

**PROPOSED CONSTRUCTION OF AADISHAKTI MUKTAI KRUSHI VIKAS FARMER
PRODUCER CO.LTD GHANKHED TAL BODWAD DIST JALGAON (BASED ON SSR 2021-
2022)**

ABSTRACT OF COST

1	Estimated cost based on PWD SSR 2021-2022	Rs.	1,60,51,855.84
2	Add GST Applicable for Govt / co-operative sector 12% of Rs.1,60,51,855.84	Rs.	19,26,222.70
3	O. REIMBURSEMENT OF TESTING CHARGES		68,535.00
5	Royalty charges as per General Note 5/Page 3 of SSR 2021-2022	Rs.	1,37,159.22
6	TOTAL ESTIMATED COST	Rs.	1,81,83,772.76
	Rs.1,81,83,772.76(RUPEES ONE CRORE,EIGHTY ONE LACS,EIGHTY THREE THOUSAND SEVEN HUNDRED SEVENTY TWO AND PAISE SEVENTY SIX ONLY)		

Electrification

Internal road

Royalty

Material test

Cross Drainage work


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ADISHAKTI MUKTAI KRUSHI VIKAS FARMER PRODUCER CO.LTD GHANKHED TAL BODWAD DIST
JALGAON
SCHEDULE -B

ABSTRACT OF COST

No.	PARTICULARS OF WORK	QUANTITY	RATE	PER	AMOUNT
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 upto 1.5 m.) By Manual Means	198.62	232.00	CUM.	46,079.84
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	254.95	354.00	CUM.	90,253.01
3	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.to 3m) By Manual Means		403	CUM.	
4	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.	387.00	97	SQM	37,539.00


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ABSTRACT OF COST

No.	PARTICULARS OF WORK	QUANTITY	RATE	PER	AMOUNT
5	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				
		1538.10	94.00	SQM	1,44,581.40
6	Filling in plinth and floors with approved excavated material in 15 cm. to 20 cm. layers including watering and compacting etc. Complete				
		370.69	113.00	CUM.	41,887.74
7	Filling in plinth and floors with approved contractor's murum in 15 cm. to 20 cm. layers including watering and compacting etc. complete.				
		552.17	996.9	CUM.	5,50,460.27
8	Providing dry trap / granite / quartzite / gneiss rubble stone soling 15 m. to 20 cm. thick including hand packing and compacting etc. complete.				
		325.62	1677.91	CUM.	5,46,361.05
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.				
		258.50	6059.47	CUM.	15,66,397.23
10	Providing and laying cast in situ / Ready Mix cement concrete in M-15 of trap / granite / quartzite / gneiss metal for steps 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. complete.				
		14.40	6557.87	CUM.	94,433.33

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ABSTRACT OF COST

No.	PARTICULARS OF WORK	QUANTITY	RATE	PER	AMOUNT
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.	2.97	6892.87	CUM.	20,471.82
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.	82.88	7185.88	CUM	5,95,594.48
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.	55.38	7185.88	CUM	3,97,979.47
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.	20.41	13506.88	CUM	2,75,702.43

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SCHEDULE -B

ABSTRACT OF COST

No.	PARTICULARS OF WORK	QUANTITY	RATE	PER	AMOUNT
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.				
		36.58	12002.88	CUM	4,39,077.83
16	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.				
		33.49	13943	cum	4,66,972.26
17	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.				
		3.96	13630.88	CUM	53,978.28
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.				
		36.00	72113.92	MT.	25,96,101.12
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.				
		70.91	7788.89	CUM.	5,52,341.81

ABSTRACT OF COST

No.	PARTICULARS OF WORK	QUANTITY	RATE	PER	AMOUNT
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	193.59	8015.89	CUM	15,51,791.34
21	Providing internal cement plaster 12 mm. thick in single coat in cement mortar 1 : 4 without neeru finish to concrete or brick surfaces, in all position including scaffolding and curing etc. complete.	1042.49	270.71	SQM.	2,82,211.93
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.	1266.06	613.7	SQM.	7,76,981.02
23	Providing and fixing corrugated galvanized iron sheets thick (22 B.W.G.) for roofing without wind tiles including fastening with galvanized iron screws and bolts, lead and bitumen washers as per drawing etc. complete. (Weight of 5.5 Kg. / Sqm.) Spec. No. : Bd.R.5, Page No. 453	48.00	1041.00	SQM	49,968.00
24	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.	77.76	4730.00	SQM	3,67,804.80

