

CIVIL AND STRUCTURAL WORKS CONTRACT FOR MISCELLANEOUS CIVIL WORKS IN PLANT & TOWNSHIP AREA, RFCL RAMAGUNDAM UNDER PHASE-I SCHEME.

Item No	DESCRIPTION OF ITEM	UNIT	Estimated Quantity	Rate Excluding GST & Cess	Rate including Cess but excluding GST	Total amount excluding GST but including cess
	PLASTERING & POINTING					
1	Providing plain cement plaster in cement mortar (1 cement:4/6 fine sand by volume) on masonry, PCC/ RCC including preparation of base, finishing, curing etc; also including providing 20 gauge chicken wire mesh stretched tight at all RCC/ PCC and masonry meeting points in 300mm wide strips (150mm on each surface) fixed with G.I. "U" type nails before plastering					
1 (a)	Ordinary plain cement plaster Average 15mm thick 1:4 (1 cement: 4 sand). Cement supplied by the Contractor at their cost. _	Sqm	400	310	310	124000
1 (b)	Ordinary plain cement plaster Average 12mm thick 1:4 (1 cement: 4 sand). Cement supplied by the Contractor at their cost. _	Sqm	400	270	270	108000
	Roofing					
2	Providing and laying in position approved quality profiled, pre-coated, steel sheets (for roofing, cladding etc.) made from cold rolled high tensile Zincalume/ Galvalume Steel of 550 MPA yield stress conforming to IS:513, IS:15961 and ASTM AS: 1397; the substrate shall be hot dip metallic coating of aluminium- zinc alloy (150 grams per sq. mtr. Total on both sides, coating class AZ150); the bottom unexposed surface shall be provided with alkyl backer of minimum 5 microns over a 5 micron coat of primer; top exposed surface shall have SDP (Super Durable Polyester) paint system MINIMUM 20 microns in approved shade applied over 5 microns primer; overall coated thickness of sheets not less than 0.52 mm having base metal thickness of minimum 0.45mm (negative tolerance not acceptable), profile depth not less than 28mm and pitch of 195 to 255mm; including cutting, mitering, laps, providing cut-outs for fixing accessories, necessary fasteners (approved quality anti corrosive polyester polymer coated, rivets, nuts, bolts, self-drilling screws/ fasteners with integral washers and EPDM seals, and nylon colour caps and natural cure type joint sealants etc.) All complete as per approved manufacturer's specifications.	Sqm	250	1030	1030	257500
	Note: The steel sheet shall have brand marking of coated steel manufacturer (product details, date, mfg name, etc) on back side at regular interval confirming genuinity of the material.					
3	Providing and fixing rain water pipes with M.S. holder clamps including fixing/embedding into masonry/concrete, providing connections like shoes, vents, specials, bends etc. fixing in perfect plumb etc. all complete.					
3 (a)	110mm dia O.D. Size. exposed PVC rain water pipe jointed with bonding solution of approved quality and make with pressure rating of 4kg/cm ² including clamps, connections etc. all as per approved manufacturer's details.	RM	30	436	436	13080

CIVIL AND STRUCTURAL WORKS CONTRACT FOR MISCELLANEOUS CIVIL WORKS IN PLANT & TOWNSHIP AREA, RFCL RAMAGUNDAM UNDER PHASE-I SCHEME.

Item No	DESCRIPTION OF ITEM	UNIT	Estimated Quantity	Rate Excluding GST & Cess	Rate including Cess but excluding GST	Total amount excluding GST but including cess
3 (b)	160mm dia O.D. Size. exposed PVC rain water pipe jointed with bonding solution of approved quality and make with pressure rating of 4kg/cm ² including clamps, connections etc. all as per approved manufacturer's details.	RM	30	698	698	20940
	Road and flexible pavement					
4	Supplying and Laying of Wet Mix Macadam (WMM) in sub-base/ base course using tough, clean, sound & durable stone aggregates including premixing the material (mixing in Plug Mill/ Pan Type Mixer), including transportation to site, laying & spreading in layers not exceeding 200 mm compacted thickness & rolling with vibratory roller 80-100 KN static weight or equivalent capacity to proper grade, camber & level with all leads & lifts etc. complete as per drawing, specifications (EIL Specification 6-65-0014) & directions of Engineer-in-Charge.	cum	500	2820	2820	1410000
5	Providing and laying 25mm thick bitumen carpet including heating bitumen, mixing stone chips, grit, laying to proper grade and camber including preparation of surface, filling pot holes with premix chips, rolling premix carpet with 8 to 10 ton road roller, providing and rolling seal coat for low rainfall areas to (under 150 cm/year) proper grade and camber spreading sand over finished surfaces including brushing and clearing WBM surfaces spraying tack coat of bitumen, etc. complete including providing and running road roller etc. all as per drawings, specifications and directions of Engineer-in-Charge.	Sqm	1200	370	370	444000
6	Providing and Laying of bituminous macadam of 50mm compacted thickness as per IRC-27, including preparation of underlying course, application of tack coats, preparation of premix, spreading, rolling etc. complete as per drawings, specifications and directions of Engineer -in-Charge. Grade of bitumen as binder and for tack coat shall be as per IRC-37 for following climate conditions					
	Hot	Sqm	1200	630	630	756000
	RCC pavement					0
7	Providing and laying Reinforced cement concrete with 20mm and down size graded crushed stone aggregates in flooring, pavements etc. including leaving pockets, if necessary, making recess/drains, laying in alternate panels, etc. for all depths including shuttering, tamping, curing, etc. as specified in any shape, thickness, position and finishing the top surface smooth etc. all complete as per drawings, specifications and directions of Engineer-in-Charge (excluding cost of providing and fixing reinforcement & joint sealing). (all materials including cement but excluding cost of providing & fixing reinforcement and joint sealing shall be supplied by the contractor).					
7(a)	For RCC of M-30 grade concrete	cum	120	7600	7600	912000

CIVIL AND STRUCTURAL WORKS CONTRACT FOR MISCELLANEOUS CIVIL WORKS IN PLANT & TOWNSHIP AREA, RFCL RAMAGUNDAM UNDER PHASE-I SCHEME.

Item No	DESCRIPTION OF ITEM	UNIT	Estimated Quantity	Rate Excluding GST & Cess	Rate including Cess but excluding GST	Total amount excluding GST but including cess
7(b)	For RCC of M-25 grade concrete	cum	220	7440	7440	1636800
	Expansion joints					
8	Providing 20mm wide Expansion Joints in pavement, slabs as per standard specification including cleaning the joints of all loose material, filling with 20mm thick impregnated fibre boards for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved Joint Sealing Compound as per IS: 1834 Type-B etc. all complete as per drawings, specifications and directions of Engineer-in-Charge.					
8 (a)	For type-II pavement (Upto and inclusive of thickness of 150 mm).	RM	600	257	257	154200
8 (b)	For type-III pavement (Upto and inclusive of thickness of 100 mm).	RM	600	200	200	120000
9	Supplying and laying in position PVC pipes conforming to IS:4985 Class – I for cable crossings, including cutting the pipe if necessary, lowering, laying in position to proper levels, slopes ,providing proper jointing as per code requirements or manufacturers recommendations, sealing the open ends of pipes with gunny bags etc. all complete as per drawings, specifications and directions.					0
	For following NOMINAL OUTSIDE PIPE DIA (MM)					0
9 (a)	Dia (outer) -100/110 mm Piping Material Class –I	RM	60	436	436	26160
9 (b)	Dia (outer) -160 mm Piping Material Class -I	RM	60	698	698	41880
	U/G AND A/G G.I. PIPELINE SYSTEM - WATER SERVICES					
10	Supplying and laying mild steel galvanised pipes conforming to IS:1239 (heavy grade) and fittings conforming to IS:1239/ ASTM A105 (Galvanised) and as per piping materials specification Class including supply of Teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, earthwork in excavation for trenches, valve pits, etc. in all types of soil excluding soft and hard rock including laying of pipes in trenches, joining the pipes and fittings with threaded connections, hydrostatic testing of the piping, backfilling the trenches with selected/approved earth fill material, cutting of roads wherever required, making good the road surface after laying, disposal of surplus earth within a lead of 500 m, etc. including supply of necessary fittings etc. complete as per specifications, drawings and directions of Engineer-in-Charge. For following Nom.Size in mm.					
10 (a)	(Nom. Dia – 100 mm Pipe class J2A)	M	30	2779	2779	83370
10 (b)	(Nom. Dia – 80 mm Pipe class J2A)	M	30	1880	1880	56400
10 (c)	(Nom. Dia – 50 mm Pipe class J2A)	M	30	1319	1319	39570
10 (d)	(Nom. Dia – 40 mm Pipe class J2A)	M	6	981	981	5886
10 (e)	(Nom. Dia – 32 mm Pipe class J2A)	M	6	839	839	5034
10 (f)	(Nom. Dia – 25 mm Pipe class J2A)	M	6	665	665	3990

