

REVISED SCHEDULE

NAME OF WORK: 'ADDITION & ALTERNATION OF SCHOOL BUILDING AT NIT,ROURKELA.'

| SL NO | DESCRIPTION OF ITEM | UNIT | QTY | RATE | AMOUNT |
|-------|--|------|--------|--------|----------|
| 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 excavated earth lead upto 50m and lift upto 1.5m disposed earth to be levelled and neatly dressed (All kinds of Soil) | Cum | 220.00 | 114.68 | 25229.60 |
| 2 | Earthwork in excavation by mechanical means (Hydraulic excavator)/manual means in foundation trenches 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 bottoms including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50Mtr. (Ordinary Rock) | Cum | 405.00 | 195.66 | 79242.30 |
| 3 | Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20Cm in depth, consolidating each deposited layer by ramming and watering, lead upto 50M and lift upto 1.5M | Cum | 405.00 | 50.77 | 20561.85 |
| 4 | Supplying and filling in plinth with river sand under floors including watering ramming consolidating and dressing complete. | Cum | 296.00 | 273.14 | 80849.44 |
| 5 | Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 Cm deep and disposal of rubbish , Lead upto 50M and lift upto 1.5M | Sq.M | 500.00 | 5.64 | 2821.00 |
| 6 | Clearing jungle including uprooting of rank vegetation , Grass brush wood ,trees and sapling of girth upto 30Cm measured at a height of 1 Mtr above the ground level and removal of rubbish upto a distance of 50M outside the periphery of the area cleared | sqm | 700.00 | 2.91 | 2037.00 |
| 7(a) | Treatment of soil under existing floor using chemical emulsion @one liter 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 | 355.00 | 185.76 | 65944.80 |
| (b) | Along the external wall below concrete or masonry apron using chemical emulsion @2.25liter per linear metre including drilling and plugging holes etc. | | | | |
| | Chloropyriphos /Lindane emulsifiable concentrate of 20% with 1% concentration | RM | 265.00 | 37.22 | 9863.30 |
| 8 | Demolishing brickwork manually/ by mechanical means including stacking of servicable materials and disposal of unservicable materials within 50mtr lead as per direction of Engineer in Charge | Cum | 30.00 | 342.07 | 10262.10 |

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|-------|--|------|----------|---------|------------|
| 9 | Dismantling R.C.C. work, including stacking of steel bars and disposal of unservicable amterials within 50mtr lead as per direction of Engineer incharge. | Cum | 20.00 | 591.38 | 11827.60 |
| 10 | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering. Cement concrete in 1:3:6 (1 Cement : 3 sand:6 Coarse Aggregate 40mm Down) | Cum | 120.00 | 3394.87 | 407384.40 |
| 11 | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering. Cement concrete in 1:2:4 (1 Cement : 2 sand:4 Coarse Aggregate 20mm Down) | Cum | 103.00 | 4065.29 | 418724.87 |
| 12 | Providing and laying in position Reinforced cement concrete of specified grade excluding the cost of centering and shuttering. Cement concrete in 1:1½:3 (1 Cement : 1½ sand:3 Coarse Aggregate 20mm Down) upto plinth level. | Cum | 88.00 | 4622.35 | 406766.80 |
| (a) | Providing and laying Reinforced cement concrete in retaining walls return walls (any thickness) including attached pilasters Columns Piers Abutment Pillars 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.above plinth level | | | | |
| | CC 1:1½:3 (1 Cement:1½ Coarse Sand:3 Coarse Aggregate 20mm Down) | Cum | 121.65 | 5019.81 | 610659.89 |
| 13 | Centering and shuttering including struting propping etc and removal of forms for: | | | | |
| (a) | Foundations footing bases of column etc for mass concrete | Sq.M | 80.00 | 110.23 | 8818.40 |
| (b) | Suspended floors roofs landings balconies and access platform | Sq.M | 525.00 | 161.74 | 84913.50 |
| © | Lintels beams plinth beams girders bressumers and cantilevers. | Sq.M | 325.00 | 145.75 | 47368.75 |
| (d) | Columns Pillars piers Abutment Posts and strutts | Sq.M | 150.00 | 213.01 | 31951.50 |
| (e) | Weather shades, Chajja, Corbels etc including edges | Sq.M | 170.00 | 333.64 | 56718.80 |
| 14 | Providing and placing reinforcement for R.C.C. work including straightining cutting bending placing in position and binding allcomplete.(SAIL or TATA) | | | | |
| | Thermo Mechanically Treated Bars | Kg | 24250.00 | 64.01 | 1552242.50 |
| 15 | Providing and laying damp proof course 40mm thick with cement concrete 1:2:4 (1 cement:2 sand:4 coarse aggregate 12.5mm nominal size) | Sq.M | 33.47 | 184.14 | 6163.17 |
| 16 | Brick work with F.P.S bricks of class designation 75 in foundation and plinth in cement mortar 1:6 (1cement: 6 Sand) | Cum | 100.00 | 2963.50 | 296350.00 |
| 17 | Brick work with F.P.S bricks of class designation 75 in Super structure above plinth level upto V floor level in all shapes and size in Cement mortar 1:6 (1cement: 6 sand) | Cum | 300.00 | 3318.10 | 995430.00 |
| 18 | Half brick masonry with FPS bricks of class designation 75 in foundation and plinthin Cement mortar 1:4 (1 cement: 4 sand) | Sq.M | 200.00 | 371.98 | 74396.00 |
| 19 | 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 | 2991.00 | 80.86 | 241852.26 |