ABSTRACT OF COST

No.	PARTICULARS OF WORK	QUANTITY	RATE	PER	AMOUNT
25	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.				
		39.00	3107.00	SQM.	1,21,173.00
26	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				
		2308.55	97.00	SQM.	2,23,929.16
27	Providing and fixing self supporting steel roofing system for a Godown or alike made up of structural grade steel sheet of 912 millimeter width (tolerance + / - 2 millimeter), moulded at site using mechanical press dies to the desired curve and shape to form 605 millimeter wide interlocking panels . The interlocking panels shall be pressed to close the seam forming water tight joints for a span of 28.75 meter having arch rise as 5.75 meter, arch length 33.92 meter. The base material made up of imported galvalume steel complying to ASTM A792 having base metal thickness of 1.00 millimeter (tolerace + / - 0.02 millimeter) with alloy coating AZ 150 and paint coating of regular modified polyster , top coat 25 micron and bottom coat 12 micron as per approved colour , including fixing hangers , clamps etc.as may be necessary of Proflex standard, including fixing sky light of 2 millimeter thick polycarbonate sheet of size 2' x 14' and turbo ventilator of 24" diameter to be installed at every 30 feet along the length of roof including finishing , testing and cleaning etc. complete.				
				1,540.00	2614.00

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ABSTRACT OF COST

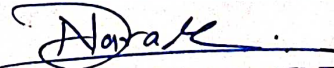
No.	PARTICULARS OF WORK	QUANTITY	RATE	PER	AMOUNT
28	Providing and fixing mild steel grill work for windows, ventilators etc. 20 Kilogram/Square Metre as per drawing including fixtures, necessary welding and painting with one coats of anticorrosive paint and two coats of oil painting complete.				
		67.76	1845.00	SQM	1,25,017.20
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 etc. complete.				
		1.00	11207.00	NO.	11,207.00
1	TOTAL COST OF GODOWN SIZE OF (1537.80 SQM)				1,60,51,855.84


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DETAILS OF MEASUREMENTS

PROPOSED CONSTRUCTION OF GODOWN
AADISHAKTI MUKTAI KRUSHI VIKAS FARMER PRODUCR CO.LTD.GHANKHED TAL-BODWAD DIST-
JALGAON (BASED ON SSR 2021-2022)

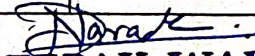
No.	PARTICULARS OF WORK	NO.	MEASUREMENTS			QUANTITIES	UNIT
			L	B	H		
1	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete.(Lift upto 1.5 m.) by MANUAL means.						
		12.00	1.60	1.80	0.5	17.28	
		16.00	1.80	2.00	0.5	28.80	
		4.00	2.10	2.30	0.5	9.66	
		16.00	2.10	2.30	0.40	30.91	
		3.00	1.20	1.20	0.40	1.73	
		6.00	1.70	1.90	0.40	7.75	
		2.00	70.00	0.90	0.23	28.98	
		1.00	15.00	12.00	0.23	41.40	DRYING PLATFO RM
		1.00	10.00	10.00	0.23	23.00	
		2.00	22.00	0.90	0.23	9.11	
				TOTAL	198.62	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	12.00	1.60	1.80	1.20	41.47	
		16.00	1.80	2.00	1.20	69.12	
		4.00	2.10	2.30	1.20	23.18	
		16.00	2.10	2.30	1.20	92.74	
		3.00	1.20	1.20	1.20	5.18	
		6.00	1.70	1.90	1.20	23.26	
						TOTAL	254.95
4	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	387.00	1.00		387.00	SQM


