

CHAPTER - 17 : MISCELLANEOUS BUILDING WORKS				
Item No.	Description of Item	Unit	Rate (Rs.)	Cement Qty.(qtl.)
171010	Repairs to plaster of thickness 12mm to 20mm in patches of area 2.5Sq. metres and under including cutting the patch in proper shape and preparing and plastering the surface of the walls complete including disposal of rubbish to the dumping ground within 100 metres Lead			
171011	With cement mortar 1:4 (1cement: 4fine sand)	Sqm	90.61	0.070
171012	With cement mortar 1:4 (1cement: 4coarse sand)	Sqm	91.74	0.070
171020	Fixing chowkhats in existing opening including embedding chowkhats in floors or walls, cutting masonry for holdfasts embedding hold fasts in cement concrete blocks of 1:2;4 (1cement: 2coarse sand: 4graded stone aggregate 20mm nominal size) painting two coats of coal tar to sides of chowkhats and making good the damages to walls and floors to match existing surface, complete including disposal of rubbish to the dumping ground within 50 metres lead			
171021	Door chowkhats	Each	337.99	0.120
171022	Window chowkhats	Each	218.15	0.060
171023	Clerestory window chowkhats	Each	167.23	0.030
171030	Making the opening for door/window /clerestory window in brick masonry including dismantling, fixing chowkhats, cutting masonry and making good the damages to walls/flooring/jambes to match existing surface including disposal of malba to the dumping ground within 50 metres Lead, complete	sqm	238.51	
171040	Renewing glass panes with putty and nails wherever necessary			
171041	Float Glass panes of thickness 4 mm	sqm	602.32	
171042	Float Glass panes of thickness 5.5 mm	sqm	675.29	
171050	Renewing glass panes with wooden fillets and nails wherever necessary			
171051	Float Glass panes of thickness 4 mm	sqm	692.89	
171052	Float Glass panes of thickness 5.5 mm	sqm	765.85	
171060	Supplying and fixing new wooden fillets with nails wherever necessary			
171061	2nd class teak wood fillets	sqm	22.39	
171062	Hollock wood fillets	sqm	17.72	
171070	Renewal of old putty of glass panes (length)	metre	12.42	
171080	Refixing old glass panes with putty and nails	Sqm	160.24	
171090	Fixing old glass panes including cutting to suitable size with wooden fillets (excluding cost of fillets and nails etc.)	Sqm	122.11	

Item No.	Description of Item	Unit	Rate (Rs.)	Cement Qty.(qtl.)
171100	Providing and fixing 16mm MS Fan clamps of standard shape and size in existing R.C.C. slab including cutting chase and making good with 1:2 C:S mortar and painting (Two coats) exposed portion of the clamps complete	Each	132.31	0.016
171110	Regrading terracing of mud phaska with tiles/brick by dismantling tiles/bricks, cleaning these before reuse, removing mud plaster, preparing the surface of mud phaska to proper slope, relaying plaster gobi leaping and tiles or bricks, grouted in cement mortar 1:3 (1cement: 3fine sand), replacing unserviceable tiles or bricks with new ones and disposal of unserviceable material to the dumping ground (New tiles or brick to be paid separately) including all lead, lift etc.	Sqm	125.68	0.031
171120	Making opening or recesses in A.C. corrugated/ semi corrugated sheet roofing of girth not more than 1 metre			
171121	Not exceeding 100 sq.cm. in area	Each	13.29	
171122	Exceeding 100 sq.cm. but not exceeding 400 sq.cm. in area	Each	16.47	
171123	Exceeding 400 sq.cm. in area	Each	30.06	
171130	Taking out wind ties from roof including cutting out rusted bolts, nuts etc. incl. lead upto lead 50 M, lift & stacking in designated store	Kg	2.70	
171140	Fixing of old wind tie with new fittings including painting two or more coats with anticorrosive bitumastic paint of approved brand/colour/ manufacture over priming coat of ready mixed zinc chromate yellow primer/ ready mixed metallic primer of approved brand	metre	43.76	
171150	Pointing on brick work with mortar of white cement, lime putty, marble dust and stone sand in proportion ¼:1:1:1 (¼white cement: 1lime putty: 1marble dust: 1stone sand)			
171151	Flush pointing	Sqm	54.20	
171152	Ruled pointing	Sqm	57.12	
171153	Struck or weathered pointing	Sqm	69.03	
171160	Pointing on tile brick work with mortar of white cement lime marble dust and stone sand in proportion ¼:1:1:1 (¼white cement: 1lime putty: 1marble dust: 1stone sand)			
171161	Flush pointing	Sqm	118.65	
171162	Ruled pointing	Sqm	79.45	
171163	Struck or weathered pointing	Sqm	90.38	

Item No.	Description of Item	Unit	Rate (Rs.)	Cement Qty.(qtl.)
