

URANIUM CORPORATION OF INDIA LIMITED

Schedule of quantities for : Construction of MCC building, control room, foundations for Crane, Mill and other structures for Magnetite plant in Mill area at Turamdih

NIT No. TMD / 623

Item No.	Item Description	Quantity	Unit	Rates in Figures & Words in Rupees	Amounts in Rupees
1	Earthwork in excavation in the following types of soil and rock upto any depth up to 6.00 Mtrs including bailing/pumping out any water accumulating inside the excavated pit/trench, shoring, strutting(as directed by Engineer) adequate protection to be taken during excavation/drilling/blasting, stacking the excavated soil for 100 mtr lead as directed by the Engineer, all complete as per drawing, specification and Engineer in charge.				
a	Ordinary soil, Hard soil	1500	cum		
b	Ordinary rock	1200	cum		
c	Hard rock	1500	cum		
2	Earth work in back filling with available earth including watering and compaction at all elevations around foundations, walls, wells, tunnels, pits, culverts, trenches, road approaches and in plinth filling & area filling as per specifications and drawings and as directed by the Engineer with selected spoil within a lead of 100 mtr as per specification.	1600	M ³		

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3	Disposal/carriage of rubbish/ rock/ earth etc.dumped/stacked at site by mechanicalmeans including loading unloading and dressing up the same, lead up to 5 K.M. and up to any lift including cost of all labour , fuel and equipment as directed	2000	M ³		
4	Demolishing brick work including stacking of serviceable material and disposal of unserviceable material with 50 mtr.lead. In cement mortar	40	cum		
5	Supplying, filling and hydraulically compacting sand in foundations, walls, plinths and in other areas as per drawing, specifications and directions of Engineer.	100	cum		
6	Supply, mix, place in position compact & cure cement concrete 1:3:6 (1 cement: 3 coarse sand: 6 graded stone aggregate 20mm nominalsize) below foundations, walls, wells, pits, trenches, etc. & in basin lining as per specifications, drawings and directions of the Engineer and including cost of centring and shuttering and cement.	185	cum		

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7	Supply, mix, place in position compact and cure including testing of concrete specimens, finishing surface as per specifications, drawings and directions of the Engineer, of the following grade of reinforced cement concrete with 20 mm and down graded stone aggregate and coarse sand excluding cost of centring , shuttering and reinforcement at all elevation but including cost of cement,plastisizer quick setting compound etc. M-25 below &above ground fl.level up to any lift	1400	cum		
8	Supply, bend, bind and place the following types of reinforcement in all types of reinforced concrete work at all elevations, including cleaning, straightening, cutting, bending and binding with 18 SWG annealed wire or with welding such as tack, lap, butt etc. with approved electrodes, providing concrete cover blocks, pins, chairs, nails, supports of reinforcement etc. with all materials and labour complete as per drawings, specifications and directions of Engineer including cost of reinforcement. High yield strength deformed bars	135	MT		

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Item No.	Item Description	Quantity	Unit	Rates in Figures & Words in Rupees	Amounts in Rupees
9	Install, dismantle and remove the form work of approved quality including splay, recess, corners, haunch etc. scaffolding and necessary rendering of concrete surfaces after exposure, including cost of all material and labour at all elevations. with good quality plywood	3000	sqm		
10	Supply and laying in position of brickwork with class designate 75 bricks (compressive strength not less than 75 Kg./Sq. Cm. in building/ drains etc at various elevations in cement-coarse sand mortar (1:6) including mixing mortar, laying bricks, raking joints, curing etc. complete with all materials and labours as per drawings and specification .	280	cum		
11	15mm thick (minimum) plastering with 1:6 (1 cement: 6 coarse sand) to interior faces of walls, channels in roof and other structures at various elevations including mixing, laying, finishing, curing and necessary scaffolding work complete as per drawings, specifications and instructions of the Engineer with all materials and labours including . making grooves as directed	4000	sqm		