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DETAILS OF MEASUREMENTS

PROPOSED CONSTRUCTION OF GODOWN
AADISHAKTI MUKTAI KRUSHI VIKAS FARMER PRODUCR CO.LTD.GHANKHED TAL-BODWAD DIST-
JALGAON (BASED ON SSR 2021-2022)

No.	PARTICULARS OF WORK	NO.	MEASUREMENTS			QUANTITIES	UNIT	
			L	B	H			
5	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 clorophyrifos per square metre of surface area. Spec. No. : As directed by Engineer in charge							
		2.00	15.00	39.50		1,185.00	SQM	
		1.00	23.54	15.00		353.10	sqm	
						1,538.10		
6	Filling in plinth and floors with approved excavated material in 15 cm. to 20 cm. layers including watering and compacting etc. Complete				198.62			
					254.95			
		COLUMN AND FOOTING QUANTITY				-82.88		
						370.69		
					TOTAL	370.69	CUM	
7	Filling in plinth and floors with Contractor's murum material in 15 cm. to 20 cm. layers including watering and compacting etc. complete.	2.00	15.00	39.50	0.60	711.00		
		1.00	23.54	15.00	0.600	211.86		
		LESS BALANCE MATERIAL				370.69	-370.69	
					TOTAL	552.17	CUM	
8	Providing dry trap / granite / quartzite / gneiss rubble stone soling 15 m. to 20 cm. thick including hand packing and compacting etc. complete.	1.00	15.00	12.00	0.10	18.00	DRYING PLATFO	
		2.00	15.00	39.50	0.20	237.00		
		1.00	23.54	15.00	0.20	70.62		
						TOTAL	325.62	CUM
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.	12.00	1.60	1.80	0.15	5.18		
		16.00	1.80	2.00	0.15	8.64		
		4.00	2.10	2.30	0.15	2.90		
		16.00	2.10	2.30	0.10	7.73		
		2.00	15.00	39.50	0.15	177.75		
		1.00	23.54	15.00	0.15	52.97		
		3.00	1.20	1.20	0.10	0.43		
		6.00	1.70	1.90	0.15	2.91		
						TOTAL	258.50	CUM


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DETAILS OF MEASUREMENTS

PROPOSED CONSTRUCTION OF GODOWN

AADISHAKTI MUKTAI KRUSHI VIKAS FARMER PRODUCR CO.LTD.GHANKHED TAL-BODWAD DIST-
JALGAON (BASED ON SSR 2021-2022)

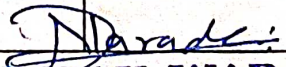
No.	PARTICULARS OF WORK	NO.	MEASUREMENTS			QUANTITIES	UNIT	
			L	B	H			
10	Providing and laying cast in situ / Ready Mix cement concrete in M-15 of trap / granite / quartzite / gneiss metal for step including steel centering, formwork, cover blocks, laying / pumping, compacting, roughening them if special 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.							
		6.00	1.20	1.00	2.00	14.40		
					TOTAL	14.40	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 PLC with SCADA enabled reversible Drum Type mixer / CONCRETE Batch mix plant (Pan mixer) complete. With fine aggregate (Natural sand / Crushed sand VSI Grade							
		22.00	2.00	0.45	0.15	2.97		
					TOTAL SAY	2.97	CUM	
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 Grade finely washed etc.)							
		12.00	1.40	1.60	0.45	12.10		
		16.00	1.60	1.80	0.50	23.04		
		4.00	1.90	2.10	0.50	7.98		
		16.00	1.90	2.10	0.50	31.92		
		3.00	1.20	1.20	0.40	1.73		
		6.00	1.50	1.70	0.40	6.12		
					TOTAL	82.88	cum	


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DETAILS OF MEASUREMENTS

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ADISHAKTI MUKTAI KRUSHI VIKAS FARMER PRODUCR CO.LTD.GHANKHED TAL-BODWAD DIST-
ALGAON (BASED ON SSR 2021-2022)

