | |
| | steel including cenetring abd shuttering | | | | | |
| | roughening and cleaning fixing and finishing in | | | | | |
| | cement mortar 1:3(1 cement: 3 sand) etc | | | | | |
| | | | | | | |
| | complete excluding plastering of jambs sills and | | | | | |
| (a) | soffits. 50mm thick precast slab | sqm | 707.76 | 200.00 | 141552.00 | sl no-59(a) |
| | 25mm thick precast slab | sqm | 505.55 | 285.00 | 144081.75 | sl no-59(b) |
| | Providing and placing reinforcement for R.C.C. | oqiii | 200.00 | 200.00 | 111001.70 | 31 110 33(8) |
| | | | | | | |
| | work including straightining cutting bending | | | | | |
| | | | | | | |
| | placing in position and binding allcomplete. Thermo Mechanically Treated Bars | | | | | |
| | Thermo Meenumeany Treated Suit | Kg | 64.01 | 3500.00 | 224035.00 | sl no-60 |
| | | | | TOTAL | 2615926.42 | |
| | SECTION-IV (BRICK WORK UPTO PLIN | TH/AE | OVE PLIN | NTH) | | ı |
| | BRICK WORK UPTO PLINTH LEVEL | - | | , | | |
| 32 | Brick work with F.P.S bricks of class designation | | | | | |
| | 75 in foundation and plinth in cement mortar 1:6 | | 2963.50 | 96.00 | 284496.00 | sl no-65 |
| | - | Cum | 2705.50 | 70.00 | 204470.00 | 31 110 03 |
| | (1cement: 6 Sand) | | | | | |
| | BRICK WORK ABOVE PLINTH LEVEL | | | | | |
| | BRICK WORK ABOVE FLINTH LEVEL | | | | | |
| 33 | Brick work with F.P.S bricks of class designation | | | | | |
| | 75 in Super structure above plinth levell upto V | | | | | |
| | floor level in all shapes and size in Cement | Cum | 3318.10 | 88.00 | 291992.80 | sl no-70 |
| | - | | | | | |
| 3/1 | mortar 1:6 (1cement: 6 sand) Half brick masonry with FPS bricks of class | | | | | |
|]] | designation 75 in Super structure above plinth | | | | | |
| | | sqm | 410.09 | 166.00 | 68074.94 | sl no-73 |
| | levell upto V floor level in Cement mortar 1:4 (1 | | | | | |
| 25 | cement: 4 sand) Extra for providing and placing in position 2 Nos | | | | | |
| 35 | | | | . د د د د | | |
| | 6mm dia M.S.Bars at every third layer of half | sqm | 75.73 | 166.00 | 12571.18 | sl no-74 |
| | brick work (With F.P.S bricks) | | | | | |
| | | | | TOTAL | 657134.92 | |
| | SECTION-V(MARBLE WORK) | | 1 | T | | 1 |
| | MARBLE WORK | | | | | |

| SI no | ITEM | UNIT | RATE | QTY | AMOUNT | NIT REF NO |
|----------|--|------|-----------|-------|-----------|---------------|
| 36 | Providing and fixing of 18mm thick gang saw cut | | | | | |
| | mirror polished (pre moulded and pre polished) | | | | | |
| | machine cut for kitchen platform vanity counters | | | | | |
| | window sill facials and similar location of | | | | | |
| | trequired size of approved shade colour and | | | | | |
| | texture laid over 20mm thick base cement mortar | | | | | |
| | 1:4 with joints treated with white cement mixed | | | | | |
| | with matching pigment epoxy touch ups | | | | | |
| | | | | | | |
| | including rubbingcuring moulding and polishing | | | | | |
| | to edges to give high gloss finish etc complete at | | | | | |
| | all levels Granite of any colourmirror polished and | | | | | |
| | machine cut edge area of slab upto 0.5Sq.M | sqm | 2288.32 | 76.00 | 173912.32 | sl no-87(a) |
| | | | | TOTAL | 173912.32 | |
| | SECTION-VI(WOOD WORK & PVC WO | RK) | | | | |
| | WOOD WORK & PVC WORK | | | | | |
| 37 | Providing wood work in framed of doors | | | | | |
| | Windows, clearstorey windows and other frames, wrought framed and fixed in | | | | | |
| | position: | | | | | |
| | Second class teak wood | cum | 109190.60 | 3.10 | 338490.86 | sl no-96 |
| 38 | Providing wood work in framed of doors | | | | | |
| | Windows, clearstorey windows and other frames | | | | | |
| | , wrought framed and fixed in position: | | | | | |
| 20 | Sal Wood Providing and fixing glazed shutters for doors | cum | 48600.30 | 9.60 | 466562.88 | sl no-97(a) |
| 39 | and windows and clearstorey windows using | | | | | |
| | 4mm thick float glass panes including ISI marked | | | | | |
| | black enamelled M.S butt hinges with necessary | | | | | |
| | screws | | | | | |
| | Second class Teak Wood (35mm thick shutters) | sqm | 3290.80 | 64.00 | 210611.20 | sl no-106 |
| 40 | Providing and fixing of ISI marked flush door | | | | | |
| | shutters conforming to IS 2202 (Part-I) Non- | | | | | |
| | decorative type, core block board construction | | | | | |
| | with frame of 1st class hard wood and well | | | | | |
| | matched teak 3ply veenering with vertical grains | | | | | |
| | or cross bands and face veneers on both faces of | | | | | |
| | shutters | | | | | |
| | 35mm thick includig ISI marked stainless steel | | | | | |
| | <u> </u> | sqm | 3913.01 | 96.00 | 375648.96 | sl no-119(a) |
| | butt hinges with necessary screws. | |] | | | |

| SI no | ITEM | UNIT | RATE | QTY | AMOUNT | NIT REF NO |
|----------|---|------|--------|---------|-----------|---------------|
| 41 | Providing and fixing of M.S grills of required pattern in frames of windows etc. with M.S flats, | | | | | |
| | Square or round bar etc all complete Fixed to openings / wooden frames with rawl plugs screw etc | Kg | 80.86 | 1810.00 | 146356.60 | sl no-134 |
| 42 | Providing 40x5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diameter | | | | | |
| | bolts nuts and wooden plugs and embedding in | | 78.15 | 456.00 | 35636.40 | sl no-136 |
| 43 | cement concrete block 30x10x15 cm 1:3:6 mix (1 cement : 3 sand: 6 coarse aggregate) Providing and fixing factory made UPVC door | | | | | |
| 43 | frame made of UPVC extruded, section having an overall dimension, as below (tolerence +/-1mm) with wall thickness 2.0 +/- 0.2mm. | | | | | |
| | Corners of the door frame to be jointed with galvanized brackets and stainless steel screws, jointed and mitred and plastic wilded. the hinge | | | | | |
| | side vericalof the frames reinforced by galvanised m.S tube of size 19x19mm and 1mm +/- 0.1 mm wall thick ness and 3 nos stainless steel hinges | | | | | |
| | fixed to the frame complete aas per manufacture specification and direction of Engineer in charge. | | | | | |
| | Extruded section Profile size 42x50mm | RM | 449.19 | 127.00 | 57047.13 | sl no-138 |

