

RECAPULATION SHEET

PROPOSED CONSTRUCTION OF SHED FOR CLEANING GRADING CENTER (208 Sq Mtr) "SHETKARI MITRA FARMER PRODUCER COMPANY "AT.MALEGAON TQ.ARDHAPUR DIST.NANDED.

Based on PWD SSR 2021-22						
PARTICULARS		Unit		AMOUNT	Cost per MT	
S.W. I - W.H.Building				2459999.75		
Total cost of cleanig grading shead				2460000		
S.W.III - Electrification			Rs	102696		
S.W. IV - Royalty charges			Rs.	118766		
S.W.:- V - Lab testing charges			Rs.	88500		
Tender Cost			Rs.	309962		
Grand Total Add GST 12%			Rs.	2769962		



SACHIN V. PANDIT
PANDIT ASSOCIATES
NND/VPP/C-5/ADTPN/03/2017
S.No-216, Kasliwal Project,
Aanand Nagar Road, NANDED.

PROPOSED CONSTRUCTION OF SHED FOR CLEANING GRADING CENTER (208 Sq Mtr) "SHETKARI MITRA FARMER PRODUCER COMPANY "AT.MALEGAON TQ.ARDHAPUR DIST.NANDED.

S.W.III - Electrification												
Based on PWD Electrical DSR 2021-22 & Market rates												
I.N.	DESCRIPTION OF ITEM	QUANTITY	UNIT	I.N./P.N.	RATE		Add 5% other than Dist.Place		Total of 6+7		AMOUNT	
					Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Supplying, erecting & terminating XLPE armoured cable 3 core 6 sq. mm. copper conductor continuous 5.48 sq. mm. (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-LT/CU	30.00	Running Meter	7-2-16/129	283.00		14.15		297.15			8915.00
2	Making trench of suitable width and depth in hard murum / tar road for laying provided LT cable up to and including 16 sq. mm complete as per specification no. CW-EXNCTR	20.00	Running Meter	16-1-2/239	193.00		9.65		202.65			4053.00
3	Making trench of suitable width and depth in soft soil for laying provided LT cable up to and including 16 sq. mm complete as per specification no. CW-EXN-CTR	10.00	Running Meter	16-1-1/239	156.00		7.80		163.80			1638.00
4	Supplying & erecting mains PVC unarmoured cable 1100Volt grade ISI mark 3 core / 2.5 sqmm stranded / solid copper complete erected on wall with duly painted G. I. Saddle @	157.00	Running Meter	RA	125.60		6.28		131.88			20705.00
5	Supplying & erecting weatherproof powder coated distribution board 4 way with 2 x 6/10 Amp S. P. M. C. B. with industrial two pin plug socket 10 A and 3 pin plug top 10 A with top cover necessary connection etc complete with approved make.	8.00	Number	RA	1290.00		64.50		1354.50			10836.00
6	Providing point wiring for street light with PVC unarmoured cable 1100Volt grade ISI mark 3 core 1.5 sqmm stranded / solid copper erected on wall with G. I. Saddle duly painted @ 0.25 m C/C rigidly grouted in the wall with the help of plated screw including 4" x 4" M. S. box 2 way with epoxy painting &	8.00	Number	RA	1223.60		61.18		1284.78			10278.00
7	Supplying & erecting 10-12W, 230V integral type LED Lamp suitable for B-22E-27 base.	4.00	Number	2-10-11/42	230.00		11.50		241.50			966.00
8	Supplying and erecting LED street light fitting suitable for 20 to 25W. with PF > 0.95 class IP 65 and above housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete as per specification No FG-ODF/FLS	4.00	Number	2-5-2/34	2009.00		100.45		2109.45			8438.00
9	Supplying and erecting street light Wall bracket made from 40 mm. dia 'B' class G.I. pipe 1.2 m in total length complete as per specification no. FG-BKT/WB	4.00	Number	2-9-4/38	712.00		35.60		747.60			2990.00
10	Providing earthing with galvanized iron earth plate size 60 x 60 x 0.6 cm complete with all materials, testing & recording the results as per specification no. EA-EP.	1.00	Number	9-1-1/159	4238.00		211.90		4449.90			4450.00

