

DETAILS OF MEASUREMENTS

**PROPOSED CONSTRUCTION OF RIPENING CHAMBER AND PACKHOUSE
PROPOSED CONSTRUCTION OF CHANDRAMA FARMER PRODUCER CO.LTD AT GAT NO.155 PIMPRUD TAL
YAWAL DIST JALGAON (BASED ON SSR 2022-2023)**

No.	PARTICULARS OF WORK	NO.	MEASUREMENTS			QUANTITIES	UNIT
			L	B	H		
1	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete.(Lift upto1.5 m.) by MANUAL means	16.00	1.70	1.70	1	46.24	
	I) PACKHOUSE	8.00	1.70	1.70	1.00	23.12	
					TOTAL	69.36	CUM
2	Excavation for foundation in hard murum including removing the excavated material upto a distance 50 metres, beyond the building area and staking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5 m.) By MANUAL means	16.00	1.70	1.70	1.00	46.24	
		8.00	1.70	1.70	1.00	23.12	
					TOTAL	69.36	CUM
3	Providing preconstructional antitermite treatment as per I.S. 6313 (Part-II) treatment by treating the backfill in immediate contact with foundation at the rate of 5 litres of emulsion concentrate of 1.0 percent of clorophyrifos per square metre of vertical surface area covering 10 years guarantee on bond paper.						
		1.00	124.00	1.00		124.00	SQM

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			L	B	H		
4	Providing pre-constructional anti-termite treatment as per I.S. 6313 (Part – II) by treating the top surface of plinth filling at the rate of 5 litres of emulsion concentrate of 1.10 percent of chlorophyrifos per square metre of surface area. Spec. No. : As directed by Engineer in charge						
		1.00	30.00	11.00		330.00	SQM
						330.00	
5	Filling in plinth and floors with approved excavated material in 15 cm. to 20 cm. layers including watering and compacting etc. Complete				69.36		
					69.36		
		COLUMN AND FOOTING QUANTITY			-37.45		
					31.91		
					TOTAL	31.91	CUM
6	Filling in plinth and floors with Contractor's murum material in 15 cm. to 20 cm. layers including watering and compacting etc. complete.	1.00	11.00	30.00	1.80	594.00	
		1.00	15.00	11.00	1.800	297.00	PACKHO USE
		LESS BALANCE MATERIAL			31.91	-31.91	
					TOTAL	859.09	CUM
7	Providing dry trap / granite / quartzite / gneiss rubble stone soling 15 m. to 20 cm. thick including hand packing and compacting etc. complete.	1.00	11.00	30.00	0.30	99.00	
		24.00	1.70	1.70	0.20	13.87	
		1.00	15.00	11.00	0.30	49.50	PACKHO USE
						TOTAL	162.37
8	Providing and fabricating structural steel work in rolled sections like joists, channels, angles, tees etc. as per detailed design and drawings or as directed including cutting, fabricating, hoisting, erecting, fixing in position making riveted / bolted /welded connections without connecting plates, braces etc. and including one coat of anticorrosive paint and over it two coats of oil painting of approved quality and shade etc.complete.						
		1.00		15.00	11.00	165.00	PACKHO USE
		1.00		30	11	330.00	
				40kg/sqm		19,800.00	
		AS PER STUCTURAL DESIGN for SOLAR ROOF				19.80	
					19.80 MT.		

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No.	PARTICULARS OF WORK	NO.	MEASUREMENTS			QUANTITIES	UNIT	
			L	B	H			
9	Providing and laying cast in situ / Ready Mix cement concrete M-10 of trap / granite / quartzite / gneiss metal for foundation and bedding including bailing out water, steel centering, formwork, laying / pumping, compacting, roughening them if special finish is to be provided, finishing if required and curing complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Pan mixer) etc. complete.	16.00	1.70	1.70	0.20	9.25		
		8.00	1.70	1.70	0.20	4.62	PACKHOUSE	
						TOTAL	13.87	CUM
10	Providing and laying cast in situ / Ready Mix cement concrete in M-15 of trap / granite / quartzite / gneiss metal for step including steel centering, formwork, cover blocks, laying / pumping, compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. The cement mortar 1 : 3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed.), with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Pan mixer) etc. complete.							
		1.00	2.50	2.50	0.20	1.25		
		1.00	2.50	2.50	0.20	1.25	packhouse	
						TOTAL	2.50	CUM
11	Providing and laying cast in situ / Ready Mix cement concrete in M-15 of trap / granite / quartzite / gneiss metal for plain or molded sills, cornice, jambs, block in course, or architraves of required size and shapes including steel centering, formwork, laying / pumping, compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. The Cement Mortar 1 : 3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed.) with fully automatic micro processor based PLCwith SCADA enabled reversible Drum Type mixer / CONCRETE Batch mix plant (Pan mixer) complete. With fine aggregate (Natural sand / Crushed sand VSI Grade							
		5.00	2.00	0.45	0.15	0.68		
						TOTAL SAY	0.68	CUM