171170	Providing and laying integral cement based treatment for water proofing on horizontal surface at all depths below ground level for under ground structures levels consisting of (i) 1st layer of 20mm thick approved rough stone slab over 25mm thick average base of 1:3 mortar (1cement: 3coarse sand) mixed with water proofing compound conforming to IS: 2645 over levelling course (levelling course to be paid separately). Joints sealed and grouted with cement slurry mixed with water proofing compound (ii) 2nd layer of 25 mm thick cement mortar 1:3 (1cement: 3coarse sand) mixed with water proofing compound as per manufacturer instructions (iii) Finishing top with stone aggregate of 10mm to 12mm nominal size spreading @ 8cudm / sqm thoroughly embedded in the 2nd layer			
171171	Using rough kota stone	Sqm	671.86	0.342
171172	Using rough red sand stone	Sqm	417.92	0.342
171180	Providing and laying integral cement based treatment for water proofing on the vertical surfaces by fixing specified stone slab 20mm thick with cement slurry mixed with water proofing compound conforming to IS: 2645 in recommended proportions with a gap of 20mm (minimum) between stone slabs and the receiving surfaces and filling the gaps with neat cement slurry mixed with water proofing compound and finishing the exterior of stone slab with cement mortar 1:3 (1cement: 3coarse sand) 20mm thick with neat cement punning mixed with water proofing compound in recommended proportion complete at all levels and as directed by the Engineer-in-Charge			
171181	Using rough kota stone	Sqm	746.01	0.443
171182	Using rough red sand stone	Sqm	492.08	0.443
171190	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of WC, kitchen and the like consisting of : (i) 1st course of cement slurry @ 4.4kg/ sqm mixed with water proofing compound conforming to IS: 2645 in recommended proportions incl. rounding of junction of vertical and horizontal surfaces. (ii) 2nd course of 20mm cement plaster 1:3 (1cement: 3coarse sand) mixed with water proofing compound (iii) 3rd course of blown or residual bitumen applied hot @ 1.7kg/ sqm & (iv) 4th course of 400micron thick PVC sheet with 100mm wide overlaps at joints pasted to each other with bitumen @ 1.7kg/ sqm	Sqm	266.77	0.158
171200	Providing and placing in position suitable PVC water stops conforming to IS: 12200 for construction joints between two RCC members and fixed to the reinforcement with binding wire before pouring concrete etc. complete			

Item No.	Description of Item	Unit	Rate (Rs.)	Cement Qty.(qtl.)