| SI no | ITEM | UNIT | RATE | QTY | AMOUNT | NIT REF NO |
|----------|---|-------|---------|--------|-----------|---------------|
| 44 | Providing and fixing to existing door frames | | | | | |
| | 25mm thick PVC flush door shutters upto 737 | | | | | |
| | mm width of colour and shade as approved by | | | | | |
| | Engineer in Charge made out of one piece multi | | | | | |
| | chamber extruded PVC section of the size of | | | | | |
| | 762x25mm or less as per requirement with an | | | | | |
| | average wall thickness of 1mm +/- 0.3mm . PVC | | | | | |
| | foam end cap of size 23x10mm are provided on | | | | | |
| | both vertical edges to ensure the overall thickness | | | | | |
| | of 25mm . An Ms tube having dimensions | | | | | |
| | 19x19mm is inserted along the hinges side of the | | | | | |
| | | | | | | |
| | door core of the door shutter should be filled | | | | | |
| | with high density polyurethenefoam. The top | | | | | |
| | and bottom edges of the shutter are covered with | | | | | |
| | an end cap of the size 25x11mm . door shutter | | | | | |
| | shall be reinforced with special polymeric | | | | | |
| | reinforcement as per manufacture specification | | | | | |
| | and drawing to take up necessary hardware and | | | | | |
| | fixtures . Stickers indicating the location of | | | | | |
| | hardware will be pasted at appropriate places | | | | | |
| 45 | Providing and fixing of IS 12817 marked stainless steel butt hinges with stainless steel | sqm | 2228.99 | 57.00 | 127052.43 | sl no-141 |
| | screw etc complete | 34 | 2220.77 | 57.00 | 127002.10 | 31110 111 |
| ` ′ | 100x58x1.90mm | Each | 28.54 | 570.00 | 16267.80 | sl no-157(b) |
| © | 75x47x1.70mm Providing and fixing bright finished brass tower | Each | 24.36 | 475.00 | 11571.00 | sl no-157(c) |
| 40 | bolt (barrel type) with necessary screws etc | | | | | |
| | complete: | | | | | |
| | 250x10mm | Each | 270.55 | 285.00 | 77106.75 | sl no-161(a) |
| ` ' | 150x10mm Providing and fixing of Bright finished brass | Each | 170.48 | 285.00 | 48586.80 | sl no-161(c) |
| 47 | Sliding door bolts with nut and screw etc | | | | | |
| | complete | | | | | |
| | 300x16mm | Each | 1033.63 | 75.00 | 77522.25 | sl no-162(a) |
| ` ' | 250x16mm | Each | 966.53 | 38.00 | 36728.14 | sl no-162(b) |
| 48 | Providing and fixing bright finished brass 100mm | | | | | |
| | mortice latch and lock with 6 levers and pair of | Each | 440.37 | 57.00 | 25101.09 | sl no-163 |
| | lever handles with necessary screws etc | Lacii | 440.37 | 37.00 | 23101.09 | 31110-103 |
| | complete: (best make of approved quality) | | | | | |
| 49 | Providing and finishing special quality bright | | | | | |
| | finished brass hanging type floor door stopper | Each | 149.27 | 100.00 | 14927.00 | sl no-167 |
| | with necessary screws etc complete | | | | | |

| 50 | | UNIT | RATE | QTY | AMOUNT | NIT REF NO |
|------|--|------|---------|--------|------------|---------------|
| | Providing and fixing bright finished CP brass | | | | | |
| | handles with scrows etc complete: | | | | | |
| | handles with screws etc complete: 125mm | Each | 222.73 | 150.00 | 33409.50 | sl no-173(a) |
| | 100mm | Each | 187.67 | 200.00 | 37534.00 | sl no-173(b) |
| 51 | Providing and fixing of aluminium tower | | | | | |
| | bolts ISI marked anodised (anodic coating | | | | | |
|] | not less than grade AC 10 as per IS :1868) | | | | | |
| 1 | transparent or dyed to required colour or | | | | | |
| | shades with necessary screw etc complete: | | | | | |
| | 150x10mm | Each | 97.19 | 76.00 | 7386.44 | sl no-177(d) |
| 52 | Providing and fixing aluminium handles ISI | | | | | |
| | marked anodised (anodic coating not less | | | | | |
| | than grade AC10 as per IS 1868) transparent | | | | | |
| | or dyed to required colour or shade with | | | | | |
|] | necessary screw etc. complete: | | | | | |
| | 100mm | Each | 78.60 | 76.00 | 5973.60 | sl no-179(b) |
| 53 | Providing and fixing bright finished CP brass | | | | | |
| | casement stays (straight peg type) with necessary | | | | | |
| | screws etc. complete | | | | | |
| | 250mm Providing and fixing Stainless steel sliding door | Each | 85.48 | 200.00 | 17096.00 | sl no-175(b) |
| | | | | | | |
| | bolts ISI marked (of approved make | | | | | |
| | jindal/equivalent) with nuts and screw etc . | | | | | |
| | Complete: as per direction of Enginner in | | | | | |
| | Charge. 300x16mm | Each | 306.57 | 100.00 | 30657.00 | sl no-185(a) |
| | | | | TOTAL | 2197273.83 | () |
| - | SECTION-VII | | | ī | | _ |
| | STEEL WORK Providing and fixing 1mm thick M.S sheet door | | | | | |
| 55]. | Providing and fixing finin thick ivi.5 sheet door | | | | | |
| | with frame of 40x40x6mm angle iron and 3mm | | | | | |
| | M.S gusset paltes at the junctions and corners, all | | | | | |
|] | necessary fittings complete, including applying a | | | | | |
| | priming coat of approved steel primer. | | | | | |
| | Using M.S flats 30x6 mm for diagonal braces | sqm | 1950.35 | 57.00 | 111169.95 | sl no-191 |