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No.	PARTICULARS OF WORK	NO.	MEASUREMENTS			QUANTITIES	UNIT
			L	B	H		
12	Providing and laying cast in situ / Ready Mix cement concrete in M-20 of trap / granite / quartzite / gneiss metal for R.C.C work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, steel centering, formwork, laying / pumping cover blocks, compaction, roughening them if special finish is to be provided, (Excluding reinforcement and structural steel) etc. complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural sand / crushed sand VSI						
		16.00	1.70	1.70	0.45	20.81	
		16.00	0.38	0.38	1.80	4.16	
		8.00	1.70	1.70	0.45	10.40	PACKHO USE
		8.00	0.38	0.38	1.80	2.08	
				TOTAL	37.45	cum	
13	Providing and laying cast in situ / Ready mix cement concrete M-20 of trap / granite / quartzite / gneiss metal for R.C.C. plinth beams as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying / pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel), with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Pan mixer) etc. complete.						
		4.00	11.00	0.23	0.40	4.05	
		2.00	30.00	0.23	0.40	5.52	
		2.00	15.00	0.23	0.40	2.76	PACKHO USE
		4.00	11.00	0.23	0.40	4.05	
						TOTAL	16.38
14	Providing and laying Cast in situ / Ready Mix cement concrete M-20 of trap / granite / quartzite / gneiss metal for R.C.C. columns as per detailed designs and drawing or as directed including steel centering, formwork, cover blocks, laying / pumping, compaction finishing the formed surfaces with cement mortar 1 : 3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete	2.00	0.23	0.38	5.50	0.96	
		14.00	0.23	0.38	5.50	6.73	
		10.00	0.23	0.38	5.50	4.81	PACKHO USE
						TOTAL	12.50

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No.	PARTICULARS OF WORK	NO.	MEASUREMENTS			QUANTITIES	UNIT	
			L	B	H			
15	Providing and laying cast in situ / Ready mix cement concrete M-20 of trap / granite / quartzite / gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying / pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel), with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Pan mixer) etc. complete.	2.00	11.00	0.23	0.45	2.28		
		2.00	30.00	0.23	0.45	6.21		
		2.00	15.00	0.23	0.45	3.11	PACKHO USE	
		2.00	11.00	0.23	0.45	2.28		
					TOTAL	13.87	CUM	
16	Providing and laying cast in situ / Ready mix cement concrete M-20 of trap / granite / quartzite / gneiss metal for R.C.C. chajja as per detailed design and drawings including steel centering, formwork, cover blocks, laying/ pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel), with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Pan mixer) etc. complete.							
		8.00	2.40	0.75	0.10	1.44		
							TOTAL	1.44
17	Providing and laying cast in situ / Ready mix cement concrete M-20 of trap / granite / quartzite / gneiss metal for R.C.C. slab as per detailed design and drawings including steel centering, formwork, cover blocks, laying/ pumping, compaction and roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement and structural steel), with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer / concrete Batch mix plant (Pan mixer) etc. complete.	1.00	30.00	11.00	0.20	66.00		
		1.00	15.00	9.00	0.20	27.00	PACKHO USE	
						93.00	CUM.	