No.	PARTICULARS OF WORK	NO.	MEASUREMENTS			QUANTITIES	UNIT
			L	B	H		
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.						
		2.00	23.54	0.23	0.60	6.50	
		1.00	15.00	0.23	0.60	2.07	
		4.00	39.50	0.23	0.60	21.80	
		10.00	15.00	0.23	0.50	17.25	
		3.00	22.50	0.23	0.50	7.76	
					TOTAL	55.38	CUM
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	12.00	0.23	0.45	3.00	3.73	
		16.00	0.23	0.45	3.00	4.97	
		4.00	0.30	0.60	3.00	2.16	
		16.00	0.30	0.60	3.00	8.64	
		4.00	0.30	0.45	1.70	0.92	
					TOTAL	20.41	CUM
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.	4.00	39.50	0.23	0.60	21.80	
		2.00	23.54	0.23	0.60	6.50	
		4.00	15.00	0.23	0.60	8.28	
					TOTAL	36.58	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.						
		22.00	2.40	0.75	0.10	3.96	
					TOTAL	3.96	CUM


DEEPAK WARADE
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DETAILS OF MEASUREMENTS

PROPOSED CONSTRUCTION OF GODOWN
AADISHAKTI MUKTAI KRUSHI VIKAS FARMER PRODUCR CO.LTD.GHANKHED TAL-BODWAD DIST-
JALGAON (BASED ON SSR 2021-2022)

No.	PARTICULARS OF WORK	NO.	MEASUREMENTS			QUANTITIES	UNIT
			L	B	H		
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.	22.00	2.40	0.75	0.10	3.96	
		4.00	39.50	1.20	0.12	22.75	
		2.00	23.54	1.20	0.12	6.78	
						33.49	
17	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 pwd dsr.	KG	
			FOOTING	258.50	75.00	19,387.80	
			COL.	20.41	100.00	2,041.20	
			P.B.	55.38	90.00	4,984.52	
			BEAM	36.58	90.00	3,292.29	
			slab	33.34	100.00	3,334.00	
					TOTAL	33,039.81	
						36.000	MT.
18	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.	4.00	39.50	0.23	0.90	32.71	
		11.00	15.00	0.23	0.75	28.46	
		2.00	23.54	0.23	0.90	9.75	
					TOTAL	70.91	CUM
19	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	4.00	39.50	0.23	3.50	127.19	
		4.00	15.00	0.23	3.50	48.30	
		2.00	23.54	0.23	3.50	37.90	
		22.00	2.00	0.45		-19.80	
					TOTAL	193.59	CUM


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DETAILS OF MEASUREMENTS

PROPOSED CONSTRUCTION OF GODOWN
AADISHAKTI MUKTAI KRUSHI VIKAS FARMER PRODUCR CO.LTD.GHANKHED TAL-BODWAD DIST-
JALGAON (BASED ON SSR 2021-2022)

No.	PARTICULARS OF WORK	NO.	MEASUREMENTS			QUANTITIES	UNIT
			L	B	H		
20	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.	4.00	39.50		3.60	568.80	
		6.00	15.00		3.60	324.00	
		2.00	23.54		3.60	169.49	
		22.00	2.00	0.45		-19.80	
					TOTAL		1,042.49
21	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	39.50		5.00	395.00	
		2.00	15.96		5.00	159.60	
		4.00	15.00		5.00	300.00	col offset
		2.00	23.54		5.00	235.40	
		22.00	2.00		0.45	-19.80	
		4.00	39.50		1.00	158.00	slab cant
		2.00	18.93		1.00	37.86	
					TOTAL		1,266.06
22	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						
		6.00	4.00		2.00	48.00	
					TOTAL		48.00
23	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)						
		6.00	3.60		3.60	77.76	SQM


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DETAILS OF MEASUREMENTS

PROPOSED CONSTRUCTION OF GODOWN
 LADISHAKTI MUKTAI KRUSHI VIKAS FARMER PRODUCR CO.LTD.GHANKHED TAL-BODWAD DIST-
 JALGAON (BASED ON SSR 2021-2022)