CIVIL AND STRUCTURAL WORKS CONTRACT FOR MISCELLANEOUS CIVIL WORKS IN PLANT & TOWNSHIP AREA, RFCL RAMAGUNDAM UNDER PHASE-I SCHEME.

Item No	DESCRIPTION OF ITEM	UNIT	Estimated Quantity	Rate Excluding GST & Cess	Rate including Cess but excluding GST	Total amount excluding GST but including cess
11	Supplying and laying above ground mild steel galvanised pipes conforming to IS: 1239 (heavy grade) and fittings conforming to IS:1239/ASTM A 105 (GALVANISED) and as per piping materials specification Class including supply of Teflon tapes, white lead, etc. cutting the pipes to required lengths, making threads, including laying of pipes on sleeper, walls, including erecting piping on columns, etc. for pump station, overhead tanks, etc. including joining the pipes and fittings with threaded connections, hydrostatic testing of the piping including supply of necessary fittings etc & pipe supports. complete as per specifications, drawings and instructions of Engineer-in- Charge. For following Nom. Size in mm and piping class.					
11 (a)	(Nom. Dia – 40 mm Pipe class J2A)	M	30	817	817	24510
11 (b)	(Nom. Dia – 32 mm Pipe class J2A)	M	30	698	698	20940
11(c)	(Nom. Dia – 25 mm Pipe class J2A)	M	30	545	545	16350
12	Supply and installation of valve assembly consisting of valve, 2 no. flanges, 2 no. gaskets and 2 sets of nuts & bolts per valve assembly in position including fixing of nuts, bolts, gaskets, washers etc. complete as per drawings, specifications and directions of Engineer-in-Charge.					
	Gate valve assembly for following nominal sizes					
12 (a)	(Dia – 6 Inch Piping Material Class – J2A)	Each	4	22800	22800	91200
12 (b)	(Dia – 4 Inch Piping Material Class – J2A)	Each	4	16150	16150	64600
12(c)	(Dia – 3 Inch Piping Material Class – J2A)	Each	2	11880	11880	23760
12 (d)	(Dia – 2 Inch Piping Material Class - J2A)	Each	2	7600	7600	15200
12(e)	(Dia – 1.5 Inch Piping Material Class - J2A)	Each	1	5510	5510	5510
12 (f)	(Dia – 1 Inch Piping Material Class - J2A)	Each	1	3800	3800	3800
	MISC. CIVIL AND STRUCTURAL WORKS FOR U/G PIPING AND OTHER CIVIL WORKS-brick/block work					
13	Providing and laying brick masonry with locally available bricks of specified class (Brick of class lower than specified shall not be accepted) in cement mortar 1:4 (1 cement: 4 Coarse sand) in one or more brick thickness and in any shape in foundation and plinth for valve pits, drains, circular/square maholes, wing walls, etc. including providing recesses, openings, etc. including curing, finishing the joints flush below ground level and raking out joints in plinth with all labour and material, etc. complete as per drawings, specifications and direction of Engineer-in-Charge.					
	All materials including cement supplied by the Contractor and. Brick Class -5)	Cum	100	6256	6256	625600
14	Providing 13mm thick average cement plaster in cement mortar 1:3 (1 cement: 3 sand) on brick walls/stone masonry/pitching or on concrete surfaces for manholes, valves pits, culverts, wing walls, etc. including cleaning and preparation of the surface, scaffolding, curing etc. for all depths and heights complete as per drawings specifications					

CIVIL AND STRUCTURAL WORKS CONTRACT FOR MISCELLANEOUS CIVIL WORKS IN PLANT & TOWNSHIP AREA, RFCL RAMAGUNDAM UNDER PHASE-I SCHEME.

Item No	DESCRIPTION OF ITEM	UNIT	Estimated Quantity	Rate Excluding GST & Cess	Rate including Cess but excluding GST	Total amount excluding GST but including cess
	and direction of Engineer-in-Charge.					
	All materials including cement supplied by the Contractor.	Sqm	10	290	290	2900
	UNDERGROUND SEWER SYSTEM - RCC PIPES					
15	Supplying & laying underground RCC pipes sewers with socket and spigot ends conforming to IS: 458, of approved make, to proper grade and alignment, including earthwork in excavation in all types of soil including soft rock but excluding hard rock which shall be paid separately for pipe trenches, etc. including dewatering, shoring and strutting if necessary, dressing of sides, leveling, grading and ramming of bottoms, cutting the R.C.C. pipes to required lengths, lowering the pipe, jointing , including connecting pipes to manholes and grouting the pipe body with manhole wall using cement mortar 1:2 (1 cement : 2 sand), curing of joints, testing, draining of water, cleaning of pipe after testing, backfilling the trenches with select material from available excavated soil including re excavating the deposited soil excavated earlier breaking clods and laying in layers of 15cm compacted thickness , watering and compacting with mechanical means like vibro rammers etc. making good the surface, including cutting of roads wherever required and making good the same, disposal of surplus earth/ unserviceable material to demarcated area anywhere within the complex limit etc. complete for all depths as per drawings, specifications and instructions of Engineer-in-Charge (All material shall be supplied by contractor). For following Pipe size (mm) and Class (The following pipe sizes are all internal diameter of the pipes)					
15 (a)	(Dia (Internal) – 150 mm Piping Material Class –P1)	RM	15	687	687	10305
15 (b)	(Dia (Internal) – 250 mm Piping Material Class – P1)	RM	15	1144	1144	17160
	RCC PIPE CULVERTS & ELECTRICAL ROAD CROSSINGS ETC.					
16	Providing and laying Non Pressure NP-3 class (Medium duty) R.C.C. pipes including collars/spigot jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete for all depths as per drawings, specifications and instructions of Engineer-in-Charge (All material shall be supplied by contractor). For following Pipe size (mm)complete					
16 (a)	450 mm dia RCC pipes.	RM	15	2070.92	2091.63	31374.45
16 (b)	600 mm dia RCC pipes.	RM	15	2649.13	2675.62	40134.3

CIVIL AND STRUCTURAL WORKS CONTRACT FOR MISCELLANEOUS CIVIL WORKS IN PLANT & TOWNSHIP AREA, RFCL RAMAGUNDAM UNDER PHASE-I SCHEME.