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No.	PARTICULARS OF WORK	NO.	MEASUREMENTS			QUANTITIES	UNIT
			L	B	H		
18	Providing and fixing in position TMT FE-500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajja, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules, including cutting bending, hooking the bars, binding with wires or tack welding and supporting as required complete.				KG/CUM as per	KG	
			FOOTING	37.45	85.00	3,183.26	
			COL.	12.50	100.00	1,249.82	
			P.B.	16.38	100.00	1,637.60	
			BEAM	13.87	100.00	1,386.90	
			slab	93.00	100.00	9,300.00	
						TOTAL	16,757.58
					17.000	MT.	
19	Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in foundations and plinth of inner walls/ in plinth external walls including bailing out water manually , striking joints on unexposed faces, raking out joints on exposed faces and watering etc. Complete.	2.00	11.00	0.23	1.80	9.11	
		2.00	30.00	0.23	1.80	24.84	
		2.00	11.00	0.23	1.80	9.11	PACKHO USE
		2.00	15.00	0.23	1.80	12.42	
						TOTAL	55.48
20	Providing second class Burnt Brick masonry with conventional/ I.S. type bricks in cement mortar 1:6 in superstructure including striking joints, raking out joints, watering and scaffolding etc. Complete	2.00	11.00	0.23	1.80	9.11	
		2.00	30.00	0.23	1.80	24.84	
		2.00	15.00	0.23	1.80	12.42	PACKHO USE
		2.00	11.00	0.23	1.80	9.11	
						TOTAL	55.48
21	Providing internal cement plaster 20 mm. thick in double coat in cement mortar 1 : 4 without neeru finish to concrete or brick surfaces, in all position including scaffolding and curing etc. complete.	2.00	11.00		1.80	39.60	
		2.00	30.00		1.80	108.00	
		2.00	15.00		1.80	54.00	PACKHO USE
		2.00	11.00		1.80	39.60	
						TOTAL	241.20

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No.	PARTICULARS OF WORK	NO.	MEASUREMENTS			QUANTITIES	UNIT	
			L	B	H			
22	Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm. thick in ready mix cement mortar 1 : 4 of Ultra Tech using waterproofing compound at 1 Kg. per cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8 mm. thick in ready mix cement mortar 1: 4 of Ultra Tech finishing the surface by taking out grains and curing for fourteen days scaffolding etc. complete.	2.00	11.00		3.60	79.20		
		2.00	30.00		3.60	216.00		
		2.00	15.00		3.60	108.00	PACKHO USE	
		2.00	11.00		3.60	79.20		
						TOTAL	482.40	SQM
23	Providing and fixing plain zinc sheeting of 0.80 mm thick (22 B.W.G.) over the ridge hip or valley to galvanized iron sheet roofing including all fastening and bolt galvanized iron screws and bolts, lead and bitumen washers etc. complete (Weight of 6.8 Kg. / Sqm.) Spec. No. : Bd.R.5, Page No. 453	1.00	30.30		11.30	342.39		
		1.00	15.30		11.30	172.89	PACKHO USE	
					TOTAL	515.28	SQM	
24	Providing and fixing corrugated galvanised iron sheets of 0.63 mm thick (24B.W.G.) for VERTICAL without wind tiles including fastening with galvanised iron screws and bolts, lead and bitumen washers as per drawing etc. complete. (Weight of 5.5 Kilogram/sq.m.).	2.00	30.00		3.60	216.00		
		2.00	11.00		3.60	79.20		
		2.00	15.00		3.60	108.00	PACKHO USE	
		2.00	11.00		3.60	79.20		
						TOTAL	482.40	SQM
25	Providing and fixing rolling shutter fabricated from steel laths of minimum thickness 0.9 mm with lock plate of 3.15 mm thickness reinforced with 35 x 35 x 5 mm angle section fitted with sliding bolts and handles for both sides, deep M.S. channel section of depth and thickness not less than 65 mm and 3.15 mm respectively with hold fast arrangements, M.S. Bracket plate 300 x 300 x 3.15 mm minimum size and shape with square bar, suspension shaft of minimum 32 mm diameter, hood cover of M.S. sheet not less than 0.9 mm thickness and of any size at top and safety devices including mechanical gear operation arrangement consisting of worm gear wheels and worms of high grade cast iron or mild steel and one coat of red lead primer etc. complete. (I.S. 62481979) (With mechanical gear)	1.00	5.00		2.50	12.50	PACKHO USE	
		1.00	2.50		2.50	6.25	SQM	
					TOTAL	18.75	SQM	