| SL NO | DESCRIPTION OF ITEM | UNIT | QTY | RATE | AMOUNT |
|-------|--|------|---------|---------|-----------|
| 20 | 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 butt hinges with necessary screws. | Sq.M | 70.00 | 3913.01 | 273910.70 |
| 21 | Providing and fixing glazed shutters for doors 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 (30mm thick shutters) | Sq.M | 50.00 | 2926.06 | 146303.00 |
| 22 | 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 C | RM | 280.000 | 345.58 | 96762.40 |
| 23 | Providing and fixing factory made UPVC door 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 | 100.00 | 449.19 | 44919.00 |

| SL NO | DESCRIPTION OF ITEM | UNIT | QTY | RATE | AMOUNT |
|-------|--|------|--------|---------|----------|
| 24 | Providing and fixing to existing door frames 30mm thick factory made PVC door shutter made of styles and rails of a UPVC hollow section of size 30x60mm and thickness 2mm +/-0.2mm with inbuilt edging on both sides. The styles and rails mitred and jointed at the corners by means of M.S galvanised /plastic brackets of size 75x220 mm having wall thick ness 1.0mm and stainless steel screws. the styles of the shutter reinforced by inserting galvanised M.S tube of size 20x20mm and 1mm +/- 0.1mm wall thickness. the lock rail made up of H section, a UPVC hollow section of size 100x30mm and 2mm+/- 0.2mm wall thickness fixed to the shutter styles by means of plastic / galvanised M.S U cleats. the shutter frame filled with a UPVC multichambered single panel of size not less than 620mm , having over all thickness of 20mm and 1mm +/- 0.1mm wall thickness with 20mm panel beading of suitable size / glass (4mm thick) /louver section , louver frame of the suitable size the panels filled vertically and tie bar at two places by inserting horizontally 6mm galvanised M.S rod and fastened with nuts and washers complete as per manufacture's specification and direction of Engineer in Charge. (For WC and bathroom door shutter) | Sq.M | 36.00 | 2403.21 | 86515.56 |
| 25 | Providing and fixing ISI marked oxidised M.S pressed Butt hinges with necessary screw etc complete | | | | |
| | 100x58x1.90mm | Each | 240.00 | 29.70 | 7128.00 |