| SI no | ITEM | UNIT | RATE | QTY | AMOUNT | NIT REF |
|----------|---|------|---------|--------|-----------|---|
| 56 | Providing and fixing pressed steel door frames | | | | | |
| | conforming to IS 4351 manufactured from | | | | | |
| | commercial mild steel sheet of 1.25mm thickness | | | | | |
| | including hinges, jambs, lock jamb, bead and if | | | | | |
| | required angle threshold of mild steel angle | | | | | |
| | section of 50x25mm or base tie of 1.25mm | | | | | |
| | | | | | | |
| | pressed mild steel welded or rigidly fixed | | | | | |
| | together by mechanical means, adjustablelugs | | | | | |
| | with split end tail to each jamb including steel | | | | | |
| | butt hinges 2.5mm thick with mortar guards, lock | | | | | |
| | strike -plate and shock absorbers as specified and | | | | | |
| | applying a coat of approved steel primer after pre- | | | | | |
| | treatment of the surface as directed by Engineer | | | | | |
| | in charge: | | | | | |
| | Profile B | RM | 345.58 | 310.00 | 107129.80 | sl no-196(a) |
| 57 | Supplying and filling of non OZONE make stainless steel railing with specification ss 304 grade railing made of 38mm blaster and 38mm top rail of 1.6mm thickness with 3 mid rail of 120 D tube connected with CNC made modular connection with dash fasters center to center distance between each blaster shall be 1000mm | RM | 4595.00 | 109.00 | 500855.00 | Extra item majour project (faculty residence) item- 43@4595.00 per rm |
| | (metre rate3 item) | | | TOTAL | 719154.75 | periiii |
| | SECTION-VIII | | | IUIAL | /17134./3 | |
| | FLOORING WORK | | | | | |
| 58 | cement concrete flooring 1:2:4 (1 cement : 2 | | | | | |
| | sand: 4 coarse aggregate) finished with a floating | | | | | |
| | coat of neat cement including cement slurry, but | | | | | |
| | excluding the cost of nosing of steps etc. | | | | | |
| | complete | | | | | |
| | 40mm thick with 20mmm nominal size stone | | | | | |
| | aggregate | sqm | 237.98 | 570.00 | 135648.60 | sl no-215 |
| 59 | cement plaster skirting (Upto 30CM height) with cement mortar 1:3(1 cement : 3 Sand) finished with floating coat of neat cement. | | | | | |
| | 18mm thick | sqm | 189.16 | 95.00 | 17970.20 | sl no-216 |
| | | - 4 | | 1 | | 1 |

| SI no | ITEM | UNIT | RATE | QTY | AMOUNT | NIT REF NO |
|----------|---|------|--------|---------|------------|---------------|
| 60 | Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS 15622 (thickness to be specified by the manufacture of approved make in all colours shade except burgundy, bottole green, black of any size as approved by engineer in Charge in skirting, risers of steps and dados over 12mm thick bed of cement mortar 1:3 (1 cement: 3 sand) and jointing with grey cement slurry @3.3 kg per Sq.M including pointing in white cement mixed with pigment of matching shade complete | sqm | 735.92 | 1100.00 | 809512.00 | sl no-238 |
| 61 | Providing and laying rectified ceramic glazed floor tiles 300x300mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS 15622 of approved make in colours shade except white ivory grey fume red, brown laid on 20mm thick cement mortar 1:4 (1 cement : 4 sand) including pointing the joints with white cement and matching pigment etc complete. | sqm | 842.47 | 1330.00 | 1120485.10 | sl no-242 |
| | Providing and laying Vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS 15622 of approved make in all colours shade laid on 20mm thick cement mortar 1:4 (1 cement: 4 sand) including pointing the joints with white cement and matching pigment etc complete. | sqm | 938.20 | 465.00 | 436263.00 | sl no-243 |
| | Deduct for not using 20mm thick cement mortar 1:4 (1 cement : 4 sand) bedding in laying of floor tiles | sqm | 259.37 | 3110.00 | 806640.70 | sl no-247 |
| 64 | Fixing glazed /ceramic /vitrified floor tiles with cement based high polymer modified quick set tile adhesive (water based) conforming to IS 15477 using 5 kg Adhesive per Sq.M of tile area in average of 3mm thick ness | | 315.63 | 3170.00 | 1000547.10 | sl no-248 |

| SI no | ITEM | UNIT | RATE | QTY | AMOUNT | NIT REF NO |
|----------|---|------|---------|---------|------------|--|
| 65 | Providing and fixing 1st quality ceramic glazed wall tiles (Boarder tiles) conforming to IS 15622 (thickness to be specified by the manufacture of approved make in all colours shade with printed series of any size as approved by engineer in Charge in skirting, risers of steps and dados over 12mm thick bed of cement mortar 1:3 (1 cement: 3 sand) and jointing with grey cement slurry @3.3 kg per Sq.M including pointing in white cement mixed with pigment of matching shade complete | | 60.61 | 718.00 | 43517.98 | sl no-249 |
| | Providing & fixing 5mm thick glass mosic on walls of required shapes, colour and pattern over 10mm thick cement mortar 1:4 with rounded and smooth edge and surface fixed on cement mortar slurry mixed with pigment to match the shade of the tiles including cleaning etc directed. | sqm | 1291.00 | 465.00 | 600315.00 | Extra item majour project (faculty residence) item-5 page no- 13@1291.00 |
| 67 | Chequred precast cement concrete tiles 22mm thick DESIGNER TILE (ULTRA/DUROCON/EQUIVALENT) in foot path and courtyard jointed with neat cement slurry mixed with pigment to match the shade of the tiles including rubbing and polishing complete with precast tiles on 20mm thick bed of cement mortar 1:4 (1 cement: 4 sand) | | | | | |
| | Ordinary cement without any pigment | sqm | 605.21 | 2185.00 | 1322383.85 | sl no-250© |
| 68 | Marble stone flooring with 18mm thick marble stone (sample of marble shall be approved by the Engineer in Charge. Over 20mm (average) thick base of cement mortar 1:4 (1 cement : 4 sand) laid and joined with grey cement slurry including rubbing and polishing complete with : | | | | | |
| 69 | Raj nagar White marble Marble stone flooring with 18mm thick marble stone (sample of marble shall be approved by the Engineer in Charge. Over 20mm (average) thick base of cement mortar 1:4 (1 cement : 4 sand) laid and joined with grey cement slurry including rubbing and polishing complete with : | sqm | 1166.38 | 320.00 | 373241.60 | sl no-229 |
| | Udipur green marble | sqm | 1380.09 | 185.00 | 255316.65 | sl no-231 |
| | | | | TOTAL | 6921841.78 | |
| <u> </u> | SECTION-IX FINISHING WORK | | | Π | | |
| 70 | FINISHING WORK 15mm cement plaster of mix 1:6 (1 cement: 6 Sand)over rough side of half brickwork | sqm | 84.69 | 4870.00 | 412440.30 | sl no-280 |
| 71 | 20mm cement plaster of mix 1:6 (1 cement: 6 Sand) | sqm | 102.34 | 4870.00 | 498395.80 | sl no-282 |