Item No	DESCRIPTION OF ITEM	UNIT	Estimated Quantity	Rate Excluding GST & Cess	Rate including Cess but excluding GST	Total amount excluding GST but including cess
	PCC/RR pitching/lining					
17	Supplying and laying with cement concrete lining of M-20 grade with 20mm and down size graded stone aggregates in reservoir, channels, etc, including preparation of sub-grade, disposal of surplus earth/ unserviceable material within plant boundary limit as directed, laying concrete, leaving pockets, making drains, laying in alternate panels, shuttering the edges, curing, finishing the top surface smooth including complete cost of taking and testing concrete cubes , including dewatering of accumulated water from any source and keeping the surface dry for subsequent works etc. complete as per drawings, specifications and directions of Engineer-in- Charge.					
17 (a)	For lining thickness of 150 mm on horizontal surface (All material including cement supplied by the contractor) _	Sqm	100	1050	1050	105000
17 (b)	For lining thickness of 150 mm on sloped/curved surface (All material including cement supplied by the contractor) _	Sqm	150	1154	1154	173100
18	Supplying & laying random rubble pitching 200-300 mm thick in 1:4 cement mortar (1 cement: 4 coarse sand) in one layer for embankments, road side slopes, holding ponds bunds, drains, channels or at any other place as directed including cost of stones, all royalties & taxes, transportation to site with all leads and lifts, including providing recesses, opening, scaffolding, staging, raking out joint , curing, dressing, preparation of sub grade for pitching, flush pointing in 1:3 cement mortar (1 cement: 3 sand), curing and leaving weep holes including filling of the weep holes by gravel etc. complete as per drawings, specifications and directions of Engineer-in-Charge.					
	On sloped surfaces (All materials including cement supplied by contractor)	cum	50	4728	4728	236400
19	Laying of Random Rubble Masonry in Cement Mortar 1:4 (1 cement: 4 coarse sand) in any shape and thickness for embankment road side slope, holding pond bunds, compound wall, toe walls, drains, or at any other places as directed including cost of stones, all royalties and taxes, transportation to site with all leads and lifts, including providing recesses, openings, scaffolding, staging, raking out joints, curing, dressing etc. Flush pointing in 1:3 cement mortar (1 Cement:3 Sand), curing and leaving weep holes including gravel filter media behind weep hole complete as per drawings, specification and direction of Engineer-in-Charge. (all material including cement supplied by contractor).	Cum	50	4623	4623	231150

CIVIL AND STRUCTURAL WORKS CONTRACT FOR MISCELLANEOUS CIVIL WORKS IN PLANT & TOWNSHIP AREA, RFCL RAMAGUNDAM UNDER PHASE-I SCHEME.

Item No	DESCRIPTION OF ITEM	UNIT	Estimated Quantity	Rate Excluding GST & Cess	Rate including Cess but excluding GST	Total amount excluding GST but including cess
	Earth Work in Excavation					
20	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within plant/township boundary limit, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	Cum	350	240	240	84000
21	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth beyond 1.5m and upto and inclusive of 3.0m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within plant/township boundary limit, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	Cum	50	280	280	14000
22	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps within a LEAD OF 100M, including re- excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. consolidating each deposited layer by ramming and watering by manual methods/ mechanical compactors, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	Cum	200	200	200	40000
23	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps beyond a LEAD OF 100M AND anywhere within plant/township boundary as directed, including re- excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/mechanical compactors, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	Cum	50	240	240	12000

CIVIL AND STRUCTURAL WORKS CONTRACT FOR MISCELLANEOUS CIVIL WORKS IN PLANT & TOWNSHIP AREA, RFCL RAMAGUNDAM UNDER PHASE-I SCHEME.

Item No	DESCRIPTION OF ITEM	UNIT	Estimated Quantity	Rate Excluding GST & Cess	Rate including Cess but excluding GST	Total amount excluding GST but including cess
24	Transporting and disposing the SURPLUS EARTH AND DEBRIS including shrubs and vegetations from construction area beyond the initial LEAD OF 100M AND anywhere WITHIN BOUNDARY as directed, including re-excavating the deposited soil excavated earlier, transportation, loading, unloading, laying at all depths and heights, stacking, levelling and dressing both the area (viz. from where the earth is transported and where it is deposited) to required levels and slopes complete with all lifts as directed. For carting on the basis of truck measurements (volume of truck reduced by 30% for voids).	Cum	300	231	231	69300
	Plain and Reinforced cement concrete					0
25	Providing and laying PLAIN CEMENT CONCRETE for all depths below and upto plinth level in foundations, drains, fillings, non-suspended floors, pavements & ramps or any other works etc. including shuttering, tamping, ramming, vibrating, curing etc. all as specified in any shape, position, thickness and finishing the top surface rough or smooth as specified and directed all complete for concrete of nominal mix 1:5:10 by mass (1 Cement: 5 Coarse Sand: 10 Crushed Stone Aggregates/Gravels) with 40mm and down size graded crushed stone aggregates/Gravels. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR._	Cum	150	4720	4720	708000
26	Providing and laying PLAIN CEMENT CONCRETE for all depths below and upto plinth level in foundations, drains, fillings, non-suspended floors, pavements & ramps or any other works etc. including shuttering, tamping, ramming, vibrating, curing, etc. all as specified in any shape, position, thickness and finishing the top surface rough or smooth as specified and directed all complete for concrete grade M20 with 20mm and down size graded crushed stone aggregates/Gravels. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR._	cum	100	6190.00	6190	619000

CIVIL AND STRUCTURAL WORKS CONTRACT FOR MISCELLANEOUS CIVIL WORKS IN PLANT & TOWNSHIP AREA, RFCL RAMAGUNDAM UNDER PHASE-I SCHEME.

Item No	DESCRIPTION OF ITEM	UNIT	Estimated Quantity	Rate Excluding GST & Cess	Rate including Cess but excluding GST	Total amount excluding GST but including cess
27	Providing and laying REINFORCED CEMENT CONCRETE OF M-25 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUB-STRUCTURE e.g. foundations, raft, beams, slabs, pile caps, retaining walls, dyke walls, jambs, counterforts, buttresses, pedestals, pipe sleepers, columns, suspended floors, staircases, landings, steps, brackets etc., including equipment/ machine foundations & pedestals viz. compressors, ID & FD fans, pumps, generators, crushers, mills, etc., (including single pour concreting as specified on the drawing), applying cement wash on concrete surface (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering, etc., wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT, SHUTTERING & SPECIFIED ADMIXTURES) for all depths below and upto plinth level in any shape, position and thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	cum	100	7440.00	7440	744000
28	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUB-STRUCTURE e.g. foundations, raft, beams, slabs, retaining walls, dyke walls, jambs, counterforts, buttresses, pedestals, pipe sleepers, columns, suspended floors, trenches, culverts, manholes, pipe encasement, catch pits, drains, pits, etc., including equipment/ machine foundations & pedestals etc., applying cement wash on concrete surface (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering, etc., wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT, SHUTTERING & SPECIFIED ADMIXTURES) for all depths below and upto plinth level ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	Cum	20	7980.00	7980	159600

CIVIL AND STRUCTURAL WORKS CONTRACT FOR MISCELLANEOUS CIVIL WORKS IN PLANT & TOWNSHIP AREA, RFCL RAMAGUNDAM UNDER PHASE-I SCHEME.

Item No	DESCRIPTION OF ITEM	UNIT	Estimated Quantity	Rate Excluding GST & Cess	Rate including Cess but excluding GST	Total amount excluding GST but including cess
29	Providing and laying REINFORCED CEMENT CONCRETE OF M-25 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUPER STRUCTURE in suspended floors, slabs, beams, columns, walls including counterforts, staircases, landings, steps, facias, fins, mouldings, gutters, shelves, window sills, canopies, lintels, girders, ducts, brackets, chajjas with drip moulds, pedestals, posts, struts, equipment/ machine foundations, ramps etc. providing cement wash (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT, SHUTTERING AND SPECIFIED ADMIXTURES) FOR ALL HEIGHTS UPTO & INCLUSIVE OF 20 m ABOVE PLINTH LEVEL in any shape, position, thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	Cum	20	8100.00	8100	162000
30	Manufacturing, transporting, supplying and erecting in position Reinforced Cement Concrete PRECAST ELEMENTS such as columns, beams, cover slabs, lintels, louvers, fins, shelves etc. of M-25 grade with 20mm and down size graded crushed stone aggregates/gravel, each unit upto and inclusive of 500 kg. for all leads, levels, shapes and thickness including all moulds shuttering and centering, vibrating, tamping, curing, chamfering wherever required, finishing the top surface with cement mortar 1:3 (1 Cement : 3 Sand) to give a smooth and even surface, or non skid finish as specified, providing lifting hooks, metal inserts, making holes pockets, (only M.S. inserts to be measured & paid separately) transporting to site, erecting, levelling, aligning and fixing in position with cement mortar 1:3 (Cement : 3 Coarse Sand), breaking bricks and/or concrete surfaces and making good the same etc. all complete (excluding the Cost of Reinforcement) and as directed. All materials including cement supplied by the contractor.	cum	30	15090.00	15090	452700

CIVIL AND STRUCTURAL WORKS CONTRACT FOR MISCELLANEOUS CIVIL WORKS IN PLANT & TOWNSHIP AREA, RFCL RAMAGUNDAM UNDER PHASE-I SCHEME.