171201	Serrated with central bulb (225mm wide, 8-11mm thick)	Sqm	585.02	
171202	Dumb bell with central bulb (180mm wide, 8mm thick)	Sqm	567.60	
171203	Kickers (320mm wide, 5mm thick)	Sqm	56.54	
171210	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc. by applying cement slurry mixed with water proofing cement compound as per IS 2645 in layers a) 1st layer of slurry of cement @ 0.488kg/ sqm mixed with water proofing cement compound @ 0.253 lit/Sqm, allowed to air cure for 4hours.(b) 2nd layer of slurry of cement @ 0.242kg/ sqm mixed with water proofing cement compound @ 0.126 lit/Sqm, allowed to air cure for 4 hours followed with water curing for 48hours.Rate includes preparation of surface, treatment, sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry. Rendering/ plastering as protective layer, if required will be paid separately	Sqm	133.47	0.012
171220	Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound as per IS 2645 in layers (i) After surface preparation, 1st layer of slurry of cement @ 0.488kg/ sqm mixed with water proofing cement compound @ 0.253 lit/sqm (ii) 2nd layer of Fibre glass cloth while 1st layer is still green. Overlaps of joints of fibre cloth should not be less than 10cm (iii) 3rd layer of 1.5mm thickness consisting of slurry of cement @ 1.289kg/ sqm mixed with water proofing cement compound @ 0.67 lit/sqm and coarse sand @ 1.289kg/ Sqm, allowed to air cure for 4hours followed by water curing for 48hours. (iv) 4th and final layer of brick tiling with cement mortar which will be paid for separately	Sqm	224.89	0.020
171230	Providing and laying integral cement based water proofing treatment incl. preparation of surface on roofs, balconies, terraces etc. (i) Grouting a slurry coat of neat cement @ 2.75kg/ sqm mixed with water proofing compound conforming to IS: 2645 inc. walls upto 300mm height. (ii) Laying CC with brickbats 25 to 40mm with 50% of cement mortar 1:5 (1cement: 5coarse sand) Contd	Sqm	410.96	0.387
	Contd mixed with water proofing compound over 20mm thick layer of cement mortar of 1:5 mortar mixed with water proofing compound to required slope, treating adjoining walls upto 300mm height, rounding of junctions. (iii) Curing for 2 days & applying 2nd coat of cement slurry @ 2.75 kg/sqm mixed with water proofing compound. (iv) Finishing surface with 20mm thick jointless cement mortar of mix 1:4 (1cement: 4coarse sand)			

Item No.	Description of Item	Unit	Rate (Rs.)	Cement Qty.(qtl.)
171240	Supplying and applying bituminous solution primer on roof and or wall surface at 0.24litre per sqm	Sqm	21.77	
171250	Water proofing of Overhead & Underground water tank by : Providing and fixing 12mm N.B.M.S. threaded nozzle of 75mm length upto reqd. depth in an approximate grid pattern at a spacing not exceeding 1.5m c/c on entire flooring, walls etc. followed by injecting water-proof Non-shrinkable Polymeric Grouting Compound (NSPGC) mixed with cement slurry @ 2% of weight of cement through nozzle under 2.5 kg/cm ² pressure. The grout should be pumped until it flows through all pores and voids thereby sealing them. The nozzles should be sealed with quick setting admixture. Thereafter two coats of Tapecrete acrylic based polymer water proofing compound (having solid content 30% ± 2, pH >7) admixed with cement in 1:2 ratio to be applied on the entire surface of tank, 12 mm thick 1:4 plaster (to be paid separately) to be applied as a top coat	Sqm	338.15	As per site requirement
171260	Grading / Regrading of roof for water proofing treatment with :			
171261	Cement concrete 1:2:4 (1cement: 2coarse sand: 4graded stone aggregate 20mm nominal size)	cum	1602.96	3.200
171262	Cement mortar 1:3 (1cement: 3coarse sand)	cum	2284.99	5.100
171263	Cement mortar 1:4 (1cement: 4coarse sand)	cum	2284.99	3.800
171270	Providing and fixing corner beading of 2nd class teak wood of size 60x65mm including screws etc. complete	metre	359.66	
171280	Providing and fixing fancy printed tiles of size 150x75 mm or any other suitable length conforming to IS: 15622 in border of baths and toilets on 12mm thick cement plaster 1:3/ chemical adhesive (1cement : 3coarse sand) jointed with matching pigment etc. complete	Sqm	472.33	0.009
171290	Providing and laying vitrified printed border tiles of size 400x100mm or any other size conforming to IS:15622 on mosaic floor after hacking with suitable floor adhesive like ultimate or unitiles etc. including finishing the joints, pointed with white cement slurry with suitable pigment to match the shade of the tiles etc. complete	Sqm	667.00	
171300	Providing and fixing stainless steel kitchen rack of suitable size of approved make	Kg	141.27	0.012
171310	Providing & fixing reflective paver blocks of approved sizes and design, conforming to IS:15658-2006, manufactured with wet cast vibration system in two layers, 10-15 mm thick top layer consisting of graded stone aggregate, silica sand and UV stabilised iron oxide Bayer colour and bottom layer with M-40 concrete having galvanised steel fibre reinforcement; to be fixed over uniform bedding of 50mm thick fine sand & joints filled with sand for thickness as :			

Item No.	Description of Item	Unit	Rate (Rs.)	Cement Qty.(qtl.)