| SI | ITEM | UNIT | RATE | QTY | AMOUNT | NIT REF |
|----|---|------|--------|----------|------------|--------------|
| no | | | | ~ | | NO |
| 72 | Neat cement Punning | sqm | 25.04 | 380.00 | 9515.20 | sl no-290 |
| 73 | Providing and finishing wall surface with acrylic | | | | | |
| | wall care putty (water based) of approved make | | | | | |
| | (Birla or Equivalent) and finished smooth and | | 105.50 | 2500.00 | 1005005.00 | |
| | even surface to receive painting including cost of | sqm | 105.79 | 9500.00 | 1005005.00 | sl no-294 |
| | scaffolding staging charges with all cost of | | | | | |
| | materials taxes labour T&P etc complete | | | | | |
| 74 | White washing with KATNI lime to give an even shade | | | | | |
| | New work (Three or more coat | sqm | 10.01 | 2150.00 | 21521.50 | sl no-299(a) |
| 75 | Distempering with 1st quality acrylic distemper | | | | | |
| | (readymade) of approved manufacture and of | | | | | |
| | required shade and colour complete, as per | | | | | |
| | manufacturer's specification. | | | | | |
| | New Work(Two or more coats) | sqm | 32.73 | 9500.00 | 310935.00 | sl no-303 |
| 76 | Coal taring two coats on new work using | | | | | |
| | 0.16 and 0.12 litre tar per Sq.M in the first | | 20.00 | 40.00 | 1 420 04 | |
| | coat and secon coat respectively | sqm | 29.98 | 48.00 | 1439.04 | sl no-314 |
| 77 | Applying one coat of cement primer of | | | | | |
| | approved brand and manufactureron wall | | | | | |
| | Cement primer | sqm | 26.91 | 15200.00 | 409032.00 | sl no-304 |
| 78 | Painting with synthetic enamel paint of approved | | | | | |
| | | | | | | |
| | brand and manufacture to give an even shade: Two or more coats on new work | | | | | |
| | 2 110 02 110 02 00 00 02 110 11 110 11 | sqm | 48.96 | 1140.00 | 55814.40 | sl no-316 |
| 79 | Providing and plastering 6mm thick cement | | | | | |
| | plaster in CM 1:4 with admixture of plastocrete | | | | | |
| | or equivalent (@100ml/bag of cement) and with | | | | | |
| | painting of two coats of SIKA LATEX or | | | | | |
| | equivalent (150ml/Sq.M) over the plastered | sqm | 165.01 | 2060.00 | 339920.60 | sl no-326 |
| | surface before plastering including racking out | | | | | |
| | the ceiling and painting two coats of ARMATEX | | | | | |
| | or Equivalent over corroded steel and complete | | | | | |
| | as per direction of Engineer in Charge. | | | | | |

| SI | ITEM | UNIT | RATE | QTY | AMOUNT | NIT REF |
|----|---|------------------------------|--------|----------|------------|------------------------------------|
| no | 112101 | Oitii | MAIL | ۷., | AMOUNT | NO |
| | 15 mm thick cement plaster in CM 1:4 with chemical admixture for water proofing such as PLASTOCRETE PLUS/CICOCRETE/Equivalent as per manufacturers manual for out side plastering including racking out and cleaning the wall surface with wire brush and painting of SIKA LATEX two coats(@ 150ml/Sq.M) before plastering complete as per direction of Engineer In charge. Including all material and labour for racking and plastering. | sqm | 148.89 | 5260.00 | 783161.40 | sl no-327 |
| 81 | Providing & laying Dura COAT TOP coated with trashied ultratech texture wall finished over existing cement plaster | | 386.00 | 5700.00 | 2200200.00 | Extra item majour project (faculty |
| | | | | TOTAL | 6047380.24 | |
| | SECTION-X | I. | | 1 | | 1 |
| | REPAIR TO BUILDING | | | | | |
| 82 | Repairs to plaster of thickness 12mm to 20mm in patches of area 2.5Sq.Mand under including cutting the patches in proper shape racking out joints and repairing and plastering the surface of the wall s complete including disposal of rubbish to the dumping ground with in 50mtr lead | | | | | |
| | Cement Mortar 1:6 | sqm | 110.73 | 285.00 | 31558.05 | sl no-328(b) |
| 83 | Renewing glass panes with Putty and nails wherever necessary: Float glass panes of thickness 4mm | | 690.57 | 58.00 | 40053.06 | sl no-332(b) |
| | Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping sand papering and prepairing the surface smooth including necessary repairs to scratches etc. complete Painting with synthetic enamel paint of approved | sqm | 4.57 | 15460.00 | 70652.20 | sl no-341 |
| 85 | brand and manufacture to give an even shade: | | 21.54 | 4750.00 | 140017.00 | 244 |
| 06 | One or more coat over old Work Re-Lettering with black japan paint of approved | sqm | 31.54 | 4750.00 | 149815.00 | sl no-344 |
| 86 | brand and manufacture | 1Letter of 1 Cm height | 0.91 | 208.00 | 189.28 | sl no-352© |