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Item No.	Item Description	Quantity	Unit	Rates in Figures & Words in Rupees	Amounts in Rupees
12	Providing 3 mm thick neat cement punning over plastered surface , curing etc complete as per direction of EIC including cost of all material and labour.	500	sqm		
13	Grouting with free flow cementious material.i.e Anchor NSG all complete including cost of all materials and labours.	0.5	cum		
14	Making pocket of size up to 150mm x150mm and depth up to 1.00 Mtr all complete as per direction of EIC including cost of all materials and labours	150	Each		
15	Supplying and applying three(3) or more coats of approved water proof cement paint over a coat of primer to exterior surfaces of concrete masonry, plastered surface etc at all elevation and including preparation of surface, necessary scaffolding work etc. complete with all materials and labour (Applica-tion of paint should be made as per manufacturer's specifica-tions.) to give an even shade.	3100	sqm		
16	Dismantling RCC including cutting of reinforcement and disposal of rubbish up to 50 mtrs lead.	60	cum		

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Item No.	Item Description	Quantity	Unit	Rates in Figures & Words in Rupees	Amounts in Rupees
17	Finishing with Epoxy painting (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete on concrete / steel work.	50	Sq.m.		
18	Supply and fixing chain link fencing of 10SWG with opening of 50 x 50 mm with exiting posts (concrete / structural) including cost of all materials for fixing, labours etc. complete as per drawing, specifications and as directed by Engineer -in charge.	150	Sq.m.		
19	Providing and applying integral finish with very hard granulates of mineral origin like SIKACHAPDUR or equivalent including smoothing out and flattening off freshly poured concrete, priming the concrete surface with additional cement and sprinkling the granulates over this still wet surface at the proportion of 5.0 Kg./sq.m. and smoothing out operation, curing etc. complete all strictly as per manufacturer's specifications including cost of all material complete as per directions of the Engineer.	400	sqm		

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Item No.	Item Description	Quantity	Unit	Rates in Figures & Words in Rupees	Amounts in Rupees
20	Supply fabricate, transport and erect structural steel work all necessary connections (including welding and bolting, nuts, washers, gussets etc. complete) & a shop coat of red-oxide zinc chromate primer (ready mixed paint conforming to IS: 2074) over etching primer and two coats of final finish painting synthetic enamel paint conforming to IS: 2932/ 2933) as per drawings, specifications and directions of the Engineer including cost of all material mainly in cable trenches	12000	kg		
21	40 mm thick cement concrete flooring 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate) finished with a floating coat of neat cement including cement slurry, but excluding cost of nosing of steps etc. complete as per direction of Engineer in charge. with all materials and labour	40	sqm		
22	Providing and mixing water proofing material in cement concrete work @ 1kg per 50 kg of cement or as per manufacturer's specifications.	100	kg		

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Item No.	Item Description	Quantity	Unit	Rates in Figures & Words in Rupees	Amounts in Rupees
23	<p>Supplying and fixing Cavity floor constructed of 605 mm panel dimension including ramps and steps as required. The pedestal/jackbolt shall be made of 19mm MS Rod welded to 110 mm x 110 mm x 8 mm thick M.S. base plate. The bolt will be fixed on the floors with Araldite and Rawl plug placed diagonally in one direction at 605 mm centers. The pedestal Jack head will be of pressure die cast - aluminium zinc alloy of proper composition, capable of carrying the total weight of flooring and will be fixed over the threaded bolt head with two heavy check-nuts. The pedestal jack will be capable of supporting a load of 2500 kgs. with deformation. The floor work shall be made of 40 mm x 40 mm x 3.15 mm thick cold rolled M.S. Channel fixed over jack-head at 610 mm centers in both directions. The main channel shall be upto 2.44 m long and panel 605 mm x 605 mm x 35 mm made of phenol formaldehyde bonded particle board which shall be covered by 26swg GI sheet underneath fixed with Araldite adhesive. Each floor panel shall be marked. Stringers shall be completely removable and shall</p> <p>Stringers shall be completely removable and shall remain in position without screwing or bolting. Each floor panel shall be marked on the underside with stickers for identification and shall be interchangeable. This floor shall be levelled within a tolerance limit of 3mm overall and 1.5 mm in any 3048 mm</p>				