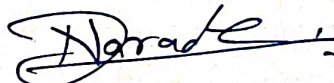
No.	PARTICULARS OF WORK	NO.	MEASUREMENTS			QUANTITIES	UNIT
			L	B	H		
24	Providing and fixing in position powder coated aluminium louvered windows / ventilator of various sizes with powder coating as per detailed drawing and specifications including aluminium frames 80 x 38 mm. x 1.22 mm. box type, 5 mm. thick sheet glass louvers, of Approved quality etc. complete.						
		22.00	1.80		1.00	39.60	
					TOTAL	39.60	SQM
25	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					1,042.49	
					AS PER SAND FACE QUANTITY	1,266.06	
					and INTERNAL PLASTER	2,308.55	SQM
26	Providing and fixing self supporting steel roofing system for a Godown or alike made up of structural grade steel sheet of 912 millimeter width (tolerance + / - 2 millimeter), moulded at site using mechanical press dies to the desired curve and shape to form 605 millimeter wide interlocking panels . The interlocking panels shall be pressed to close the seam forming water tight joints for a span of 28.75 meter having arch rise as 5.75 meter, arch length 33.92 meter. The base material made up of imported galvalume steel complying to ASTM A792 having base metal thickness of 1.00 millimeter (tolerace + / - 0.02 millimeter) with alloy coating AZ 150 and paint coating of regular modified polyster , top coat 25 micron and bottom coat 12 micron as perapproved colour , including fixing hangers , clamps etc.as may be necessary of Proflex standard, including fixing sky light of 2 millimeter thick polycarbonate sheet of size 2' x 14' and turbo ventilator of 24" diameter to be installed at every 30 feet along the length of roof including finishing , testing and cleaning etc. complete.	1.00				1,537.80	SQM.


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DETAILS OF MEASUREMENTS

PROPOSED CONSTRUCTION OF GODOWN
 AADISHAKTI MUKTAI KRUSHI VIKAS FARMER PRODUCR CO.LTD.GHANKHED TAL-BODWAD DIST-
 JALGAON (BASED ON SSR 2021-2022)

No.	PARTICULARS OF WORK	NO.	MEASUREMENTS			QUANTITIES	UNIT
			L	B	H		
27	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.						
		22.00	2.20		1.40	67.76	SQM
28	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 etc. complete.						
		1	1			1	NO.


DHEPAK WARADE
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PROPOSED CONSTRUCTION OF GODOWN
 MADISHAKTI MUKTAI KRUSHI VIKAS FARMER PRODUCR CO.LTD.GHANKHED TAL-BODWAD
 DIST- JALGAON (BASED ON SSR 2021-2022)

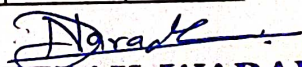
ROYALTY CHARGES

SR NO	WORK OF ITEM	QUANTITY	CONSTANT	SAND	RUBBLE	MURUM
1	CONTRACTOR MURRUM	367.00	0.532			195.24
2	SOLING	240.00	0.524		125.76	
3	PCC 1:3:6 M-10	258.50	0.470	121.50		
4	PCC1:2:4 M-15	14.40	0.445	6.41		
5	STEPS 1:2:4	2.97	0.425	1.26		
6	M-20 RCC FOOTING	67.66	0.425	28.76		
7	M-20 RCC P.B	47.30	0.425	20.10		
8	M-20 RCC COLUMN	20.41	0.425	8.68		
9	M-20 RCC BEAM	25.00	0.425	10.63		
10	PLINTH BRICK WORK 1:6	70.91	0.320	22.69		
11	SUPER STUCTURE 1:6 BRICK	150.00	0.320	48.00		
12	12 MM PLASTER 1:4	1042.49	0.015	15.64		
13	SAND FACE PLASTER	1287.00	0.033	42.47		
	SUB TOTAL			326.13	125.76	195.24
	TOTAL				CUM.	647.13
	RATE OF ROYALTY AS PER PWD- 211.95 CUM					
			TOTAL COST			1,37,159.22


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O. REIMBURSEMENT OF TESTING CHARGES