| SI no | ITEM | UNIT | RATE | QTY | AMOUNT | NIT REF NO |
|----------|---|------|--------|--------|-----------|---------------|
| 87 | Taking out the doors and window shutters and refixing them including screws as may be required. Including Cost of repairing of old door shutter of any size as per requirement along with refixing old fittings such as tower bolt, sliding door bolt, handles, (new fittings to be paid separately) with new hinges including painting the new portion with synthetic enamel paint of required shade with one coat of wood primer(cost of wood to be paid separately) including fixing in existing opening complete (Any size of any thickness)as per direction of Engineer in Charge. | sqm | 351.06 | 380.00 | 133402.80 | sl no-602 |
| 88 | Easing ,oiling and adjusting the door & window including the cost of screws etc complete as per direction of Engineer - in charge. | each | 113.30 | 190.00 | 21527.00 | sl no-603 |
| | Labour for dismantling, fitting and refixing of M.S gates and Grills including cutting into size and welding all complete as per approved design including cost of all materials complete as per direction of Engineer in charge (Cost of materials and such as M.S flats and other consumable items welding machine etc are to be supplied by the contractor, only power will be supplied free of cost within distance of 100.00mtr) | | 262.76 | 285.00 | 74886.60 | sl no-605 |
| | Repairing wherever required of bibcock pillar cock, stopcock, pvc waste pipe low /high level cistern and other fittings of C.P. brass etc complete including providing and fixing as per requirement | each | 29.33 | 114.00 | 3343.62 | sl no-606 |
| | Cleaning of porcelain WC pan wash basin, and sink with porcelain clean acid with making complete germ free up to get up the white dazzling colour including using M-Seal as and where required to make the joints leakage proof as per direction of the Engineer in charge. | each | 87.34 | 38.00 | 3318.92 | sl no-611 |
| | Providing and laying screed concrete on the top of the roof in 1:2:4 (1 cement :2 sand : 4 stone chips 10mm down gauge) with water proofing admixture Conforming to IS:2645, and crack resistance fibre like RECRON 3S or equivalent with slope of 1 in 100 and necessary hollering as per direction of Engineer- in-charge. (minimum thickness of 75mm) | sqm | 315.88 | 570.00 | 180051.60 | sl no-613 |
| 93 | Cleaning the roof top surface, terrace, portico etc by scraping the fungus/algae if any and cleaning the garbages at all height by brooming the top surface before monsoon and disposal the same to the dumping ground as directed by Engineer in Charge | sqm | 25.96 | 570.00 | 14797.20 | sl no-626 |

| SI no | ITEM | UNIT | RATE | QTY | AMOUNT | NIT REF NO |
|----------|---|------|---------|--------|-----------|---------------|
| 94 | Cleaning silt, sapling, dust etc its disposal to outside compound and washing O.H tanks with lime water and disinfecting with bleaching powder using 150 gms of bleaching powder in 1000to 1500 lits. tank keeping it in the tank at least for three hours before flushing and cleaning (at the interval of 1 year)(One tank shall be taken as one job). | each | 162.03 | 19.00 | 3078.57 | sl no-619 |
| | Conveyance of Materials such as stone metal refuse, garbage, rubbish etc including labour for loading and unloading. Beyond initial lead. | | | | | |
| (a) | truck load Upto 1km | Cum | 41.00 | 30.00 | 1230.00 | sl no-644(e) |
| (b) | truck load upto2 km | Cum | 53.00 | 60.00 | 3180.00 | sl no-644(f) |
| | | | | TOTAL | 731083.90 | |
| | SECTION-XI | | | • | | |
| | ALUMINIUM WORK | | | | | |
| 96 | Providing and fixing aluminium work Fully glazed with 4.0mm thick glass pane for Sliding windows ventilators (Subframe) (anodised transparent or dyed to required shade according to IS 1868 minimum anodic coating of grade AC15) subframe for windows and ventilators with extruded builtup standard tubular sections of approved make conforming to IS 733 and IS 1285 fixed with rawl plugs and stainless steel screws etc.with rawl plug and screw or with fixing clips or with expansion holdfasteners including necessary filling up of gaps at jinction at top and bottom and sides with required PVC /neoprene fillet etc aluminium sections shall be smooth rust free straight mitred and jointed mechanically wherever required including cleat angles, Aluminium snap beading for glazing /panelling CP brass /stainless steel screws all complete as per architectural drawings and direction of Engineer in Charge (all fittings such as hinges handle and beading etc all are included and measured in Sq.M) | sqm | 3746.24 | 180.00 | 674323.20 | sl no-594 |

| SI no | ITEM | UNIT | RATE | QTY | AMOUNT | NIT REF NO |
|----------|---|------|---------|--------|-----------|---------------|
| | Providing and fixing aluminium work Fully glazed with 8mm thick glass pane for doors and windows ventilators and partitions with extruded builtup standard tubular sections/appropriate Z sections and other sections of approved make conforming to IS 733 and IS 1285 fixed with rawl plug and screw or with fixing clips or with expansion holdfasteners including necessary filling up of gaps at jinction at top and bottom and sides with required PVC /neoprene fillet etc aluminium sections shall be smooth rust free straight mitred and jointed mechanically wherever required including cleat angles, Aluminium snap beading for glazing /panelling CP brass /stainless steel screws all complete as per architectural drawings and direction of Engineer in Charge (all fittings such as hinges handle and beading etc all are | | | | | |
| | included and measured in Sq.M) For Fixed portion only | sqm | 4974.16 | 60.00 | 298449.6 | sl no-592 |
| | Providing and fixing aluminium work Fully glazed with 5.0 mm thick glass pane for Sliding windows ventilators (Subframe) (anodised transparent or dyed to required shade according to IS 1868 minimum anodic coating of grade AC15) subframe for windows and ventilators with extruded builtup standard tubular sections of approved make conforming to IS 733 and IS 1285 fixed with rawl plugs and stainless steel screws etc.with rawl plug and screw or with fixing clips or with expansion holdfasteners including necessary filling up of gaps at jinction at top and bottom and sides with required PVC /neoprene fillet etc aluminium sections shall be smooth rust free straight mitred and jointed mechanically wherever required including cleat angles, Aluminium snap beading for glazing /panelling CP brass /stainless steel screws all complete as per architectural drawings and direction of Engineer in Charge (all fittings such as hinges handle and beading etc all are included and measured in Sq.M) Providing and fixing panelled or panelled | sqm | 3817.68 | 215.00 | 820801.20 | sl no-595 |
| 99 | Providing and fixig panelled or pannelled and glazed shutters for doors and windows and clearstorey windows including ISI marked black enamelled M.S butt hinges with necessary screws excluding glass panelling which will be paid separately | | | | | |