171311	60mm thick reflective paver blocks	Sqm	789.85	
171312	80mm thick reflective paver blocks	Sqm	864.77	
171320	Supplying chemical emulsion (Chlorpyriphos / Lindane emulsifiable concentrate of 20%) in sealed containers	Litre	311.67	
171330	Diluting and injecting chemical emulsion Chlorpyriphos/ Lindane E.C. 20% with 1% concentration for post constructional anti-termite treatment (Payment for chemical emulsion to be made separately)			
171331	Along external wall where the apron is not provided using chemical emulsion @ 7.5 litres/ Sqm of the vertical surface of the substructure to a depth of 300mm including excavating channel along the wall and rodding etc. and making good the same	metre	8.12	
171332	Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling & plugging holes etc.	metre	12.11	
171333	Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300mm apart including drilling 12mm diameter holes and plugging with cement mortar 1:2 (1cement: 2coarse sand) to match the existing floor	Sqm	60.04	
171334	Treatment of existing masonry using chemical emulsion @ one litre per hole at 300mm interval including drilling holes at 45 degree and plugging them with cement mortar 1: 2 (1cement: 2coarse sand) to the full depth of the hole	metre	9.06	
171335	Treatment at points of contact of wood work by chemical emulsion in oil or kerosene based solution @ 0.5 litres per hole by drilling 6mm dia holes at downward angle of 45 degree at 150mm centre to centre and sealing the same	metre	30.95	
171340	Fixing holding down bolts to timber. (Labour rates only)	Each	17.00	
171350	Fixing holding down bolts in masonry. (Labour rates only)	Each	20.70	
171360	Re-caning seat and back of chair with Contractor's plastic cane as per IS 5378	Each	113.59	
171370	Supply of boat with boatman on hire in day time up to 8 hours.(minimum capacity of the boat to be 6 adult men)	Each	814.79	
171380	Supply of boat with boatman on hire in night time upto 8 hours. (minimum capacity of the boat to be 6 adult men)	Each	1222.48	
171390	Double bamboo mat walling with split bamboo reepers average dia 7.5 cm on both sides, both ways at 45 cms centres including nails and erection complete	Sqm	154.11	

Item No.	Description of Item	Unit	Rate (Rs.)	Cement Qty.(qtl.)