Item No	DESCRIPTION OF ITEM	UNIT	Estimated Quantity	Rate Excluding GST & Cess	Rate including Cess but excluding GST	Total amount excluding GST but including cess
31	Manufacturing, transporting, supplying and erecting in position Reinforced Cement Concrete PRECAST ELEMENTS such as columns, beams, cover slabs, lintels, louvers, fins, shelves etc. of M-25 grade with 20mm and down size graded crushed stone aggregates/gravel, each unit beyond 500 kg and upto and inclusive of 1000 kg for all leads, levels, shapes and thickness including all moulds shuttering and centering, vibrating, tamping, curing, chamfering wherever required, finishing the top surface with cement mortar 1:3 (1 Cement : 3 Sand) to give a smooth and even surface, or non skid finish as specified, providing lifting hooks, metal inserts, making holes pockets, (only M.S. inserts to be measured & paid separately) transporting to site, erecting, levelling, aligning and fixing in position with cement mortar 1:3 (Cement : 3 Coarse Sand), breaking bricks and/or concrete surfaces and making good the same etc. all complete (excluding the Cost of Reinforcement) and as directed.All materials including cement supplied by the contractor.	Cum	20	15170.00	15170	303400
32	Supplying and placing in position HIGH YEILD-STRENGTH DEFORMED STEEL BARS REINFORCEMENT of Grade Fe500D TMT conforming to IS:1786, for RCC work including transporting the Steel, straightening, cleaning, de-coiling, cutting, bending to required shapes and lengths as per details, binding with 18 SWG black soft annealed binding wire at every intersection, supplying and placing with proper cover blocks, supports, chairs, overlaps, welding, spacers, fan hooks etc. for all heights and depths etc. all complete as directed. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE.	MT	40	74290	74290	2971600
	Centering and Shuttering - Non FIM Items					
33	Providing and fixing CENTERING AND SHUTTERING in foundations, footings, raft beams, slabs, pile caps, retaining walls, jambs, counter-forts, buttresses, trenches, equipment/machine foundations, pedestals, abutments, pipe sleepers, columns, plinth beams, lintels, suspended slabs, beams, staircases, landings, steps, non-circular tunnels/bunkers/ silos/ shafts/ hoppers/liquid storage structures etc. for all depths below and upto & inclusive of plinth level including shuttering for single pour concreting, strutting, bracing, propping etc., keeping the same in position during concreting and removal of the same after specified period etc. for Straight/ Inclined Shuttering, keeping necessary provision for inserts, projecting dowels, anchor bolts or any other fixture etc. all complete and as specified and directed.	Sqm	1200	310.00	310	372000

CIVIL AND STRUCTURAL WORKS CONTRACT FOR MISCELLANEOUS CIVIL WORKS IN PLANT & TOWNSHIP AREA, RFCL RAMAGUNDAM UNDER PHASE-I SCHEME.

Item No	DESCRIPTION OF ITEM	UNIT	Estimated Quantity	Rate Excluding GST & Cess	Rate including Cess but excluding GST	Total amount excluding GST but including cess
34	Providing and fixing CENTERING AND SHUTTERING in superstructures in retaining walls, jambs, counter-forts, buttresses, equipment/machine foundations, abutments, columns, lintels, suspended slabs, beams, staircases, landings, steps, non-circular tunnels/ bunkers/ silos/ shafts/ hoppers/ liquid storage structures etc. for all heights above plinth level including shuttering for single pour concreting, strutting, bracing, propping etc., keeping the same in position during concreting and removal of the same after specified period etc. for Straight/ Inclined Shuttering, keeping necessary provision for inserts, projecting dowels, anchor bolts or any other fixture etc. all complete and as specified and directed._	Sqm	800	570.00	570	456000
	Expansion joints					0
35	Providing 20mm wide EXPANSION JOINTS in flooring and pavement slabs and ISOLATION JOINTS around equipment foundations/columns/ pedestal/ trenches etc. including cleaning the joints of all loose material, filling clean sand for the full depth of slab (upto and inclusive of 300 mm) except for 12mm depth from top and sealing the top 12mm with approved two part liquid polysulphide Sealing Compound as per IS: 12118 etc. all complete as shown, specified and directed._	M	50	514	514	25700
36	Supplying and sealing EXPANSION JOINTS 25 mm wide and 12mm deep at all locations and levels in Concrete Structures with approved two part liquid POLYSULPHIDE SEALING COMPOUND as per IS:12118 including raking of joints etc. all complete as shown, specified and directed.	RM	400	400	400	160000
37	Supplying and fixing rebars in already cast concrete, including drilling, cleaning hole with air blow-out & wire-brush and injecting odourless Chemical of approved make, packed in dual foil, with the help of dispenser into a hole of diameter and depth as per manufacture specification, at all levels & locations for high strength deformed steel reinforcement bars of dia. upto 16 mm of Grade Fe500D (conforming to IS:1786), DESIGNED FOR FULL TENSILE ANCHORAGE, including testing (as per manufacturer's recommendations), adjusting and making good any damage done to the structure etc. all complete as specified and directed. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE EXCLUDING REINFORCEMENT BARS.	each	70	116.45	117.61	8232.7
38	Providing, mixing and applying bonding coat of approved adhesive on chipped portion of RCC as per specifications and direction of Engineer-In-charge complete in all respect.					
	Epoxy bonding for bonding of fresh concrete and old concrete adhesive having coverage 2.20 sqm/kg of approved make	sqm	70	338.96	342.35	23727.2

CIVIL AND STRUCTURAL WORKS CONTRACT FOR MISCELLANEOUS CIVIL WORKS IN PLANT & TOWNSHIP AREA, RFCL RAMAGUNDAM UNDER PHASE-I SCHEME.

Item No	DESCRIPTION OF ITEM	UNIT	Estimated Quantity	Rate Excluding GST & Cess	Rate including Cess but excluding GST	Total amount excluding GST but including cess
	General Steel Works - Non FIM Items (Structural steel work, Painting, anchor fasteners, metal insert, chequered plates etc)					0
39	Supplying, transporting, storing, fabricating & erecting in position and testing/ examining bolted and/ or welded STRUCTURAL STEEL WORKS of Grade E250A / E250BR / E250B0 (confirming to per IS:2062) at all locations and levels (contractor has to arrange all lifting equipment/accessories for height up to and inclusive of 5 meter from HPP/FFL, whereas beyond 5 meter lifting equipment will be provided at free of cost with subjected to availability), including all built-up sections/ compound sections made out of rolled sections and/or plates/bent plates in all types of structural frameworks, floor beams, stairs, or any other structural items or accessories to support equipment's, piping, conveyor galleries, towers, masts, etc., cutting to required size, straightening/ bending if required, edge preparation, cleaning, preheating, bolting/ welding of joints, (including sealing the joints of box sections with continuous welding and plugging any open ends & holes of box sections), finishing edges by grinding, fixing in line and level with temporary staging & bracing and removal of the same after erection, grouting with Ordinary Grout or premix free flow Nonshrink Grout as specified, including preparation and submission of detailed fabrication drawings, and applying a priming coat of approved steel primer preparing the surface for painting SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE	MT	15	92500.00	92500.00	1387500
40	Supplying and applying COATING (Post-erection/ Field) of approved quality and shade as per Sl. No. 6.2 of Table 6.0 of EIL Specification No. A747-000-79-79-1-PLS-01 over the coat of shop primer already applied, including storage, surface preparation, degreasing, cleaning, drying, providing necessary arrangement for access, testing etc. including touching up of shop primer coat as per Sl. No. 5.1 of Table 5.0 of EIL Specification No. A747-000-79-79-1-PLS-01, for steel structures at all location & levels, all complete as specified, for OFFSITE (INLAND) areas. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE.(Unit rate based on Structural steel weight).	MT	15	8283	8283	124245

CIVIL AND STRUCTURAL WORKS CONTRACT FOR MISCELLANEOUS CIVIL WORKS IN PLANT & TOWNSHIP AREA, RFCL RAMAGUNDAM UNDER PHASE-I SCHEME.