11	Providing pipe type earthing with 40mm. dia. G.I. pipe or 20 mm dia. G.I. Rod complete with all materials as per specification no. EA- EP	1.00	Number	9-1-4/159	1355.00	67.75	1422.75	1423.00
12	Supplying, erecting & marking DPMCB 6A to 32A, C- series (for motor/power) in provided distribution board as per specification no. SW-SWR/MCB	1.00	Number	5-3-6/94	488.00	24.40	512.40	512.00
13	Supplying, erecting & marking SPMCB 6A to 32A, B- series (for lighting) in provided distribution board as per specification no. SW-SWR/MCB	1.00	Number	5-3-3/94	164.00	8.20	172.20	172.00
14	Supplying and erecting GI sheet 1.6 mm (16 SWG) to be used for fabrication of boxes panel boards etc. including cutting, bending, drilling, welding, riveting etc. and painting with one coat of red lead paint and 2 coats of enamel paint.	1.00	Square Meter	6-1-2/112	2264.00	113.20	2377.20	2377.00
15	Supplying and erecting marine plywood 18/19 mm thick fixed to wall or on provided panel board with necessary materials such as screws, wall fasteners, supports, nut bolts etc. complete.	1.00	Square Meter	6-1-14/113	1342.00	67.10	1409.10	1409.00

16	Supplying and erecting triple pole and neutral distribution board (TPNDB) surface/ flush mounted suitable for SPMCB of 12 ways on iron / GI frame (horizontal busbar type)	4.00	Number	RA	4732.00	236.60	4968.60	19874.00
17	Supplying & erecting G.I. pipe 'A' class 25 mm dia. erected for enclosing XLPE armoured cable on wall/pole as per specification no. CB-CE	18.00	Running Meter	7-6-1/138	196.00	9.80	205.80	3704.00
18	Supplying & erecting G.I. pipe 'A' class 40 mm dia. erected for enclosing XLPE armoured cable on wall/pole as per specification no. CB-CE	12.00	Running Meter	7-6-2/138	304.00	15.20	319.20	3830.00
19	Supplying and laying (including excavation of suitable width & depth up to 90 cm) 75 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing	24.00	Running Meter	7-6-10/139	227.00	11.35	238.35	5720.00
20	Supplying & erecting 18 gauge M.S. Box powder coated (4"x4") 3 way for mains connection.	6.00	Number	MR	80.00	4.00	84.00	504.00
21	Supplying & erecting Siemens type brass cable glands for 3 to 4 core 6 sq. mm. /2 to 4 core 10 sq. mm. for XLPE armoured cable as per specification No. CB-GL	8.00	Number	7-7-2/139	58.00	2.90	60.90	487.00
22	Supplying shockproof type hand lamp with lamp holder, bulb/ lamp 100 W guarded glass and 30 mtr. 3 core PVC flexible cord with hand shield type 3 pin 6 Amp. Plug top.	2.00	Number	RA	1573.00	78.65	1651.65	3303.00
23	Point wiring for independent plug in 20 mm ISI marked HMS PVC conduit with 1.5 sq.mm (2+1E) FRLSH grade copper wire, flush type switch, earthing and required accessories as per	2.00	Number	1-9-8/17	496.00	24.80	520.80	1042.00
24	Supplying and erecting Street light bracket made from 25 mm. dia 'B' class G.I. Pipe, 0.6 m in length along with pole cap of 300 mm length and 80 mm dia duly	1.00	Number	RA	466.00	23.30	489.30	489.00
25	Supplying & erecting mains with 2 x 2.5 Sq.mm stranded copper PVC insulated wire with 2 x 1.5 Sq.mm copper PVC wire in PVC casing - capping 20 mm on wall / ceiling.	2.00	Running Meter	RA	131.00	6.55	137.55	275.00
26	Supplying & erecting main with 2 x 4.00 Sq.mm stranded copper PVC insulated wire with 2 x 1.5 Sq.mm copper PVC wire in PVC casing - capping on wall / ceiling.	2.00	Running Meter	RA	154.00	7.70	161.70	323.00
27	Supplying and erecting double pole switch surface type/ flush type 240V, 32A with indicator lamp & fuse as per specification no. SW-SWR/BDP.	1.00	Number	5-1-1/89	177.00	8.85	185.85	186.00
28	Supplying and erecting double pole metal clad switch with HC type fuse and neutral link 240V, 32A on iron / GI frame as per specification no. SW-SWR/MDP ..	8.00	Number	5-1-3/89	783.00	39.15	822.15	6577.00
29	Supplying & erecting 3W, 230V integral type LED Lamp suitable for B-22/E-27 base.	2.00	Number	2-10-9/40	125.00	6.25	131.25	263.00
30	Supplying and erecting T8 Fluorescent tube day light 1200mm 36 W	8.00	Number	2-10-2/40	44.00	2.20	46.20	370.00