| SL NO | DESCRIPTION OF ITEM | UNIT | QTY | RATE | AMOUNT |
|-------|---|------|--------|--------|---------|
| 26 | Providing and fixing ISI marked oxidised M.S tower bolt black finish (barrel type) with necessary screws etc complete: | | | | |
| | 200x10mm | Each | 140.00 | 33.43 | 4680.20 |
| 27 | Providing and fixing ISI marked oxidised M.S door latches conforming to IS 5930 with screws etc complete.. | | | | |
| | 250x20x6 mm | Each | 40.00 | 155.65 | 6226.00 |
| 28 | Providing and fixing ISI marked oxidised M.S handles conforming to IS 4992 with screws etc complete.. | | | | |
| (a) | 125 mm | Each | 150.00 | 16.79 | 2518.50 |
| (b) | 100mm | Each | 150.00 | 13.20 | 1980.00 |
| 29 | Providing and fixing of ISI marked oxidised M.S Sliding door bolts with nut and screw etc complete | | | | |
| | 300x16mm | Each | 10.00 | 196.57 | 1965.70 |
| 30 | Providing and fixing ISI marked oxidised M.S tower bolt black finish (barrel type) with necessary screws etc complete: | | | | |
| | 150x10mm | Each | 100.00 | 25.28 | 2528.00 |
| 31 | 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 cement concrete block 30x10x15 cm 1:3:6 mix (1 cement : 3 sand: 6 coarse aggregate) | Each | 120.00 | 78.15 | 9378.00 |

| SL NO | DESCRIPTION OF ITEM | UNIT | QTY | RATE | AMOUNT |
|-------|---|------|---------|---------|-----------|
| 32 | Providing and fixing ISI marked steel glazed doors, windows and ventilators of standard rolled steel sections, (as per IS 1038 with Z or L section)joints mitred and welded with 15x3 mm lugs, 10cm long, embedded in cement concrete blocks 15x10x10 CM of 1:3:6 (1 cement: 3 Sand: 6 graded stone aggregate 20mm nominal size) or with wooden plugs and screw or rawl plugs and screws or with fixing clips or with bolts and nuts as required, including providing and fixing of glass panes with glazing clips and special metal sash putty of approved make complete including applying a priming coat of approved steel primer, excluding the cost of metal beading and including other fitting (stay ,handle),necessary hinges or Pivots as required. | Sq.M | 30.00 | 1927.21 | 57816.30 |
| 33 | 6mm cement plaster of mix 1:4 (1 cement: 4 Sand) | Sq.M | 800.00 | 62.59 | 50072.00 |
| 34 | 15mm cement plaster of mix 1:6 (1 cement: 6 Sand)over rough side of half brickwork | Sq.M | 3503.00 | 84.69 | 296669.07 |
| 35 | 20mm cement plaster of mix 1:6 (1 cement: 6 Sand) | Sq.M | 1600.00 | 102.34 | 163744.00 |
| 36 | Neat cement Punning | Sq.M | 5000.00 | 25.04 | 125200.00 |
| 37 | 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 20mm nominal size stone aggregate | Sq.M | 903.00 | 237.98 | 214895.94 |
| 38 | cement plaster skirting (Upto 30CM height) with cement mortar 1:3(1 cement : 3 Sand) finished with floating coat | | | | |
| | 18mm thick | Sq.M | 80.00 | 189.16 | 15132.80 |
| 39 | White washing with KATNI lime to give an even shade | | | | |
| | New work (Three or more coat | Sq.M | 3500.00 | 10.01 | 35035.00 |
| 40 | Applying one coat of cement primer of approved brand and manufacturer on wall surface | | | | |
| | Cement primer | Sq.M | 1200.00 | 26.91 | 32292.00 |
| 41 | Finishing wall with acrylic smooth exterior paint of required shade: | | | | |
| | New work (two or more coat applied @1.67kg/10 Sq.M) over and including base coats of water proofing cement paint applied @ 2.2 Kg/10 Sq.M | Sq.M | 1000.00 | 64.09 | 64090.00 |
| 42 | Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: | Sq.M | 350.00 | 48.96 | 17136.00 |
| | Two or more coats on new work | | | | |
| 43 | Painting with black anti-corosive bitumastic paint of approved brand and manufacture to give an even shade | | | | |
| | Two or more coats on new work | Sq.M | 50.00 | 36.45 | 1822.50 |