171400	Supplying bullock cart on hire with 2 bullocks and one cartman per day of 8 Hours (Including all consumables etc.)	Each	693.03	
171410	Selection of suitable site for drilling bore well/tube well by electrical resistivity method for all diameters	Each	695.51	
171420	Supplying, fitting, fixing & installing including boring of 40 mm dia hand tube well assembly India Mark II having total depth of 50 metres with the following components as per IS:9301 : i) Hand pump (single acting) India mark - II galvanised as per IS : 9301 - 90. ii) Brass strainer mesh type made of long slotted medium B class G.I. pipes with 80-mesh brass wire net wrapping around the perforated pipe and jacketed by 26 / 28 SWG brass perforated sheet. 40 mm dia (2 lengths of each 1.83 m connected with G.I. socket). iii) C.I. cylinder with G.M. parts India mark - II 65 mm dia x 0.45 m long as per IS: 9301 - 90. iv) G.I. casing pipe 100 mm dia medium quality ISI marked 18 m long. contd...	Each	46729.06	
	contd..... v) G.I. pipe 40 mm dia medium quality ISI marked 28.35 m long. vi) 32 mm dia G.I. pipe (riser) medium quality ISI marked 17 m long. vii) 12 mm dia bright bar electro galvanised connecting rod, 3.0 m long each as per IS : 9301 of length as required. viii) all accessories as per IS: 9301 -90 such as G.I. reducing socket 100 mm x 40 mm, C.I. plug cutter 40 mm, base plate, M.S. nuts & bolts etc. The work also includes priming, development and testing of the yield (which should be sufficient enough) for seven days with all labour, material, tools and plants complete. ix) 40 mm dia G.I. ISI marked medium quality hanging pipe to the extent of 17 m. x) all accessories such as C.I. plug cutter 40 mm, base plate, M.S. nuts & bolts etc. as required . The work also includes priming & development and testing of the yield (which should be sufficient enough) for seven days with cost of labour and material, all tools and plants complete in all respect			
171430	Extra / Less for sinking including drilling, supplying, fitting, fixing & installing of G.I. casing pipe 100 mm dia medium ISI marked over 18 m	metre	822.98	
171440	Extra / Less for sinking, supplying, fitting, fixing & installing of G.I. riser pipe 32 mm dia medium ISI marked over 17 m	Each	317.50	

Item No.	Description of Item	Unit	Rate (Rs.)	Cement Qty.(qtl.)
171450	Supplying, boring, sinking & installation of 40 mm dia hand tube well pump assembly having total depth of 50 metres with the following components as per IS:9301 : i) Double guided head stroke / 80 mm x 40 mm deep tubewell hand pump No. 6 of complete. ii) Brass strainer mesh type "Dinco" or equivalent made of long slotted medium B class G.I. pipes with 80-mesh brass wire net wrapping around the perforated pipe and jacketed by 26 / 28 SWG brass perforated sheet. 40 mm dia- 2 lengths each of 1.83 m connected with G.I. socket. iii) All brass cylinder 65 mm dia 450 mm long with brass plunger, plunger rod socket, all brass poppet/lower valve bucket leather complete. iv) G.I. Casing pipe ISI marked 80 mm dia medium quality 18 m long. v) G.I. pipe ISI marked 40 mm dia medium quality 28.35 m long. vi) 80 mm x 40 mm dia G.I. Reducing socket of approved quality. vii) 12 mm dia bright bar electro galvanised connecting rod "Dinco" / "BJH" or equivalent, 3.0 m long each with G.I. coupling of length as required at site of work	Each	40770.68	
171460	Extra / Less for sinking including drilling, supplying, fitting, fixing & installing of G.I. casing pipe 80 mm dia medium ISI marked over 18 m	metre	607.11	
171470	Extra / Less for sinking including drilling, supplying, fitting, fixing & installing of G.I. riser pipe 40 mm dia medium ISI marked over 17 m	metre	393.11	
171480	Extra for providing Stainless Steel cylinder 65 mm dia. instead of all brass cylinder	Each	232.30	
171490	Supplying, Sinking & installation of 40 mm hand pump No.6 ordinary hand pump set comprising the following of approved quality complete assembly having depth of 30 M as per IS:9301. Hand pump No.6 with plunger, barrel, handle, head, piston rod, leather bucket, base, valve weight G.I. Screws, bolts & nuts as per IS : 1363/1967, leather seat valve, 40 mm dia C.I. Cutter with steel plug, 40 mm dia G.I. Sockets & 40 mm dia G.I. Pipe medium quality v) Brass strainer mesh type "Dinco" or equivalent made of long slotted medium B class G.I. pipes with 80-mesh brass wire net wrapping around the perforated pipe and jacketed by 26 / 28 SWG brass perforated sheet. 40 mm dia x 2 lengths each of 1.83 m connected with G.I. socket	Each	21255.33	
171500	Extra for providing the following type of strainer instead of Brass strainer mesh type			
171501	Brass jacketed strainer 40 mm dia x 1.83 m long	Each	1181.40	
171502	Low Carbon Galvanised (LCG) jacketed strainer 40 mm dia x 1.83 m long	Each	389.88	
171503	Stainless steel jacketed strainer 40 mm dia x 1.83 m long	Each	595.08	
171510	Supplying, fitting & fixing in position extra strainer 40 mm dia & 1.83 m long including drilling			

Item No.	Description of Item	Unit	Rate (Rs.)	Cement Qty.(qtl.)