0.1	CEMENT					
	Standard consistency fineness, specific gravity, setting time (initial & final), compressive strength, soundness	2.00	3770	Each	7,540	0
		TESTS				
0.2	AGGREGATE					
(a)	Water absorption, specific gravity impact value, crushing value.	2.00	2600	Each	5,200	0
		TESTS				
(b)	Sieve Analysis	2.00	690	Each	1,380	0
		TESTS				
(c)	Abrasion value	2.00	1170	Each	2,340	0
		TESTS				
(d)	Flankiness index / Elongation index	2.00	850	Each	1,700	0
		TESTS				
(e)	Stripping value	2.00	745	Each	1,490	0
		TESTS				
(f)	Soundness	2.00	2495	Each	4,990	0
		TESTS				
0.3	FINE AGGREGATE					
(a)	Fineness modules (Sieve Analysis), Silt & clay content	1.00	1380	Each	1,380	0
		TESTS				
(b)	Chloride & sulphate content	1.00	795	Each	795	0
		TESTS				
(e)	Silt factor	1.00	850	Each	850	0
		TESTS				
0.4	BRICKS					
(a)	Water absorption (set of 5 bricks), comprehensive strength (set of 5 bricks), Efflorescence (set of 5 bricks)	2.00	2175	Each	4,350	0
		TESTS				
0.5	CONCRETE					
(a)	Comprehensive strength of C.C. cube (set of 3 cubes)	2.00	690	Each	1,380	0
		TESTS				
(b)	Flexural strength of beam	2.00	745	Each	1,490	0


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(c)	Permeability test	TESTS				
		2.00	1540	Each	3,080	0
0.10	MORTAR	TESTS				
	Comprehensive strength (set of 3 cubes)	2.00	650	Each	1,300	0
0.5	STONE / RUBBLE	TESTS				
	Crushing value / comprehensive strength, water Absorption & specific Gravity	1.00	2020	EACH	2,020	0
		TESTS				
0.6	SOIL / MURUM					
(a)	Sieve Analysis	1.00	690	EACH	690	0
		TESTS				
(b)	Liquid limit & plastic limit	1.00	1170	EACH	1,170	0
		TESTS				
(c)	Compaction Test (Proctor Density)	1.00	1860	EACH	1,860	0
		TESTS				
(d)	C.B.R. Test (Lab) Excluding compaction test	1.00	6905	EACH	6,905	0
		TESTS				
(e)	Free swell test for soil	1.00	905	EACH	905	0
		TESTS				
0.7	WATER					
(a)	PH Value, Sulphate & Chloride Content	2.00	1115	EACH	2,230	0
		TESTS				
0.8	STEEL BAR TESTING					
(a)	Upto 16 mm. (set of 3 bars)	2.00	1275	EACH	2,550	0
		TESTS				
(b)	Above 16 mm. (set of 3 bars)	2.00	1595	EACH	3,190	0
	(Tensite strength % elongation, yield stress, weight per meter, Bend / Rebend Test, Proof stress)	TESTS				0
(c)	Nitral solution test (set of 3 bars)	2.00	3875	EACH	7,750	0
		TESTS				
	TOTAL FOR SECTION ' O '				68,535	0.0

Deepak Warade
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NAME OF WORK:- AADISHKTI MUKTAI KRUSHI VIKAS FARMER PRODUCER
CO.LTD.GHANKHED TAI-BODWAD DIST-JALGAON (BASED ON SSR 2021-2022)

RATE ANALYSIS

Item - 1

Soft murum 1.50 mtr

Rate from SSR. 2021-22 - 21.02/pg.197 Rs. 232.00

Total Rate.

Rs. 232.00 cum.

Item - 2

Hard murum 1.5 MTR

Rate from SSR.2021-22 - 21.06/pg. 197

Rs. 354

Total Rate.

Rs. 354.00 cum.

Item - 3

Hard murum 1.5 to 3 MTR

Rate from SSR.2021-22 - 21.06/pg. 197

Rs. 403

Total Rate.

Rs. 403.00 cum.

Item - 4

Antitermite IN FOUNDATION

Rate from SSR.2021-22 - 21.24/pg. 199 Rs. 97.00

Total Rate.