| SL NO | DESCRIPTION OF ITEM | UNIT | QTY | RATE | AMOUNT |
|-------|---|------|--------|---------|-----------|
| 44 | 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, bottle 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 | Sq.M | 200.00 | 735.92 | 147184.00 |
| 45 | Providing and laying ceramic glazed floor tiles 300x300mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS 15622 of approved make in colours such as 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. | Sq.M | 100.00 | 802.67 | 80267.00 |
| 46 | Providing & fixing ultra paving tile over 20mm thick cement mortar 1:4 (1 cement 4 sand) | Sqm | 135.00 | 1190.00 | 160650.00 |
| 47 | Providing and fixing water closet squatting pan (Indian type W.C.Pan) with 100mm sand cast iron Por S trap, 10ltr 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 of size 580x440mm with integral type foot rests. | Each | 8.00 | 3469.19 | 27753.52 |
| 48 | Providing and fixing one piece construction white vitreous china squatting plate with integral longitudinal flushing pipe, white P.V.C automatic flushing cistern with fittings standard size G.I flush pipe for back and front flush with standard spreader pipes with fittings, G.I clamps and CP brass coupling complete including painting of fittings and cuttings and making good the walls floors etc wherever required: | | | | |
| | Single squatting plate with 5litre PVC automatic flushing cistern | Each | 4.00 | 3129.51 | 12518.04 |
| 49 | Providing and fixing White vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265mm sizes respectively with automatic flushing cistern with standard flush pipe and CP brass spreaders with brass union and G.I clamps complete including painting of Fittings and brackets cutting and making good the walls and floors wherever required: | | | | |
| | One urinal basin with 5litre white P.V.C automatic flushing cistern. | Each | 6.00 | 3062.24 | 18373.44 |
| 50 | Providing and fixing PVC low level flushing cistern with manually controlled device (handle lever) conforming to IS 7231 with all fittings and fixtures complete. 10ltr Capacity white | Each | 10.00 | 1079.99 | 10799.90 |
| 51 | Providing and fixing of white vitreous china wash basin including making all connection but excluding the cost of fittings: Surgeon type wash basin of size 660x460mm | Each | 3.00 | 4719.53 | 14158.59 |
| 52 | Providing and fixing of CP towel rail complete with bracket fixed to wooden cleats with CVp brass screw with concealed arrangement of approved make and brand and quality : 600mm x20mm dia CP Brass | Each | 5.00 | 516.81 | 2584.05 |
| 53 | Providing and fixing Soil, waste and vent pipes (SAND CAST IRON (S&S) PIPE as per IS 1729 | | | | |
| | 100mm dia | RM | 160.00 | 482.70 | 77232.00 |

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|-------|--|------|--------------|------------|-------------------|
| 54 | Providing and laying cement concrete 1:5:10 (1 cement: 5 coarse aggregate: 10 graded stone aggregate) around SW pipes including bed concrete as per standard design: 150mm dia | RM | 250.00 | 511.01 | 127752.50 |
| 55 | 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 including cutting chases and making good the walls etc.) 15mm nominal bore | RM | 60.00 | 239.19 | 14351.40 |
| | 20mm nominal bore | RM | 250.00 | 276.80 | 69200.00 |
| 56 | 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 (Internal work exposed on Wall) 50mm nominal bore | RM | 100.00 | 716.10 | 71610.00 |
| 57 | Providing and fixing square mouth S.W gully 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: 180x150mm size P type with F.P.S bricks class designation 75 | Each | 5.00 | 1873.90 | 9369.50 |
| 58 | Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing and staircases railing including applying priming coat of approved steel primer Stainless steel Tube of 302/202 grade | RM | 50.00 | 1303.95 | 65197.50 |
| 59 | Providing and applying cement slurry coat (minimum two layer) admixed with polymer modified water proofing cum bonding agent as per manufacturer specification and direction of Engineer in Charge. | Sq.M | 1000.00 | 105.41 | 105410.00 |
| 60 | 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) | Sq.M | 500.00 | 315.88 | 157940.00 |
| 61 | Providing and placing on terrace (at all floor levels) polythelene water storage tank ISI 12701 marked with cover and suitable locking arrangement and making necessary holes for inlets outlet and overflow pipe but without fittings and the base support for the tank | ltr | 3000.00 | 7.01 | 21030.00 |
| | | | TOTAL | RS. | 8500481.93 |
| | | | SAY | RS. | 8500500.00 |