171511	Brass jacketed strainer	Each	1456.28	
171512	Low Carbon Galvanised (LCG) jacketed strainer	Each	1060.52	
171513	Stainless steel jacketed strainer	Each	1163.11	
171514	Brass strainer mesh type	Each	517.71	
171520	Drilling of bore well for specified depth in all types of soil and rock mechanically with all contractor's tools, plants, material and labour up to 75 meters			
171521	For 150 mm dia	metre	205.70	
171522	For 200 mm dia	metre	432.37	
171523	For 250 mm dia	metre	518.84	
171524	Extra over 75m drilling for 150mm dia	metre	41.14	
171525	Extra over 75m drilling for 200mm dia	metre	86.47	
171526	Extra over 75m drilling for 250mm dia	metre	103.77	
171530	Providing supplying, lowering and fixing in bore G.I.B Class perforated casing pipe 6 mm thickness up to specified depth below ground level with all contractor's tools, plants, material and labour etc. complete			
171531	100 mm internal pipe	metre	902.65	
171532	150 mm internal pipe	metre	1164.02	
171533	200 mm internal pipe	metre	1432.33	
171540	Providing supplying, lowering and fixing in bore unperforated MS casing pipe 6 mm thickness up to specified depth below ground level with all contractor's tools, plants, material and labour etc. complete			
171541	100 mm internal pipe	metre	902.65	
171542	150 mm internal pipe	metre	1164.02	
171543	200 mm internal pipe	metre	1432.33	
171550	Extra for using slotted or perforated MS casing pipe			
171551	100 mm internal pipe	metre	60.75	
171552	150 mm internal pipe	metre	80.61	
171553	200 mm internal pipe	metre	100.47	
171560	Providing, supplying and fixing mild steel plug or screw cap of standard make on top of casing pipe on completed bore as directed by Engineer-In-Charge			
171561	100mm dia	Each	80.26	
171562	150mm dia	Each	116.27	
171563	200mm dia	Each	163.89	
171570	Extracting G.I. Pipe 40/32 mm dia including strainers and depositing the same to the stores			
171571	Upto 50 metre deep	metre	36.49	
171572	More than 50 metre deep	metre	56.70	
171580	Taking out hand tube well pump or hand pump including head, handle, plunger, G.I. hanging pipe, cylinder, connecting rod etc. and depositing the same in the stores	Each	668.87	
171590	Supplying & fixing sun control film of approved quality and make over door/window/clery storey window	Sqm	332.27	

Item No.	Description of Item	Unit	Rate (Rs.)	Cement Qty.(qtl.)
171600	Providing, driving and installing driven cast-in-situ reinforced cement concrete piles M 35 grade to carry safe working load not less than specified, including the cost of shoe and pile to be embedded in the pile cap as a complete job. Payment for steel reinforcement & cement will be made extra. Length of pile for payment shall be measured from top of shoe to the bottom of pile cap			
171601	400mm dia piles	metre	1626.26	0.537 or as per desgin mix
171602	450mm dia piles	metre	1958.21	0.681 or as per desgin mix
171603	500mm dia piles	metre	2313.64	0.840 or as per desgin mix
171604	550mm dia piles	metre	2392.05	1.017 or as per desgin mix
171610	Boring, providing and installing bored cast-in-situ reinforced cement concrete pile of all length M 35 grade to carry a safe working load not les than specified incl. cost of boring with bentonite solution and temporary casing of appropriate length for setting out and removal of same and pile to be embedded in the pile cap etc all incl. removal of excavated earth with all lifts and leads. Length of pile for payment shall be measured upto bottom of pile cap. Payment for steel reinforcement & cement will be made separately			
171611	300mm dia piles	metre	1283.19	0.302 or as per desgin mix
171612	400mm dia piles	metre	1134.07	0.537 or as per desgin mix
171613	450mm dia piles	metre	1481.48	0.681 or as per desgin mix
171614	500mmdia piles	metre	1687.02	0.840 or as per desgin mix
171615	600mm dia piles.	metre	2050.57	.1.209 or as per desgin mix
171620	Boring, providing and installing cast-in-situ single under reamed piles with bulb dia of 2.5 times the pile dia of any length in M 35 grade to carry a safe working load not less than specified including cost of boring with bentonite solution and pile to be embedded in pile cap etc all complete. Length of pile for payment shall be measured upto the bottom of pile cap. Payment for steel reinforcement & cement will be made separately			

Item No.	Description of Item	Unit	Rate (Rs.)	Cement Qty.(qtl.)