| SI no | ITEM | UNIT | RATE | QTY | AMOUNT | NIT REF NO |
|----------|--|------|----------|-------|------------|---------------|
| | Second class Teak Wood (30mm thick shutters) | sqm | 2328.34 | 41.00 | 95461.94 | sl no-100 |
| | | | | TOTAL | 1889035.94 | |
| | SANITARY INSTALLATION/PLUMBING | G/WA | TER SUPP | LY | | I. |
| | SECTION-1 | | | | | |
| | SANITARY INSTALLATION | | | | | |
| 100 | Providing and fixing water closet squating pan (Indian type W.C.Pan) with 100mm sand cast iron Por S trap, 10litr low level white P.V.C flushing cistern with manually controlled device (handle lever) conforming to IS 7231 with all fittings and fixtures complete including cutting and making good the walls and floors where ever required: | | | | | |
| | White Vitreous china orissa pattern W.C pan | | | 40.00 | | |
| | of size 580x440mm with integral type foot | each | 3469.19 | 19.00 | 65914.61 | sl no-401 |
| 101 | Providing and fixing white vitreous china pedestral type water closet s(European typeW.C.Pan)with seat lid, 10litr low level white P.V.C flushing cistern with manually controlled device (handle lever) conforming to IS 7231 with all fittings and fixtures complete including cutting and making good the walls and floors where ever required: | | | | | |
| | W.C.Pan with ISI marked White solid plastic seatand lid | Each | 3701.49 | 19.00 | 70328.31 | sl no-402 |
| 102 | White vitreous china wash basin size | | | | | |
| | 630x450mm withsingle 15mm CP Brass | | | | | |
| | Providing and fixing of wash basin with C.I brackets, 15mm Cp brass pillar taps 32mm | Each | 2796.30 | 38.00 | 106259.40 | sl no-406(b) |
| 103 | Kitchen sink without drain board 610x510 mm | | | | | |
| | bowl depth 200mm Providing and fixing of Stainless steel AISI304 (18/8) kitchen sink as per IS 13983 with C.I brackets, CP brass chain with stainless steel plug, 40mm CP brass waste complete, including painting the fittings and brackets, cutting and making good the walls wherever required: | Each | 8679.90 | 19.00 | 164918.10 | sl no-409(c) |
| 104 | Providing and fixing single equal junction of required degree with access door insertion rubber washer 3mm thick bolts and nuts complete | | | | | |
| | Sand Cast Iron (S&S) as per IS -1729 | | | | | |
| (a) | 100x100x100x100mm dia | Each | 480.30 | 38.00 | 18251.40 | sl no-450(a) |
| (b) | 75x75x75x75mm dia | Each | 302.91 | 38.00 | 11510.58 | sl no-450(b) |
| 105 | Providing and fixing Terminal Guard | | | | | |
| | Centrifugal Cast iron asp per IS 3989 | | | | | |
| | 100mm dia | Each | 194.57 | 38.00 | 7393.66 | sl no-469(a) |

| SI no | ITEM | UNIT | RATE | QTY | AMOUNT | NIT REF NO |
|----------|---|----------|------------------|-----------------|-----------------------|------------------------------|
| | Providing and fixing 600x450mm bevelled edge mirror of superior glass (of approved quality) complete with 6mm thick hard board ground fixed to wooden cleats with CP brass screws and washers complete | Each | 1057.20 | 76.00 | 80347.20 | sl no-429 |
| 107 | Providing and fixing of 600x120x5mm glass self with edges round of supported on anodized aluminium angle frame with CP brass brackets and guard rail complete fixed with 40mm long screw, rawl plugs etc complete | Each | 668.34 | 76.00 | 50793.84 | sl no-430 |
| | Providing and fixing of CP towel rail complete with brackcket fixed to wooden cleats with CVp bras screw with concealed arrangement of approved make and brand and quality: 600mm x20mm dia CP Brass | Each | 516.81 | 58.00 | 29974.98 | sl no-433 |
| 109 | Providing and fixing CP bras Soap case of Approved make and quality | Each | 298.23 | 114.00 | 33998.22 | sl no-434 |
| | Providing and fixing of CP brass Towel ring Circular shape 200mm dia with a minimum distanc eof 37mm from wall face with concealed fitting arrangement of approved quality | Each | 313.93 | 58.00 | 18207.94 | sl no-435 |
| 111 | Providing and fixing Soil, waste and vent pipes | | | | | |
| (b) | (Centrifugally cast iron PIPE as per IS 3989 100mm dia 75mm dia Providing and fixing plain bend of required | RM RM | 677.74 599.80 | 95.00 190.00 | 64385.30 113962.00 | sl no-438(a) sl no-438(b) |
| | degree Centrifugal Cast Iron as per IS -3989 | | | | | |
| | 100mm dia | Each | 503.53 | 95.00 | 47835.35 | sl no-442(a) |
| (b) | 75mm dia | Each | 314.52 | 95.00 | 29879.40 | sl no-442(b) |
| 113 | Providing and fixing of PVC waste pipe for Sink or wash basin including PVC waste fittings complete: Semirigid pipe 32mm dia | Each | 255.86 | 60.00 | 15351.60 | sl no-426 |
| | Providing lead caulked joints to sand cast iron/ Centrifugally cast (Spun) iron pipes and fittings of diamter | | | | | |
| (a) | 100mm dia | Each | 318.66 | 95.00 | 30272.70 | sl no-475(a) |
| . , | 75mm dia | Each | 279.26 | 95.00 | 26529.70 | sl no-475(b) |
| | Supplying and fixing and fittins of PVC pipes of approved brand (Finolex/Supreme) complete with fittings including cutting and making good the walls etc. as per direction of Engineerin Charge. | DM. | 202.61 | 115.00 | 24900 15 | al no 470(a) |
| 116 | 110mm dia Pipes Supplying and fixing and fittins of PVC door bend of approved brand (Finolex/Supreme) complete with fittings including cutting and making good the walls etc. as per direction of | RM | 302.61 | 115.00 | 34800.15 | sl no-478(a) |
| | 110mm dia Pipes | Each | 222.66 | 50.00 | 11133.00 | sl no-479(a) |