Rs. 97.00 SQM.

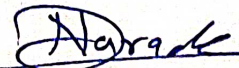
Item - 5

Antitermite TOP SURFACE

Rate from SSR.2021-22 - 21.24/pg. 199 Rs. 94.00

Total Rate.

Rs. 94.00 SQM.



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Item - 6

Filling from excavated murum

Rate from SSR.2021-22 - 21.36/pg.201

Rs. 113.00 CUM

Total Rate.

Rs. 113.00 cum.

Item - 7

Filling from contractor's murum

Rate from SSR.2021-22 - 21.37/pg.201

Rs. 550.00

Add lead charges.

1.30 x Rs.319.93

Rs. 415.90

Total Rate.

Rs.965.90 cum.

Item - 8

Soling.

Rate from SSR.2021-22 - 21.38/pg.201

Rs. 1294.00

Add lead charges.

1.20 x Rs.319.93

Rs. 383.91

Total Rate.

Rs. 1677.91 cum

Item -9

Providing and laying M-10 PCC

Rate from SSR.2021-22 - 24.01/pg.226

Rs. 5538.00

Add lead charges of cement

0.22 x Rs.319.93

Rs. 70.38

Add lead charges of sand

0.47 x Rs.319.93

Rs. 150.36

Add lead charges of aggregate

0.94 x Rs.319.93

Rs. 300.73

Total Rate.

Rs. 6059.47 cum.

Item -10

Providing and laying M-15 PCC

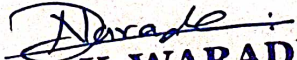
Rate from SSR.2021-22 - 24.08/pg.227

Rs. 6030

Add lead charges of cement

0.32 x Rs.319.93

Rs. 102.38


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Add lead charges of sand	0.44 x Rs.319.93	Rs. 140.76
Add lead charges of aggregate	0.89 x Rs.319.93	Rs. 284.73
Total Rate.		Rs. 6557.87 cum.

Item - 11

Providing and laying for window Sills M-15

Rate from SSR.2021-22 - 24.14/pg.228		Rs. 6365
Add lead charges of cement	0.32 x Rs. 319.93	Rs. 102.38
Add lead charges of sand	0.44 x Rs. 319.93	Rs. 140.76
Add lead charges of aggregate	0.89 x Rs. 319.93	Rs. 284.73
Total Rate.		Rs. 6892.87 cum.

Item - 12

RCC M - 20 FOOTING & FOUNDATIONS

Rate from SSR.2021-22 - 25.11/pg.230		Rs. 6666
Add lead charges of cement	0.35 x Rs. 319.93	Rs. 111.97
Add lead charges of sand	0.425 x Rs. 319.93	Rs. 135.97
Add lead charges of aggregate	0.85 x Rs. 319.93	Rs. 271.94
Total Rate.		Rs. 7185.88 cum.

Item - 13

RCC Plinth beam

Rate analysis same as Item - 11		Rs. 7185.88 cum.
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Item - 14

RCC COLUMN M - 20

Rate from SSR.2021-22 - 25.31/pg.232		Rs. 12987.00
Add lead charges of cement	0.35 x Rs. 319.93	Rs. 111.97

Add lead charges of sand	0.425 x Rs. 319.93	Rs. 135.97
Add lead charges of aggregate	0.85 x Rs. 319.93	Rs. 271.94
Total Rate.		Rs. 13506.88 cum.

Item - 15

RCC BEAM M - 20

Rate from SSR.2021-22 - 20.50/pg.234		Rs.11483.00
Add lead charges of cement	0.35 x Rs. 319.93	Rs. 111.97
Add lead charges of sand	0.425 x Rs. 319.93	Rs. 135.97
Add lead charges of aggregate	0.85 x Rs. 319.93	Rs. 271.94
Total Rate.		Rs. 12002.88 cum.