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No.	PARTICULARS OF WORK	NO.	MEASUREMENTS			QUANTITIES	UNIT
			L	B	H		
26	Providing and fixing in position powder coated aluminium louvered windows / ventilator of various sizes with powder coating as per detailed drawing and specifications including aluminium frames 80 x 38 mm. x 1.22 mm. box type, 5 mm. thick sheet glass louvers, of Approved quality etc. complete.						
		8.00	1.50		1.20	14.40	PACKHO USE
					TOTAL	14.40	SQM
27	Providing and applying two coats of water proof cement paint with cement primer one coat of approved manufacture and of approved colour to old plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete					241.20	
						482.40	
			AS PER SAND FACE QUANTITY			482.40	
			and INTERNAL PLASTER			723.60	SQM
28	Providing and fixing mild steel grill work for windows, ventilators etc.20 Kilogram/Square Metre as per drawing including fixtures, necessary welding and painting with one coats of anticorrosive paint and two coats of oil painting complete.						PACKHO USE
		8.00	2.20		1.40	24.64	SQM
29	Providing and fixing board displaying information, such as ' Name of work, Tender cost, Name of contractor, work completion and liability period etc., having rectangular shape of 1.20 m. x 0.90 m. size made out 18 gauge(1.25 mm.) thick mild steel sheet painted with one coat of Zinc chromate stoving primer and two coats of enamel paint on front side and grey stove enamel on back side and border / messages /.symbols etc. with approved colour shade paint complete on M.S. angle of size 35 X 35 X 3 mm. frame with properly cross braced M.S. angles of size 35 mm. x 35 mm. x 3 mm. duly painted including Two M.S. angle iron posts of size 65 mm. x 65 mm. x 6 mm., 3.65 m. long painted with alternate black and white bands of 25 cm. width including all fixture etc. and fixing the boards in 1 : 4 : 8 concrete block of size 60 cm. x 60 cm. 75 cm. including excavation, refilling, transportation and labour						
		1	1			1	NO.

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No.	PARTICULARS OF WORK	NO.	MEASUREMENTS			QUANTITIES	UNIT
			L	B	H		
30	Providing and laying Polished Kota stone flooring With Hand-Cut Polished Kota Stones 25mm to 30mm thick and required width in plain/diamond pattern on bed of 1:6 Cement mortar including cement float, filling joints with neat cement slurry, curing, cleaning and Mirror Polishing etc. complete Note- Water absorption for kota stone should not exceed 0.05%.(Item to be used with prior permission of Superintending Engineer)	1	15	11		165	packhouse
					TOTAL	165	
31	Providing and laying vitrified matt finish tiles having size 590 mm to 605 mm x to 605 mm of 8 to 10 mm thickness and confirming IS. 15622-2006 (Group Bla) of approved make, shade and pattern for flooring in required position laid on a bed of 1:4 cement mortar including neat cement float, filling joints, curing and cleaning etc. complete.	1	11	30		330	SQM
					TOTAL	330	

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No.	PARTICULARS OF WORK	NO.	MEASUREMENTS			QUANTITIES	UNIT
			L	B	H		
ELECTRICAL WORK							
1	Supplying and erecting HMS PVC conduit FRLS grade 32 mm dia. With necessary accessories in wall/floor with chiselling appropriately as per specification No: WG-MA/CC.						
		1	160			160	MTR
2	Supplying and erecting PVC trunking (PVC casing-n-capping) of size 20mm with accessories on wall/ceiling as per specification No: WG-MA/CON.						
		1	230			230	MTR
3	Supplying and erecting mains with 2x1.5 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places as per specification No: WG-MA/BW						
		1	435			435	MTR
4	Supplying and erecting mains with 3x10 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places as per specification No: WG-MA/BW						
		1	158			158	MTR
5	Supplying and erecting modular type 32A, DP key tag switch with key tag,duly erected on provided plate and box with wiring connections complete.						
		14				14	EACH
6	Supplying and erecting modular type 3 pin 6 / 16A multi socket with safety shutter, duly erected on provided plate and box with wiring connections complete.						
		6				6	EACH