| SI no | ITEM | UNIT | RATE | QTY | AMOUNT | NIT REF NO |
|----------|--|------|--------|--------|------------|-----------------------|
| 117 | Supplying and fixing and fittins of PVC vent cowl of approved brand (Finolex/Supreme)complete with fittings including cutting and making good the walls etc. as per direction of Engineerin Charge. | | | | | |
| | 110mm dia Pipes | Each | 66.10 | 50.00 | 3305.00 | sl no-484(a) |
| | | | | TOTAL | 1035352.44 | |
| | SECTION-II | | | | | |
| | WATER SUPPLY | | | | | |
| 118 | Providing and fixing of chlorinated polyvinyl chloride (CPVC)pipes, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes fittings with one CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge(Concealed work includig cutting chases | | | | | |
| | and making good the walls etc.) | | | | | |
| (a) | 15mm nominal bore | RM | 239.19 | 85.00 | 20331.15 | sl no-487(a) |
| (b) | 20mm nominal bore | RM | 276.80 | 85.00 | 23528.00 | sl no-487(b) |
| © | 25mm nominal bore | RM | 356.68 | 38.00 | 13553.84 | sl no-487(c) |
| 119 | Providing & fixing unplasticized P.V.C. connection pipe with PTMT Nuts collar and | | | | | |
| | 15mm nominal bore with 30cm length | each | 70.15 | 39.00 | 2735.85 | DSR sl no- 18.74.1 |
| 120 | 15mm nominal bore with 45cm length | each | 81.47 | 39.00 | 3177.33 | DSR sl no- 18.74.2 |
| | Providing and fixing of chlorinated polyvinyl chloride (CPVC)pipes , having thermal stability | | | | | |
| (a) | 20mm nominal bore | RM | 168.04 | 55.00 | 9242.20 | sl no-488(b) |
| (b) | 25mm nominal bore | RM | 230.09 | 55.00 | 12654.95 | sl no-488(c) |
| | Providing and fixing of G.I pipes complete with G.I fittings and clamps including cutting and making good the walls etc. Internal work (Exposed on wall) | | | | | |
| (a) | 15mm nominal bore | RM | 225.41 | 95.00 | 21413.95 | sl no-489(a) |
| (b) | 20mm nominal bore | RM | 259.44 | 95.00 | 24646.80 | sl no-489(b) |
| | 25mm nominal bore | RM | 350.98 | 190.00 | 66686.20 | sl no-489(c) |
| 123 | Concealed pipe including painting with anti corosive bitumastic paint, cutting chases and making good the wall | | | | | |
| (a) | 15mm nominal bore | RM | 283.40 | 95.00 | 26923.00 | sl no-490(a) |

| SI | ITEM | UNIT | RATE | QTY | AMOUNT | NIT REF |
|-----|--|------|---------|--------|-----------|-------------------------|
| no | I I EIVI | ONT | NATE | Q I I | AIVIOONI | NO |
| (b) | 20mm nominal bore | RM | 315.03 | 95.00 | 29927.85 | sl no-490(b) |
| © | 25mm nominal bore | RM | 404.77 | 190.00 | 76906.30 | sl no-490(c) |
| 124 | Providing and fixing of CP Brass Fittings | | | | | |
| | conforming to IS 8931as per approved quality | | | | | |
| | and direction of Engineer in Charge. | | | | | |
| | 15mm dia Bib cock | Each | 663.88 | 57.00 | 37841.16 | sl no-501 |
| | 15mm dia Stop cock | Each | 663.88 | 57.00 | 37841.16 | sl no-502 |
| | 15mm dia long body bib cock | Each | 771.13 | 19.00 | 14651.47 | sl no-504 |
| | 15mm dia short body bibcock | Each | 687.11 | 76.00 | 52220.36 | sl no-506 |
| | 15mm dia Swing cock | Each | 1064.22 | 38.00 | 40440.36 | sl no-507 |
| | 15mm dia wall mixer with L bend | Each | 3271.07 | 38.00 | 124300.66 | sl no-509 |
| | 15mm dia angle cock | Each | 733.27 | 38.00 | 27864.26 | sl no-510 |
| | 15mm dia conceal stop cock | Each | 727.46 | 95.00 | 69108.70 | sl no-511 |
| | 15mm to 20mm dia CP brass shower rose with | | | | | |
| | Arm (150mm dia) | Each | 1054.71 | 38.00 | 40078.98 | sl no-513 |
| | CP connector pipe for Geysers 60Cm length with CP brass Unions | Each | 364.15 | 51.00 | 18571.65 | sl no-515 |
| 125 | Providing and fixing PTMT grating of approved | | | | | |
| | quality and colour. | | | | | |
| | 100 mm nominal dia | Each | 61.14 | 95.00 | 5808.30 | DSR sl no- 18.58.1.1 |
| 126 | Constructing masonry chamber 30x30x50cm, inside with 75class designation brick work in cement mortar 1:4 (1 cement : 4 sand) for sluice valve and RCC top slab of 1:2:4 (1 cement : 2 sand: 4 coarse aggregate) necessary excavation foundation concrete 1:5:10 (1 cement : 5 sand: 10 stone aggregate) and inside plastering with cement mortar 1:3 (1 cement: 3 sand) 12mm thick finished with a floating coat of neat cement complete as per standard design: With FPS Bricks | Each | 771.52 | 38.00 | 29317.76 | sl no-545 |
| | | | | TOTAL | 829772.24 | |
| | SECTION-III | | | | | 1 |
| | DRAINAGE | | | | | |
| 127 | Providing and fixing square mouth S.W gully | | | | | 1 |
| | trap grade A complete with C.I grating brick | | | | | |
| | masonry chamber with water tight C.I cover with | | | | | |
| | frame of 300x300 mm size (Inside) the weight of | | | | | |
| | cover to be not less than 4.50kg and frame to be | | | | | |
| | not less than 2.70kg as per standard design: | | | | | 1 |
| | 180x150mm size P type with F.P.S bricks class designation 75 | each | 1873.90 | 60.00 | 112434.00 | sl no-564 |

| SI no | ITEM | UNIT | RATE | QTY | AMOUNT | NIT REF NO |
|----------|--|-------|-------------|-------|-------------|---------------|
| 128 | | | | | | |
| | Constructing brick masonry man hole in cement mortar 1:4 (1 cement: 4 sand) R.C.C. top slab with 1:2:4 (1cement: 2 sand: 4 coarse aggregate), Foundation concrete 1:4:8 (1 cement: 4 sand: 8 coarse aggreagte) inside plastering 12mm thick with cement mortar 1:3 (1 cement: 3 sand) finished with floating coat of neat cement punning and making channel in cement concrete 1:2:4 (1 cement: 2 sand: 4 coarse aggregate) finished with floating coat of of neat cement punning complete as per standard design: | | | | | |
| | Inside size of 90x80cm and deep 45Cm | each | 4562.49 | 19.00 | 86687.31 | sl no-567 |
| | including R.C.C Precast 50mm thick cover | eacii | 4502.49 | 19.00 | 00007.31 | SI 11U-507 |
| | | | | TOTAL | 199121.31 | |
| | | | GRAND TOTAL | | 24921718.29 | |
| | | | SAY | | 24921719.00 | |