171621	300mm dia piles	metre	1751.03	0.333 or as per desgin mix
171622	400mm dia piles	metre	1771.81	0.633 or as per desgin mix
171623	450mm dia piles	metre	1778.08	0.816 or as per desgin mix
171624	550mm dia piles	metre	1783.58	1.207 or as per desgin mix
171630	Extra over item above for providing additional bulb in double under reamed piles (only the quantity of extra bulbs to be paid)			
171631	300mm dia piles	Each	1196.49	0.141
171632	400mm dia piles	Each	1208.34	0.270
171633	450mm dia piles	Each	1216.24	0.347
171634	550 mm dia piles	Each	1282.21	0.437
171640	Providing, driving and installing Pre-cast reinforced cement concrete piles of any length in M 35 grade to carry safe working load not less than specified with central through preformed hole with M.S. black pipe of dia 40mm for grouting with cement sand grouting of mix 1:2 (1cement: 2coarse sand) under sufficient positive pressure to ensure complete filling including centring, shuttering, driving and removing the steel casing pipe and lifting casing etc. complete Length of pile for payment shall be measured from to of the shoe to the bottom of pile cap. Payment for steel reinforcement & cement will be made separately. (piles to be casted at site)			
171641	400mm dia.	metre	1415.66	0.621
171642	450mm dia.	metre	1283.37	0.784
171643	500mm dia.	metre	1283.37	0.959
171644	550mm dia.	metre	1283.37	1.168
171650	Vertical load testing of piles in accordance with IS: 2911 (Part IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification and the direction of Engineer-in-Charge			
171651	Single pile upto 50 tonne capacity- initial test	Each Test	33460.88	
171652	Single pile upto 50 tonne capacity - routine test	Each Test	20219.78	
171653	Single pile above 50 tonne and upto 100 tonne capacity - initial test	Each Test	47282.73	
171654	Single pile above 50 tonne and upto 100 tonne capacity - routine test	Each Test	31244.35	
171660	Group of two or more piles (each pile capacity upto 50 tonne)			
171661	Initial test	Each Test	63311.43	

Item No.	Description of Item	Unit	Rate (Rs.)	Cement Qty.(qtl.)
171662	Routine test	Each Test	39278.06	
171670	Cyclic vertical load testing of pile in accordance with IS Code of practice IS: 2911 (Part IV) including preparation of pile head etc. for.			