Item No	DESCRIPTION OF ITEM	UNIT	Estimated Quantity	Rate Excluding GST & Cess	Rate including Cess but excluding GST	Total amount excluding GST but including cess
41	Supplying, fabricating, fixing and keeping in position at all levels and locations THREADED ANCHOR BOLTS of all diameters and nomenclature including nuts, washers, anchor plates, pipe sleeves etc. in foundations, columns, pedestals, slabs, beams, walls etc. or any other place as directed including handling & transporting, straightening if required, turning from relevant size M.S. rounds to required diameter, threading, welding, providing necessary templates and auxilliary dummy structures, if any, necessary tying and welding with reinforcement, adjustment of shuttering & reinforcement/any other fixture, greasing exposed metal surfaces, covering bolts and packing the sleeves with jute cloth etc. all complete as specified and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	MT	0.5	106806	106806	53403
42	Supplying, transporting, storing, fabricating and fixing in position M.S. METAL INSERT (with lugs) of any shape made out of flats, plates, rolled sections, pipes etc. providing necessary templates, staging, cutting, straightening, if required, bolting, welding as required and embedding in position on both Plain and Reinforced Cement concrete members inclusive of adjusting shuttering & reinforcement/ any other fixture, welding where necessary, tying and holding to correct level, line and position, any auxiliary dummy structures to support the heavy inserts, painting exposed surfaces with a coat of primer as per Job Specification A747-000-79-41-PLS-01 etc. all complete for all depths and heights as specified and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	MT	1	106806	106806	106806
43	Supplying, transporting, storing, fabricating, erecting in position and testing / examining at all locations and levels bolted and/or welded TUBULAR STEEL WORKS of all types using STEEL TUBES OF YST 240 GRADE CONFORMING TO IS:1161 in all types of trusses, girders, purlins, siderails, columns, runners, beams, ties, portals, frame work, bracings, brackets, sagrods etc. including all handling, straightening/bending if required, cutting to required size & shape, edge preparation, welding & bolting of joints, providing and fixing end caps and plugging holes, fixing in line and level with necessary temporary staging and removal of the same after erection, grouting with Ordinary Grout/premix free flow Non Shrink Grout as specified, preparation & submission of detailed fabrication drawings, applying a priming coat of approved steel primer all complete. SUPPLY OF ALL MATERIALS INCLUDING PLATES IN CONTRACTOR'S SCOPE.	MT	3	92500	92500	277500

CIVIL AND STRUCTURAL WORKS CONTRACT FOR MISCELLANEOUS CIVIL WORKS IN PLANT & TOWNSHIP AREA, RFCL RAMAGUNDAM UNDER PHASE-I SCHEME.

Item No	DESCRIPTION OF ITEM	UNIT	Estimated Quantity	Rate Excluding GST & Cess	Rate including Cess but excluding GST	Total amount excluding GST but including cess
44	Supplying, fabricating and erecting in position at all levels and locations bolted, screwed and/or welded M.S. CHEQUERED PLATES of any thickness in walkways, platforms, stair treads, any other place as directed etc. including cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fixing, welding, preparation and submission of fabrication drawings and preparing the surfaces for painting and applying shop primer as per EIL Specification No. 6-79-0020 (or Job Specification, wherever applicable) after fabrication etc. all complete as specified and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	MT	3	86042	86042	258126
	Hand Railing 1000mm - Non FIM Items_					
45	Supplying, fabricating and fixing in position at all locations 1000mm high INCLINED HAND RAILING (for staircases) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade M.S. Tubes conforming to IS:1239 including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, Shop primer as per Sl. No 6.2 of table no 6 of specification no A747-000-79-41-PLS-01, preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	M	50	1612	1612	80600
46	Supplying, fabricating and fixing in position at all locations 1000mm high HORIZONTAL HAND RAILING (for platforms, walkways, etc. or any other location as directed) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade MS Tubes conforming to IS:1239 and 100x5 MS Toe Plate conforming to IS:2062 (Grade BR), including straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, as per Sl. No 6.2 of table no 6 of specification no A747-000-79-41-PLS-01, preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	M	70	1827	1827	127890

CIVIL AND STRUCTURAL WORKS CONTRACT FOR MISCELLANEOUS CIVIL WORKS IN PLANT & TOWNSHIP AREA, RFCL RAMAGUNDAM UNDER PHASE-I SCHEME.

Item No	DESCRIPTION OF ITEM	UNIT	Estimated Quantity	Rate Excluding GST & Cess	Rate including Cess but excluding GST	Total amount excluding GST but including cess
	Mechanical Anchor fasteners - Non FIM Items					
47	Supplying, handling, transporting to site of work and fixing approved MECHANICAL ANCHOR FASTENERS M.S. bolts of Grade 5.8 or more, GALVANIZED with minimum thickness of 5 microns (approved for use in cracked concrete), of 16mm dia at specified positions on concrete floors, roofs, beams (sides and bottom), walls, columns etc. according to manufacturer's specifications including all accessories like nuts, washers etc. of required size, testing, necessary scaffolding, drilling of the holes in concrete surface with electric drill, cleaning of holes with air blowout & wire-brush, and making good any damage done to the structure etc. all complete for all heights, depths and locations as specified and directed.	Each	10	700	700	7000
48	Supplying, handling, transporting to site of work and fixing approved MECHANICAL ANCHOR FASTENERS M.S. bolts of Grade 5.8 or more, GALVANIZED with minimum thickness of 5 microns (approved for use in cracked concrete), of 20mm dia at specified positions on concrete floors, roofs, beams (sides and bottom), walls, columns etc. according to manufacturer's specifications including all accessories like nuts, washers etc. of required size, testing, necessary scaffolding, drilling of the holes in concrete surface with electric drill, cleaning of holes with air blowout & wire-brush, and making good any damage done to the structure etc. all complete for all heights, depths and locations as specified and directed.	Each	10	780	780	7800
49	Supplying, handling, transporting to site of work and fixing approved MECHANICAL ANCHOR FASTENERS M.S. bolts of Grade 5.8 or more, GALVANIZED with minimum thickness of 5 microns (approved for use in cracked concrete), of 24mm dia at specified positions on concrete floors, roofs, beams (sides and bottom), walls, columns etc. according to manufacturer's specifications including all accessories like nuts, washers etc. of required size, testing, necessary scaffolding, drilling of the holes in concrete surface with electric drill, cleaning of holes with air blowout & wire-brush, and making good any damage done to the structure etc. all complete for all heights, depths and locations as specified and directed.	Each	10	1050	1050	10500

CIVIL AND STRUCTURAL WORKS CONTRACT FOR MISCELLANEOUS CIVIL WORKS IN PLANT & TOWNSHIP AREA, RFCL RAMAGUNDAM UNDER PHASE-I SCHEME.