LIST OF APPROVED MANUFACTURERS / BRANDS FOR CIVIL WORKS

| Sl. No. | Materials | Manufacturers |
|---------|---|---|
| 1 | Grey Cement (43 or 53 Grade) | Konark (OCL), Ultratech |
| | White Cement Putty | Birla White |
| | | Birla White Putty |
| 2 | Steel (TMT) | TATA, SAIL |
| 3 | Clay Bricks | Reputed brand approved by project Engineer |
| | | and Architect. |
| 4 | Pressed Steel frames for Doors. | As approved by Architect/Consultant & |
| | | Engineer-in-Charge. |
| 5 | Flush Door Shutters | Green Ply/Century/Archid Ply/Duro/Bhutan |
| | | Board/ Hindustan Board/equivalent. |
| 6 | Particle Boards/Block Boards (Ward robe | Century Ply woods Archidply / Kitply / Duro, |
| | shutters and kitchen cabinets on with | Bhutan Board, Novapan, Equivalent. |
| | laminates) | |
| 7 | Glass (Plain/Pin Headed) | Modi Float not less than Grade as per IS 1868 |
| 8 | Aluminium Hardware/fittings | Argent/Classic (ISI marked anodised coating |
| | | not less than grade AC as per IS 1868). |
| 9 | Brass Mortice Lock & Latches | Godrej or equivalent. |
| 10 | Latches with Internal locks | Godrej or equivalent. |
| 11 | Floor Type Hydraulic door closer (Floor | Everite / Hyper. |
| | spring) | |
| 12 | Aluminium door, window and ventilator | Jindal / Indal / Hindalco. |
| | sections. | |
| 13 | Water proofing materials / compound | CICO - I / Sikaflex / Sikalatex / Dr. FIXIT / |
| | | Plastocrete Plus / F Airmate. |
| 14 | Ceramic Glazed Tiles | Kajaria / NITCO / equivalent |
| 15 | Ceramic Tiles (Non-Skid) | Kajaria / NITCO / equivalent |
| 16 | Cement Concrete (Chequred) Tiles | NITCO / Bharat / URO. |
| 17 | Synthetic Enamel Paint | Burger / Asian or equivalent |
| 18 | Oil Bound Distemper | Burger / Asian or equivalent |
| 19 | Plastic Paint | Burger / Asian |
| 20 | Glass Mosaic Tiles | Italia or equivalent |
| 21 | Vitrified Tiles | NITCO / Kajaria / or equivalent |
| 22 | Interlocking Grass Pavers | NITCO |
| 23 | Any other item | On Approval of Architect / Consultant or |
| | | Engineer-in-Charge |

Note: In case of non-availability of any other item listed above architect/Consultant will approve the make / brand to be used in the work.

LIST OF APPROVED MANUFACTURERS/BRANDS FOR PLUMBING WORKS

| SI. No. | Materials | Manufacturers |
|---------|--|---|
| 1 | VITREOUS CHINA SANITARY WARES | PARRYWARE / CERA / HIND WARE |
| 2 | C P FITTINGS / MIXTURES | MARC / PLUMBER |
| | · | , |
| 3 | URINAL / WC FLUSHING SYSTEM | MARC / PLUMBER |
| 4 | FIRE CLAY SINK | SANFIRE / JOHNSON PEDDER / PARRYWARE / HIND WARE |
| 5 | STAINLESS STEEL SINK | NIRALI / PARRY / FRANKE / SALEM |
| 6 | BALL VALVES / NRV / STRAINER / PRV | CIM / LEADER / AUDCO / ZOLOTO |
| 7 | GI PIPES - IS: 1239 | JINDAL (HISSAR) / PRAKASH - SURYA (TATA (MEDIUM) / BANSAL OR EQUIVALENT |
| 8 | GI FITTINGS – IS : 1239 | UNCO / R BRAND / UNIK / ZOLOTO / TATA /BANSAL OR EQUIVALENT |
| 9 | CI PIPES (CLASS LA / A/ B) - IS, 1536 | ELECTROSTEEL / KESHORAM / HINDUSTAN / NECO |
| 10 | DI PIPES – IS - 8329 | ELECTROSTEEL / JINDAL OR EQUIVALENT |
| 11 | CI PIPES (CENTRIFUGAL CAST) - IS - 3989 | NECO OR EQUIVALENT |
| 12 | SW PIPES / GULLY TRAPS - IS - 651 | BURN / PERFECT OR ISI MARKED OR EQUIVALENT |
| 13 | PWC PLASTIC SEAT COVERS | PARRYWARE / CERA / HINDUSTAN / COMMANDER |
| 14 | OVER HEAD TANKS | SINTEX OR EQUIVALENT |
| 15 | SS FLOOR GRATING / CLAMPS | CHILLY OR EQUIVALENT |
| 16 | SS LIQUID SOAP DISPENSOR / HAND DRIER | IMPULSE / TOSHI / UTEC OR EQUIVALENT |
| 17 | SI UICE / BUTTERFLY / NON RETURN VALVES | KIRLOSKER / LEADER / CIM / ZOLOTO) / VENUS/IVC |
| 18 | RCC PIPES – IS - 458 | INDIAN HUME PIPE / JAIN SPUN / DAYA SPUN OR EQUIVALENT |
| 19 | SUBMERSIBLE PUMP FOR WATER SUPPLY | KSB / / GRUNDFOSS / CROMPTON GREAVES |
| 20 | MONOBLOCK PUMP FOR WATER SUPPLY | KIRLOSKER / CROMPTON / MATHER + PLATT |
| 21 | UPVC PIPES (S/W/R) | PRINCE / SUPREME / FINOLEX |
| 22 | GUNMETAL VALVES (FULLWAY. CHECK & GLOBE) | LEADER / ZOLOTO (WITH ISI MARK) / SANT |
| 23 | MIRRORS | FLOAT GLASS (MODIGUARD/AGI/EQUIVALENT |
| 24 | CI MANHOLE COVER | NECO/SILC OR EQUIVALENT |
| 25 | CHEMICAL DOSER | ASIA LMI / PROMINENT / ION EXCHANGE |
| 26 | PVC FITTINGS | PRAYAG OR EQUIVALENT |

| 27 | PRESSURE GAUGE | H GURU |
|----|---------------------------|--|
| 28 | LEVEL INDICATOR | RM OR EQUIVALENT APPROVED MAKE |
| 29 | AIR RELIEF VALVES | RB / ZOLOTO |
| 30 | WATER METER | DASMESH / CAPSSTAIN |
| 31 | PVC ENCAPSULATED FOOTREST | KKM OR EQUIVALENT APPROVED MAKE |
| 32 | CI BUTTERFLY VALVE | KEYSTONE / KIRLOSKAR / CASTLE |
| 33 | RCC PIPES | INDIA HUME PIPES / JAIN SPUN / OR ISI MARKED |
| 34 | ANY OTHER ITEMS | ON APPROVAL OF ARCHITECT / CONSULTANT OR ENGINEER-IN-CHARGE |

Note: 1. The choice of the final makes shall be made by the owner / consultant.

2. The samples or Cat. No. of all type of sanitary fixtures, CP, fitting & pumps should be approved before execution.