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	segment. It must be capable of withstanding a uniform load of 1220 kg/sq.m. or a load of 454 kg. on any 6.5 sq.m. with a maximum deflection of 2.5 mm. All steel framework and stools shall be given anticorrosive base coat and finished with superior quality paint. the floor panel shall be cut wherever required for providing suitable outlets for cables. The finishing materials for the floor board shall be PVC anti-static tiles 605 mm x 605 mm size 2 mm thick as per IS:3462 with 2 mm beading on all sides for edge protection and shade as approved by the Engineer-in-charge.	80	sqm		
24	Providing and fixing 38 mm thick acid and / or alkali resistant tiles of approved make and colour using acid and / or alkali resisting cement as per IS : 4457 complete as per the direction of Engineer - in - charge.	40	sqm		
25	Painting with acid proof paint of approved brand and manufacture of required colour to give an even shade with two or more coats on new / old work.	40	sqm		
26	Making opening / cut outs in brick masonry or concrete including dismantling in floor or walls by cutting and making good the damages to walls, flooring and jambs complete to match existing surface including disposal of mulba / rubbish to the nearest dumping ground.	12	Each		

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Item No.	Item Description	Quantity	Unit	Rates in Figures & Words in Rupees	Amounts in Rupees
27	Providing and laying non- pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc complete.				
	a) 150 mm dia	20	Rm		
	b) 250 mm dia	100	Rm		
	c) 300 mm dia	20	Rm		
28	Supplying and Laying of G.I pipes complete with G.I. fittings including trenching and refilling all complete including welding if required as per specifications and direction of Engineer-in-charge(Pipes and fittings to be supplied by department free of cost will be taken out from inside plant area and transported to work site at contractor's cost).Medium duty Make TATA/Zindal				
	a) 50 mm dia N.B pipes and fittings	10	Rm		
	b) 100mm dia N.B pipes and fittings	10	Rm		
	c) 150 mm dia N.B pipes and fittings	10	Rm		

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Item No.	Item Description	Quantity	Unit	Rates in Figures & Words in Rupees	Amounts in Rupees
29	Supply fabricate, transport and erect structural steel work all necessary connections (including welding and bolting, nuts, washers, gussets etc. complete) & a shop coat of red-oxide zinc chromate primer (ready mixed paint conforming to IS: 2074) over etching primer and two coats of final finish painting synthetic enamel paint conforming to IS:2932/ 2933) as per drawings, specifications and directions of the Engineer including cost of all material	5000	kg		
30	Preparation of grading under bed in roof or screed in trench, tank and basement floors of the following categories at various elevations, complete including supply of all materials, mixing, laying true to line and level curing etc. as per drawings specifications and directions of the Engineer. Grading / Screed concrete with 1cement: 1.5 Coarse sand: 3 aggregate (12mm and down) by volume.	25	Cu.M.		
31	Providing and applying plaster 6mm thick in cement mortar 1:3 (1cement : 3 fine sand) in ceiling finishing, curing, all complete including cost of all material and labour	500	sqm		

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Item No.	Item Description	Quantity	Unit	Rates in Figures & Words in Rupees	Amounts in Rupees
32	Providing and fixing 1 mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer using M.S. angles 40x40x6 mm for diagonal braces.	50	sqm		
33	Supplying, including assembly fitting and fixing in position steel windows(openable, fixed or semi openable type), ventilators, skylights at various elevations including frames, shutters, transom, mullions, couplings, brass pegs stay 300 mm wieghing not less than 330gm , brass window fastners, grouting the frames in masonry or concrete and applying approved primer and two (2) coats of synthetic enamel paint of approved make and shade etc. complete as per drawings, specifications and instructions of the Engineer. (Glass will be measured and paid separately under relevant item). (Windows as per IS: 1361).	900	Kg		