Item No	DESCRIPTION OF ITEM	UNIT	Estimated Quantity	Rate Excluding GST & Cess	Rate including Cess but excluding GST	Total amount excluding GST but including cess
	Chemical Anchor Fastener					
50	Supplying, handling, transporting to site of work and fixing approved CHEMICAL ANCHOR FASTENERS consisting of M.S. threaded rod of Grade 5.8, GALVANIZED with minimum thickness of 5 microns and chemical (approved for use in cracked concrete), packed in flexible chemical foil or dual foil type, to be used with the help of dispenser, of 12mm dia. At specified positions on concrete floors, roofs, beams (sides and bottom), walls, columns etc. according to manufacturer's specifications including all accessories like nuts, washers etc. of required size, testing, necessary scaffolding, drilling of the holes in concrete surface with electric drill, cleaning of holes with air blowout & wire-brush and making good any damage done to the structure etc. all complete for all heights, depths and locations as specified and directed.	Each	10	1480	1480	14800
51	Supplying, handling, transporting to site of work and fixing approved CHEMICAL ANCHOR FASTENERS consisting of M.S. threaded rod of Grade 5.8, GALVANIZED with minimum thickness of 5 microns and chemical (approved for use in cracked concrete), packed in flexible chemical foil or dual foil type, to be used with the help of dispenser, of 16mm dia. At specified positions on concrete floors, roofs, beams (sides and bottom), walls, columns etc. according to manufacturer's specifications including all accessories like nuts, washers etc. of required size., testing, necessary scaffolding, drilling of the holes in concrete surface with electric drill, cleaning of holes with air blowout & wire-brush and making good any damage done to the structure etc. all complete for all heights, depths and locations as specified and directed.	Each	10	1810	1810	18100
52	Supplying, handling, transporting to site of work and fixing approved CHEMICAL ANCHOR FASTENERS consisting of M.S. threaded rod of Grade 5.8, GALVANIZED with minimum thickness of 5 microns and chemical (approved for use in cracked concrete), packed in flexible chemical foil or dual foil type, to be used with the help of dispenser, of 20mm dia. At specified positions on concrete floors, roofs, beams (sides and bottom), walls, columns etc. according to manufacturer's specifications including all accessories like nuts, washers etc. of required size., testing, necessary scaffolding, drilling of the holes in concrete surface with electric drill, cleaning of holes with air blowout & wire-brush and making good any damage done to the structure etc. all complete for all heights, depths and locations as specified and directed.	Each	6	2240	2240	13440

CIVIL AND STRUCTURAL WORKS CONTRACT FOR MISCELLANEOUS CIVIL WORKS IN PLANT & TOWNSHIP AREA, RFCL RAMAGUNDAM UNDER PHASE-I SCHEME.

Item No	DESCRIPTION OF ITEM	UNIT	Estimated Quantity	Rate Excluding GST & Cess	Rate including Cess but excluding GST	Total amount excluding GST but including cess
53	Supplying, handling, transporting to site of work and fixing approved CHEMICAL ANCHOR FASTENERS consisting of M.S. threaded rod of Grade 5.8, GALVANIZED with minimum thickness of 5 microns and chemical (approved for use in cracked concrete), packed in flexible chemical foil or dual foil type, to be used with the help of dispenser, of 24mm dia. At specified positions on concrete floors, roofs, beams (sides and bottom), walls, columns etc. according to manufacturer's specifications including all accessories like nuts, washers etc. of required size., testing, necessary scaffolding, drilling of the holes in concrete surface with electric drill, cleaning of holes with air blowout & wire-brush and making good any damage done to the structure etc. all complete for all heights, depths and locations as specified and directed.	Each	6	2800	2800	16800
	BRICK MASONRY					
	CLASS 5.0 - Non FIM Items_					
54	Providing and laying (available) BRICK MASONRY WITH BRICKS OF CLASS 5.0 in cement mortar 1:6 (1 Cement : 6 Sand) in one or more brick thickness and in any shape (excluding circular/curved brick masonry) at all depths below plinth level including the cost of materials, labour, scaffolding/ staging, sampling & testing, soaking of bricks, cutting and laying of bricks, providing recesses, making openings of any shape & size, finishing the joints flush below ground level and raking out the joints above ground level, sealing the gap between masonry and soffit of beam/slab, embedding the fittings & fixtures, curing, etc. all complete as per specifications. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR._	Cum	10	5980	5980	59800
55	Providing and laying (available) BRICK MASONRY WITH BRICKS OF CLASS 5.0 in cement mortar 1:6 (1 Cement : 6 Sand) in one or more brick thickness and in any shape (excluding circular/curved brick masonry) at all heights above plinth level including the cost of materials, labour, scaffolding/ staging, sampling & testing, soaking of bricks, cutting and laying of bricks, providing recesses, making openings of any shape & size, finishing the joints flush below ground level and raking out the joints above ground level, sealing the gap between masonry and soffit of beam/slab, embedding the fittings & fixtures, curing, etc. all complete as per specifications. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR._	Cum	5	6470	6470	32350

CIVIL AND STRUCTURAL WORKS CONTRACT FOR MISCELLANEOUS CIVIL WORKS IN PLANT & TOWNSHIP AREA, RFCL RAMAGUNDAM UNDER PHASE-I SCHEME.

Item No	DESCRIPTION OF ITEM	UNIT	Estimated Quantity	Rate Excluding GST & Cess	Rate including Cess but excluding GST	Total amount excluding GST but including cess
56	Providing and laying (available) HALF BRICK MASONRY with bricks of CLASS 5.0 in cement mortar 1:4 (1 Cement: 4 Sand)in any shape, including the cost of materials, labour, scaffolding/staging, sampling and testing, soaking of bricks, cutting and laying of bricks, providing openings of any shape & size, raking out the joints, supplying and placing 2 Nos. 6mm dia. M.S. Bars at every fourth course, sealing the gap between masonry and soffit of beam/slab, embedding the fittings and fixtures, curing etc. all complete as per specification. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY CONTRACTOR._	Sqm	5	744	744	3720
	STONE MASONRY ,Random - Non FIM Items_					
57	Providing and laying RANDOM STONE MASONRY in cement mortar 1:6 (1 Cement: 6 Sand) in any shape and thickness at all depths below plinth level including the cost of materials, labour, scaffolding/staging, sampling and testing, dressing and wetting of stones , providing recesses, openings, sealing the gap between masonry and soffit of beam/ slab, embedding the fittings and fixtures, raking out the joints, curing etc. all complete as specified. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	Cum	10	4760	4760	47600
58	Providing and laying RANDOM STONE MASONRY in cement mortar 1:6 (1 Cement : 6 Sand) in any shape and thickness at all heights above plinth level including the cost of materials, labour, scaffolding/staging, sampling and testing, dressing and wetting of stones , providing recesses, openings, sealing the gap between masonry and soffit of beam/ slab, embedding the fittings and fixtures, raking out the joints, curing etc. all complete as specified. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR._	Cum	5	5530	5530	27650
	DEMOLISHING AND DISMANTLING					0
	Brickwork - Non FIM Items					0
59	Demolishing BRICKWORK (taking all necessary safety precautions) for all depths below plinth level including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items)._	Cum	5	1320	1320	6600
60	Demolishing BRICKWORK (taking all necessary safety precautions) for all heights above plinth level including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed._	Cum	5	1430	1430	7150

CIVIL AND STRUCTURAL WORKS CONTRACT FOR MISCELLANEOUS CIVIL WORKS IN PLANT & TOWNSHIP AREA, RFCL RAMAGUNDAM UNDER PHASE-I SCHEME.