171671	Single pile upto 50 tonne capacity	Each Test	20219.78	
171672	Single pile above 50 tonne and upto 100 tonne capacity	Each Test	31244.35	
171673	Group of two or more piles (each pile capacity upto 50 tonne)	Each Test	39278.06	
171680	Lateral load testing of single pile in accordance with I.S. Code of practice IS: 2911 (Part IV) for determining safe allowable lateral load on pile			
171681	Vertical load capacity upto 50 MT	Each Test	20219.78	
171682	Vertical load capacity above 50 tonne and upto 100 tonne	Each Test	32405.85	
171690	Providing & applying Pre-Construction Anti-Termite treatment to proposed structure, with application of Imidacloprid 30.5% SC @ 0.075% concentration mixed with water in ratio of 1:475, as per detailed specifications given in Indian Railways Standard Specifications, so as to create a chemical barrier below and around the structure by an approved agency. (Plinth Area/Basement floor area shall be considered for Payment)	Sqm	72.99	
171700	Post-construction anti-termite treatment to structures with application by trenching, drilling holes, injecting of Imidacloprid 30.5% SC @ 0.075% concentration mixed with water in ratio 1:475 alongwith spraying of woodwork with termiseal (oil based approved termiticide), as detailed in Indian Railways Standard Specifications, so as to create a chemical barrier below and around the structure by an approved professional agency. (Built-up area shall be considered for payment)	Sqm	62.66	
171710	Providing Rodent Management Service to colonies/stations/ offices/yards/rest house etc. by application of Bromadiolone Bait and closing of burrows alongwith monitoring fortnightly for one year, as per specifications given in Indian Railways Standard Specifications complete job including placing of rodent bait station boxes, traps etc. and removal of dead/trapped rodents. (The payment shall be released in twelve equal installments)	Sqm	7.79	

Item No.	Description of Item	Unit	Rate (Rs.)	Cement Qty.(qtl.)
171720	Providing general pest control service in colonies, offices, rest houses etc. to eliminate cockroaches, red and black ants, silver fish by applying cockroach gel (pyrethrum extract) and Deltamethrin Chemical repeated quarterly for one year as per specifications mentioned in Indian Railways Standard Specifications. (Payment to be released in four quarterly installments)	Sqm	50.98	
172010	Supplying and applying leak proof polygrout to stop oozing water, with the help of NBMs threaded nozzles complete job including fixing of nozzles, injecting polygrout and sealing of nozzles with the help of sealing compound	Each	911.02	
172020	Supplying, erecting and fixing precast concrete reinforced bench with back rest. Bench shall consist of 2 nos. L shaped base support in natural cement colour of thickness 100 mm, back height 1000 mm, front height 450 mm, base width 620 mm and 5 nos. reinforced concrete planks in red colour and size of 1500 x 100 x 50mm and 1 no. reinforced concrete plank of 150 x 200 x 50mm; manufactured by using M-30 grade concrete & reinforced suitably; all parts to be joined with galvanised nuts and bolts of suitable size. All bolts to be sealed after assembly. Complete job to be done as per directions of Engineer Incharge	Each	8602.49	
172030	Providing and fixing glazed or unglazed full body homogenous anti-algal, all weather resistant ceramic landscaping/facia vitrified tiles (Cladding), conforming to tests as per IS:4457-2007, having water absorption < 0.5%, having sizes as 300mm x 300mm x 8mm, 200mm x 400mm x 9mm, 400mm x 400mm x 9mm and 300mm x 600mm x 10mm & 240mm x 60mm x 7.3mm in approved shade, colour & quality. Tiles to be laid on 20 mm average thick cement mortar bed of 1:4 (1 cement : 4 coarse sand) and joints filled with polymer based cementitious grout with all labour, material complete job	Sqm	957.80	0.087
172040	Fabricating, supplying and installing stainless steel 3/4 seater benches with or without back rest of size and shape as per design and drawing approved by Engineer Incharge. Bench shall be manufactured from stainless steel 304 Grade with perforation made with turret punching machine and rolled on roller machine. Steel to be either laser cut or water jet cut (no shearing). Polishing to be done with automatic polishing machines to give mirror polish. All parts to be connected with suitable CNC made connectors and counter sunk screws etc. .. Contd. --	Kg	584.24	

Item No.	Description of Item	Unit	Rate (Rs.)	Cement Qty.(qtl.)
	.. Contd. --Welding to be done with suitable SS 304 Grade welding rods and treated with K-2 solution. Joints shall be finished ensuring that no welding marks are visible. Fixing at site should be done with suitable SS base plate and dash fasteners. Manufacturer shall submit maintenance manual and basic material test report for grade certification.			
172050	Extra over item 172040 for using SS 316 Grade stainless steel (to be used in corrosive coastal areas) instead of SS 304 Grade	Kg	98.73	
	New Items To Be Added By Zonal Railways			
173010				
173020				
173030				
173040				
173050				