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Item No.	Item Description	Quantity	Unit	Rates in Figures & Words in Rupees	Amounts in Rupees
34	Providing and fixing Aluminium work for door ,window, ventilator with extruded built up standard tubular section / appropriate Z section and other section of approved make conforming to IS 733 and IS : 1285 fixing with dash fastner of required dia and size etc , necessary filling up the gap at junctions i.e. at top,bottom,sides etc with required EPDM rubber / neoprene gasket etc . Aluminum sections shall be rust free , straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beadingf or glazing/ panneling,CP brass/ stainless steel screws all complete as per structural drawing and direction of Engineer in charge.(Polyester powder coated Aluminium having minimum thickness of polyester powder coating 50 micron)Glazing, panneling to be paid for separately.	50	sqm		
35	Supplying, fitting and fixing, glazing to metal windows and partitions with glass (superior quality first class grade) at various elevations, including supplying putty, mastic cement etc. cleaning after fixing with all materials etc. complete.				
a)	4 mm thick glass	50	sqm		
b)	5.5 mm thick glass	50	sqm		

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Item No.	Item Description	Quantity	Unit	Rates in Figures & Words in Rupees	Amounts in Rupees
36	Providing and fixing Aluminium work for door ,window, ventilator with extruded built up standard tubular section / appropriate Z section and other section of approved make coforming to IS 733 and IS : 1285 fixing with dash fastner of required dia and size etc , necessary filling up the gap at junctionsi.e. at top,bottom,sides etc with required EPDM rubber / neoprene gasket etc . Aluminum sections shall be rust free , straight, mitred and jointed mechanically wherever reqired including cleat angle, Aluminium snap beadingf or glazing/ panneling,CP brass/ stainless steel screws all complete as per structural drawing and direction of Engineer in charge.(Polyster powder coated Aluminium having minimum thickness of polyster powder coating 50 micron)Glazing, panneling to be paid for separately.	100	Kg		
37	Providing and fixing on wall face unplastisizes rigid PVC rain water pipes coforming to IS 13592 type A including seal ring including clamp, bend , shoes etc all complete as per specification testing of joints with necessary 150 mm dia	60	M		

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Item No.	Item Description	Quantity	Unit	Rates in Figures & Words in Rupees	Amounts in Rupees
38	Supplying, fitting and fixing in position approved quality Chromium plated brass fittings and fixtures to wooden door shutters at various elevations with all necessary fixing items and materials complete as per drawing schedule of fixtures for wooden doors and specifications Floor door stopper	5	Nos		
39	Supplying, fitting and fixing in position approved quality Chromium plated brass fittings and fixtures to wooden door shutters at various elevations with all necessary fixing items and materials complete as per drawing schedule of fixtures for wooden doors and specifications Hydraulic door closure	2	Nos		
40	Surface dressing of the ground including removing vegetation and in-equalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift upto 1.5 m in All kinds of soil	100	sqm		
41	Supplying and fixing Nuts and Bolts as per drawing	1000	Kg		
42	18 mm thick cement plaster skirting up to 30 cm height with cement mortar 1:3 finished with a coat of neat cement including dismantling old plaster etc.complete as per direction of Engineer in charge.	10	M ²		

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Item	Quantit	Rates in Figures	Amounts in
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Item No.	Item Description	Quantity	Unit	& Words in Rupees	Amounts in Rupees
43	Wall painting over P.O.P.with plastic emulsion paint of approved brand and manufacturer to give an even shade two or more coats over and including priming coat with cement primer.	100	M2		
44	Filling the gap in between aluminium frame and adjacent RCC / brick / stone work by providing weather silcon cement over backer rod of approved ququality as per drg. And direction of E.I.C. complete. Upto 5 mm x5 mm.	100	Rm		
45	Forming /Making groove of uniform size from 12x12 mm and upto 25x15 mm in plastered surface as per approved pattern using wooden battens, nailed to the under layer including removal of wooden battens, repairs to the edges of plaster panel and finishing the groove complete as per specifications and direction of the Engineer in charge.	500	Rm		
		Total Quoted Value Rs			

	Net quoted value	Rs.
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[illegible]

2) All the pages of tender document including price part must be duly signed by the tenderer along with their seal, without which tenders may likely to be rejected.