Item -16

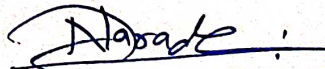
RCC SLAB M - 20

Rate from SSR.2021-22 - 26.05/pg.239		Rs. 13423.12
Add lead charges of cement	0.35 x Rs. 319.93	Rs. 111.97
Add lead charges of sand	0.425 x Rs. 319.93	Rs. 135.97
Add lead charges of aggregate	0.85 x Rs. 319.93	Rs. 271.94
Total Rate.		Rs. 13943 cum.

Item -17

RCC CHAJJA SLAB M - 20

Rate from SSR.2021-22 - 26.05/pg.239		Rs. 13111.00
Add lead charges of cement	0.35 x Rs. 319.93	Rs. 111.97
Add lead charges of sand	0.425 x Rs. 319.93	Rs. 135.97
Add lead charges of aggregate	0.85 x Rs. 319.93	Rs. 271.94
Total Rate.		Rs. 13630.88 cum.


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Item -18

TMT FE 500 REINFORCEMENT

Rate from SSR.2021-22 – 26.33/pg.245		Rs. 71778
Add lead charges	1.05x Rs.319.93	Rs. 335.92
Total Rate.		Rs. 72113.92 MT.

Item - 19

Providing 2nd class burnt brick in plinth

Rate from SSR.2021-22 – 27.12/pg.255		Rs. 7343.00
Add lead charges of Cement	0.079 x Rs.319.93	Rs. 25.27
Add lead charges of Sand	0.32 x Rs. 319.93	Rs. 102.37
Add lead charges of Bricks	475 nos x Rs.0.67	Rs. 318.25
Total Rate.		Rs. 7788.89 cum.

Item -20

prviding 2nd class brick in Superstructure

Rate from SSR.2021-22 – 27.30/pg.255		Rs. 7570
Add lead charges of Cement	0.079 x Rs.319.93	Rs. 25.27
Add lead charges of Sand	0.32 x Rs. 319.93	Rs. 102.37
Add lead charges of Bricks	475 nos x Rs.0.67	Rs. 318.25
Total Rate.		Rs. 8015.89 cum.

Item - 21

Internal 12mm in cement plaster

Rate from SSR.2021-22 – 32.04/pg.268		Rs. 264.00
Add lead charges of Cement	0.006 x Rs.319.93	Rs. 1.92
Add lead charges of Sand	0.015 x Rs.319.93	Rs. 4.79
Total Rate.		Rs. 270.71 Sqm.


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Item - 22

Sand face plaster external

Rate from SSR.2021-22 - 32.11/pg.269 Rs 599.00

Add lead charges of Cement 0.013 x Rs. 319.93 Rs. 4.15

Add lead charges of Sand 0.033 x Rs. 319.93 Rs. 10.55

Total Rate. Rs. 613.70 Sqm.

Item - 23

Providing corrugated G.I sheet 22 BWG

Rate from SSR.2021-22 - 39.88/pg.191 Rs. 1041

Total Rate. Rs. 1041 Sqm.

Item -24

Rolling shutter

Rate from SSR.2021-22 - 39.25/pg.318 Rs. 4730

Total Rate. Rs. 4730.00 Sqm

Item -25

Alum. Louvered / ventilators

Rate from SSR.2021-22 - 39.68/pg.331 Rs. 3107

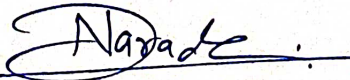
Total Rate. Rs. 3107 Sqm

Item -26

Two coats of cement paint with primer

Rate from SSR.2021-22 - 35.22/pg.288 Rs. 97.00

Total Rate. Rs. 97.00 SQM.



DEEPAK WARADE

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Item -27

Self supporting steel roof

Rate from SSR.2021-22 - 38.44/pg.288

Rs. 2614

Total Rate.

Rs. 2614.00 sqm

Item -28

Grill work

Rate from SSR.2021-22 - 40.01/pg.288

Rs. 1845

Total Rate.

Rs. 1845.00 sqm

Item -29

Name board

Rs. 10000.00 per no.


DEPAK WARADE
DIP (CIVIL), BE. (CIVIL),
A. (Const. Management) NICMAR
Consultant Engineer
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