Item No	DESCRIPTION OF ITEM	UNIT	Estimated Quantity	Rate Excluding GST & Cess	Rate including Cess but excluding GST	Total amount excluding GST but including cess
	RCC - Non FIM Items_					0
61	Demolishing RCC WORK (taking all necessary safety precautions) for all depths below plinth level including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items).-(Equipment be used-Mechanical bracker/tractor compressor)	Cum	10	1940	1940	19400
62	Demolishing RCC WORK (taking all necessary safety precautions) for all heights above plinth level including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, straightening, scraping and cleaning of reinforcement bars, stacking of serviceable materials, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed._	Cum	5	2070	2070	10350
63	Chipping of RCC WORK (taking all necessary safety precautions) by CHISELLING, beyond 25mm and upto & inclusive of 50mm thickness including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc., cutting, lapping/welding of reinforcement bars as per drawings, disposal of the unserviceable material to spoil heaps anywhere within the plant boundary, all complete at all heights and depths, as specified and directed. (Excavation and backfilling shall be paid separately under relevant items).	Sqm	10	534	534	5340
64	Making through and through cut-outs in pockets of following shape and size in the RCC floor/walls of trenches/building of thickness up to 400 mm for facilitating cable/duct entries (taking all necessary safety precautions) by vibration less spark free mechanical means like core-cutting, wet cutting by diamond wall saw system at all depth and heights including supply of all tools and tackles, necessary scaffolding etc. cutting of reinforcement bars, disposal of unserviceable material, plastering & finishing the cut-out surface, all complete as specified and directed by the engineer-In-Charge	Each	5	2500	2500	12500
	Circular cutout up to diameter 100- 200 mm					
	PCC _ Non FIM Items_					0
65	Demolishing PLAIN CEMENT CONCRETE work (taking all necessary safety precautions) for all depths below plinth level including supply of all tools & tackles, necessary scaffolding, propping, underpinning etc. disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation and backfilling shall be paid separately under relevant items)	Cum	5	1520	1520	7600

CIVIL AND STRUCTURAL WORKS CONTRACT FOR MISCELLANEOUS CIVIL WORKS IN PLANT & TOWNSHIP AREA, RFCL RAMAGUNDAM UNDER PHASE-I SCHEME.

Item No	DESCRIPTION OF ITEM	UNIT	Estimated Quantity	Rate Excluding GST & Cess	Rate including Cess but excluding GST	Total amount excluding GST but including cess
	Stonework - Non FIM Works_					0
66	Demolishing STONE MASONRY WORK (taking all necessary safety precautions) for all depths below plinth level including supply of all tools and tackles, necessary scaffolding, propping, underpinning, cleaning and stacking of serviceable material, disposal of unserviceable material to spoil heaps anywhere within the plant boundary, all complete as specified and directed. (Excavation & backfilling shall be paid separately under relevant items)._	Cum	5	1090	1090	5450
	Steelwork - Non FIM Items_					
67	Dismantling bolted/riveted/welded STRUCTURAL STEEL WORK of all descriptions (taking all necessary safety precautions), including supply of all tools and tackles, consumables, necessary scaffolding etc., providing temporary bracings as required, cutting (by flame or saw) gusset plates, bolts, nuts, welding etc., transporting and stacking of the serviceable materials, cleaning the site of work of all unserviceable materials for disposal to spoil heaps anywhere within the plant boundary, all complete at all depths and heights, as specified and directed._	MT	1	9280	9280	9280
	Flexible road work					
68	Dismantling manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within a boundary limit of plant or township area or as directed :					
68 (a)	Water bound macadam road	Cum	150	155.96	157.52	23628
68 (a)	bituminous road	Cum	150	307.01	310.08	46512
	Miscellaneous work					
	Sand Filling - Non FIM Items					0
69	Supplying and filling approved SAND of specified quality under floors, in foundations, plinths, tank foundations etc. for all depths and heights including cost of sand, royalties, transportation to site for all leads and lifts, including loading, unloading, spreading in layers of loose thickness not exceeding 150 mm, watering, ramming, compacting with mechanical compactors and/or other equipment to the specified levels to achieve 85% relative density as per IS:2720 Part XIV, including preparation of subgrade to the required slope, providing testing apparatus and testing the degree of consolidation all complete as per drawings, specifications and direction. The rates shall be inclusive of the cost of all labour, material, equipment etc. all complete	cum	50	1380	1380	69000
70	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m					
	All kinds of soil	Sq.m	20000	24.44	24.68	493600

CIVIL AND STRUCTURAL WORKS CONTRACT FOR MISCELLANEOUS CIVIL WORKS IN PLANT & TOWNSHIP AREA, RFCL RAMAGUNDAM UNDER PHASE-I SCHEME.

Item No	DESCRIPTION OF ITEM	UNIT	Estimated Quantity	Rate Excluding GST & Cess	Rate including Cess but excluding GST	Total amount excluding GST but including cess
	Paver block					
71	Supplying & Laying interlocking Paver Blocks for roads, footpaths and any other place etc. including providing 50 mm thick sand filling below Paver Blocks including compaction of sand layer, filling the joints by dry sand, providing precast kerb stone of PCC M-20 at edges, including preparation of compacted sub-grade etc. all complete as per drawing, standard and directions of Engineer-in-Charge. (All material including cement supplied by contractor, paver blocks shall conform to IS: 15658. Colour and shape of paver block shall be as per Owner requirement.). For following thickness of Paver blocks					
	60mm thick cement concrete paver block of approved colour, design & pattern.	Sq.m.	400	1070.00	1070	428000
	Road Guard					
72	Manufacturing, supplying, transporting and erecting in position Plain Cement Concrete Pre-cast elements such as guard stones for road etc. of M20 grade with 20 mm and down size graded crushed stone aggregates for all leads, levels, shapes and thickness including all moulds, shuttering and centring, vibrating, tamping, curing, chamfering wherever required, finishing the top surface smooth and even surface as specified, transporting to site, erecting, leveling, aligning and fixing in position and providing retro reflective stickers for cautionary/warning, of standard width as per direction of Engineer-in-Charge.(All material including cement supplied by contractor.)	Cum	10	7058.44	7129.02	71290.2
	Soak Pit					
73	Construction of soak pit conforming to IS: 2470 Part-I and as per EIL drg. No. 7-65-0217, masonry, filling and hand packing, brick bats of size ranging between 40mm to 50, connecting with septic tank with necessary fittings, piping etc. Including excavation, back filling and disposal of surplus earth for all leads, complete as per drawings, specifications and directions of Engineer-in-Charge.					
	For following users_					
73(a)	(Users – 20 NOS)	Each	2	110000	110000	220000
73 (b)	(Users – 50 NOS)	Each	2	220000	220000	440000
	Ready-made RCC septic Tank					
74	Construction, supplying, installation, testing and commissioning of septic tank as per standards and IS:2470 Part-I , with all necessary accessories like inlet, outlet vent pipes, manhole covers, rungs etc. including earthwork in excavation in all type of soil except soft and hard rock, backfilling and disposal of surplus earth for all leads etc. complete as per standards, drawings, specifications and directions of Engineer-in-Charge.					
	All material including cement supplied by contractor for					
74 (a)	(Users -20 NOS)	Each	2	150500	150500	301000

CIVIL AND STRUCTURAL WORKS CONTRACT FOR MISCELLANEOUS CIVIL WORKS IN PLANT & TOWNSHIP AREA, RFCL RAMAGUNDAM UNDER PHASE-I SCHEME.