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No.	PARTICULARS OF WORK	NO.	MEASUREMENTS			QUANTITIES	UNIT
			L	B	H		
7	Supplying and erecting PVC Surface modular switch box with double mounting plate for 6 module duly erected.	6				6	EACH
8	Point wiring in for light/fan/bell in 20 mm metal conduit with 1.5 sq.mm (2+1E) FRLSH grade copper wire, flush type switch, earthing and required accessories as per specification No: WG-PW/SW	1	320			320	MTR
9	Supplying and erecting integrated LED street light fitting 26 to 30W IP65 &IK08 class having single piece pressure die-cast aluminium housing , having system lumens output of Min. 2600 Lumens, min. efficacy of 100 lumen/W, CRI>70, CCT upto 6500K, THD<10%, p.f. >0.95, operating range of 140-270V, inbuilt surge protection of 10 kV, Life class of 50,000 Hrs. at L70B50, including driver complete with 3 Years warranty as per specification No FG-ODF/FLS2.	9				9	EACH
10	Supplying and erecting Street light bracket made from 40 mm. dia 'B' class G.I. Pipe, 0.6m. in length along with pole cap of 300 mm length and 80 mm dia duly welded with provided leads as per specification no. FG-BKT/BPC	10				10	EACH
11	Supplying & erecting ready to use Retrofit T8 LED 18 / 20 tube light with polycarbonate body, heat sink, integrated HF electronic driver complete & compatible to T8 / T12 LED luminaire by disconnecting starter & ballast if necessary.	24				24	EACH
12	Supplying and erecting regular/ standard model ceiling fan of 1400mm. Sweep complete erected in position as per specification no. FG-FN/CF	8				8	EACH

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No.	PARTICULARS OF WORK	NO.	MEASUREMENTS			QUANTITIES	UNIT
			L	B	H		
13	Supplying, erecting & marking SPMCB 6A to 32A, C-series with rated short -circuit breaking capacity (Icn) 10kA in provided distribution board as per specification no. SW-SW/SPMCB	12				12	EACH
14	Supplying and erecting single pole and neutral distribution board (SPNDB),with 2 ways for incoming and 10 ways (10 poles) for outgoing SP MCBs,with door, 1.2mm thickness surface / flush mounted, IP 43 Protection on iron / GI frame as per specification no. SW-SWR/MCBDB	4				4	EACH
15	Supplying, erecting & commissioning 2 pole RCCB 40A, electromagnetic type with 30/100/300 mA sensitivity with earth leakage trip indication complete as per specification no. SW-RCCB/RCCB	4				4	EACH
16	Supplying, erecting & commissioning 4 pole RCCB 63A, electromagnetic type with 30/100/300 mA sensitivity with earth leakage trip indication complete as per specification no. SW-RCCB/RCCB	2				2	EACH
17	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 3½ core 95 sq. mm. aluminium conductor complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/AL	1	185			185	MTR

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No.	PARTICULARS OF WORK	NO.	MEASUREMENTS			QUANTITIES	UNIT	
			L	B	H			
18	Supplying & erecting end pole D. P. Structure for 11/0.415 kV, 100 kVA Transformer with R.S.J. Pole 2 Nos. of size 100 x 116 mm x 11 Mtr. Long with suitable Distribution Box of C.R.C.A. Sheet 16 SWG with 4 Pole MCCB 200 Amps as incomer & 6 Nos.100 Amps Kitkat / MCCB for out going Crcuits. Transformer D.P. Structure includes the A. B. Switch 200 Amps, D.O. fuse Set &L.A. Set. 2 Nos. Top channel of size 100 mmx 50 mm for erection of A.B. Switch& 2 Nos. Base channel of size 100 mm x 50 x mm for erecting Transformer.Channel of size 75 x40 mm for erecting D.O. Fuse Set, L.A., A.B. Switch handle etc. Angle of size 50 x 50 x6 mm for erecting Distribution Box , Transformer Belt etc.as per drawing (min. 124 Kg. iron work) with necessary clamps, Nut-bolts. Vcross arm, top clip, insulators etc. complete with caution board & barbed wire.D.P. Structure shall be erected in c.c. foundation complete.							
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19	Providing earthing with copper earth plate size 60 x 60 x 0.315 cm with funnel with a wire mesh for watering and brick masonry block C.I. cover with minimum 25 kg Carbon based environment friendly back fill Ground Enhancing compound complete with all materials, testing & recording the results as per specification no ESE -LA							
				2				2