Item No	DESCRIPTION OF ITEM	UNIT	Estimated Quantity	Rate Excluding GST & Cess	Rate including Cess but excluding GST	Total amount excluding GST but including cess
74 (b)	(Users -50 NOS)	Each	2	293000	293000	586000
	PVC Water tank					
75	Supply and installation on terrace, high density polyethylene drinking water circular tank as per IS:12701 and ISI marked including supply and installation of all fittings, cover with suitable locking arrangement, float valve, making necessary holes for inlet, outlet and overflow connection and vent pipe etc. and the base supports for tank including supply of all necessary material all complete as per specifications and directions of Engineer-in-charge. (Sintex or equivalent having valid ISI license) for following capacities					
75 (a)	(Capacity - 500 Litres)	Each	2	4750	4750	9500
75 (b)	(Capacity - 1000 Litres)	Each	2	9500	9500	19000
	Inspection Chamber					
76	Construction as per EIL Std.7-65-0215 of brick masonry (brick class 5) inspection chambers/manholes of 750mmx750mm internal size 1000mm deep(Max.) in cement mortar 1:4 (1 cement: 4 sand) with CI frame and cover 500mm clear dia, (circular Medium duty of grade MD-10) conforming to IS:1726 fixed on RCC slab of M-30 grade, necessary excavation, supplying, fixing 4 Nos. 16mm dia M.S. rungs, M-20 grade foundation concrete 1:3 cement mortar(1 cement: 3 sand) plastering of 13mm average thickness for inside & 16mm avg. thickness for outside exposed surfaces, backfilling, disposal of surplus earth upto a lead of 100M, benching with M-20 grade cement concrete and rendering smooth with a neat coat of cement slurry, painting the C.I. frame and cover with two coats of chlorinated rubber zinc phosphate primer @ 40µ DFT per coat and finish painting consists of two coats of chlorinated rubber paint @40µ DFT per coat etc. all complete as per drawings, specifications and directions of Engineer-in-Charge.	Each	4	23750	23750	95000
	All materials including cement supplied by contractor and					
	CPVC pipe					
77	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.					
	Concealed work, including cutting chases and making good the walls etc.					
77 (a)	15 mm nominal dia Pipes	M	6	382.97	386.80	2320.8
77 (b)	20 mm nominal dia Pipes	M	6	446.00	450.46	2702.76
77 (c)	25 mm nominal dia Pipes	M	6	543.49	548.92	3293.52

CIVIL AND STRUCTURAL WORKS CONTRACT FOR MISCELLANEOUS CIVIL WORKS IN PLANT & TOWNSHIP AREA, RFCL RAMAGUNDAM UNDER PHASE-I SCHEME.

Item No	DESCRIPTION OF ITEM	UNIT	Estimated Quantity	Rate Excluding GST & Cess	Rate including Cess but excluding GST	Total amount excluding GST but including cess
77 (d)	32 mm nominal dia Pipes	M	6	618.76	624.95	3749.7
78	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.					
	Internal work - Exposed on wall					
78 (a)	15 mm nominal dia Pipes	M	6	222.15	224.37	1346.22
78 (b)	20 mm nominal dia Pipes	M	6	282.23	285.05	1710.3
78 (c)	25 mm nominal dia Pipes	M	6	354.67	358.22	2149.32
78 (d)	32 mm nominal dia Pipes	M	6	434.89	439.24	2635.44
78 (e)	40 mm nominal dia Pipes	M	6	585.42	591.27	3547.62
78 (f)	50 mm nominal dia Pipes	M	6	804.75	812.80	4876.8
79	Providing and fixing white vitreous china manual operated with stop cock (included) urinal of approx. size 610 x 390 x 370 mm, having water inlet from back side, 32mm dia GI waste pipe with brass union, CP brass bottle trap, CP brass spreader, tee, distribution pipe etc. including fixing to wall with suitable brackets all as per manufacturers specification and direction of Engineer-in-charge.	Each	4	6080.75	6141.56	24566.24
	CHAIN LINK FENCING					
80	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Y' shaped placed 2.4m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	Meter	60	263.61	266.25	15975
81	Supplying, fixing and tensioning in position, 2.5mm (12 gauge), 2 ply, 4 points, GI barbed wire (designation A- 1) conforming to IS:278 in horizontal rows and cross diagonals for chain link fencing overhang etc. with necessary GI staples, clips and pins, GI straining bolts and binding wire etc. complete as per drawings, specifications and directions of Engineer-in-Charge.(The barbed wire shall be measured in linear length of the barbed wire actually fixed)	Meter	393	50	50.00	19650

CIVIL AND STRUCTURAL WORKS CONTRACT FOR MISCELLANEOUS CIVIL WORKS IN PLANT & TOWNSHIP AREA, RFCL RAMAGUNDAM UNDER PHASE-I SCHEME.

Item No	DESCRIPTION OF ITEM	UNIT	Estimated Quantity	Rate Excluding GST & Cess	Rate including Cess but excluding GST	Total amount excluding GST but including cess
82	Supplying, fabricating and fixing G.I. chain link fencing with 3.5mm dia. wire, 50x50mm diamond mesh chain link fence fabric conforming to IS:2721 fixed to steel/RCC posts/struts above ground level, including supply of chain link fencing fabric in 1.9 metre wide rolls, stretcher bars, staples, etc. required for fixing the fencing, fixing of chain link fencing between straining posts, fixing of bottom of fencing to a concrete sill beams by means of hairpin staples, including supply and fixing line wires, complete as per drawings, specifications and directions of Engineer -in- Charge (All materials shall be supplied by Contractor). (The measurement of chain link fencing shall be on linear basis for 1.9 m wide fencing fabric)	Meter	200	720	720.00	144000
83	Supplying, fabricating and fixing G.I. chain link fencing with 3.5mm dia. wire, 50x50mm diamond mesh chain link fence fabric conforming to IS:2721 fixed to steel/RCC posts/struts above short height compound wall, including supply of chain link fencing fabric in 1.0 metre wide rolls, stretcher bars, staples, etc. required for fixing the fencing, fixing of bottom of fencing to a concrete sill beams by means of hairpin staples, including supply and fixing line wires, complete as per drawings, specifications and directions of Engineer-in-Charge (All materials shall be supplied by Contractor). (The measurement of chain link fencing shall be on linear basis for 1.0 m wide fencing fabric)	Meter	224	500	500.00	112000
84	Providing & Grouting of dowel tubes / Shear keys / Joints of precast members with M-60 grade cementitious grout (Non Shrink) of approved make by suitable means (Free flowing /pump), curing etc. Complete as per directions of Engineer-in-charge. (The payment shall be made on the basis of actual weight of approved grout injected.)					
	Stirrer mixed cementitious grout (non shrink) of approved make in dowel tubes / Shear keys / Joints of precast members.	KG	400	66.59	67.26	26902.36
	TOTAL					21276320

The bidders are required to quote rates as under: The bill of quantities has been provided & the agency is required to quote % above or below the Estimated Amount. Item-wise discounts/premiums is not permitted. If an agency quotes item-wise discount or premium his bid shall be treated as non-responsive and shall be rejected.

1) Quoted Rates = Estimated Rates minus _____%(Below) in figure and _____%(Below) in Words

OR

2) Quoted Rates = Estimated Rates plus _____%(Above) in figure and _____%(Above) in Words

3) Quoted Amount Total _____ IN FIGURES _____ IN WORDS

4) Add GST @ 18% on QOUTED AMOUNT _____

CIVIL AND STRUCTURAL WORKS CONTRACT FOR MISCELLANEOUS CIVIL WORKS IN PLANT & TOWNSHIP AREA, RFCL RAMAGUNDAM UNDER PHASE-I SCHEME.

Item No	DESCRIPTION OF ITEM	UNIT	Estimated Quantity	Rate Excluding GST & Cess	Rate including Cess but excluding GST	Total amount excluding GST but including cess
5) Quoted Grand Total including GST _____ IN FIGURES _____ IN WORDS						

NOTE FOR BIDDERS:-

1)	The rates should be quoted only in Indian rupees and should be indicated both in words as well as figures. In case of any discrepancy, the rates quoted in words shall be treated as final. Any corrections made in the prices shall be authenticated with signatures at all places. The Tenderer shall have to submit the Schedule of Rates Performa duly filled in, failing which their Price bid will not be accepted					
2)	The Rates quoted should be inclusive of all Taxes (except GST), Duties, Royalties and other Statutory Levies to be payable. Unless specified to the contrary in the bid, all present taxes and statutory levies shall be borne and paid for by the bidder. Payment of the taxes and other statutory levies shall be the responsibility of the bidder and shall not be payable by RFCL					
3)	Bids shall be evaluated on overall lowest basis.					
4)	Qty. mentioned in the Schedule of quantities is tentative and indicated for the purpose of evaluation of bids. However, actual quantities may vary. RFCL does not guarantee the quantum of work. Payment will be made on actual basis.					
		Signature of Bidder:				
		Name				
		Date				
		Place				