31	Supplying & erecting ready to use Retrofit T8 LED 18 / 20 tube light with polycarbonate body, heat sink, integrated HF electronic driver complete &	1.00	Number	2-10-14/40	626.00	31.30	657.30	657.00
32	Supplying and erecting regular/ standard model ceiling fan of 900 /1050 mm. sweep complete erected in position as	2.00	Square Meter	2-12-2/41	1894.00	94.70	1988.70	3977.00
33	Supplying and fixing wiremesh (Jali) cover suitable for fitting / fan or for any purpose, complete with necessary materials.	4.00	Number	2-4-10/33	442.00	22.10	464.10	1856.00
34	Supplying and erecting ding dong / electronic musical type call bell with heavy duty coil suitable to operate on 230V A.C. supply erected on polished	2.00	Number	2-4-13/33	131.00	6.55	137.55	275.00
35	Supplying and erecting street light Wall bracket made from 25 mm. dia 'B' class G.I. pipe 1.2 m in total length complete as per specification no. FG-	5.00	Number	2-9-3/38	575.00	28.75	603.75	3019.00
36	Supplying & erecting CRCA sheet metal one wayenclosures suitable for DP MCB /TP MCB /FP MCB	1.00	Number	5-4-23/97	361.00	18.05	379.05	379.00
37	Supplying erecting and marking four pole isolators only switch version of miniature circuit breakers of 40A in provided distribution board	1.00	Number	5-3-24/95	625.00	31.25	656.25	656.00
							Total in Rs.	102696.00
							Say	102696.00

Name of work: - CONSTRUCTION OF SHED FOR CLEANING GRADING CENTER (208 Sq Mtr) "SHETKARI MITRA FARMER PRODUCER COMPANY "AT.MALEGAON TQ.ARDHAPUR DIST.NANDED.

ABSTRACT SHEET

Sr.No	Item Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1	Excavation for foundation in earth, soil of all types sand, gravel and soft Murum including removing the excavated material Upto a distance of 50 m. beyond the building area stacking and spreading as directed dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering (including shoring and strutting) etc. . (Above 1.50 meter)complete.	341.99	Cum	232	79341.68
2	Providing and laying in situ cement concrete M15 in 1: 2: 4 of trap/ granite/ quartzite/ gneiss metal for foundation and bedding including bailing out water, formwork, compacting, finishing if required and curing etc. complete.	12.04	Cum	6030	72601.2
3	Providing and laying in situ cement concrete M 20 of trap/ granite/ quartzite/ gneiss metal for Reinforced cement concrete work in foundation like raft, grillages, strip foundation and footing of reinforced cement concrete columns and steel stanchion including bailing out water, formwork, compacting, finishing and curing etc. complete. (Excluding steel reinforcement and structural steel)	40.09	Cum	6666	267239.94
4	Providing and casting in situ cement concrete M-20 of trap/ granite/ quartzite/ gneiss metal for reinforced cement concrete columns as per detailed designs and drawings or as directed including centering, formwork, compacting and finishing the form surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface if special finish is to be provided and curing its complete.	27.11	Cum	12987	352077.57
5	Providing and casting in situ cement concrete M- 20 of trap/ granite/ quartzite/ gneiss metal for reinforced cement concrete beams and lintels as per detailed designs and drawings, or as directed including, centering, formwork, compaction and roughening the surface if special finishing to be provided and curing etc. complete.	5.17	Cum	11487	59387.79
6	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.	12.69	Cum	7343	93182.67
7	Filling in plinth and floors with contractor's soil, sand or murum in 15 cm to 20 cm. layers including watering and compaction it's complete.	363.17	Cum	283	102777.11

27.11	@	12987.00	352139.26 Rs/-
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ITEM 05

Providing and casting in situ cement concrete M- 20 of trap/ granite/ quartzite/ gneiss metal for reinforced cement concrete **beams and lintels** as per detailed designs and drawings, or as directed including, centering, formwork, compaction and roughening the surface if special finishing to be provided and curing etc. complete.

12.64	x	0.23	x	0.30	x	2	=	1.74	cum.
24.84	x	0.23	x	0.30	x	2	=	3.43	cum.
								5.17	cum.

5.17	@	11487.00	59413.52 Rs/-
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ITEM 06

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.

22.44	x	0.23	x	0.84	x	2	=	8.67	cum.
10.39	x	0.23	x	0.84	x	2	=	4.01	cum.
								12.69	cum.

12.69	@	7343.00	93149.71 Rs/-
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ITEM 07

Filling in plinth and floors with contractor's soil, sand or **murum** in 15 cm to 20 cm. layers including watering and compaction it's complete.

12.19	x	24.38	x	1.22	x	1	=	363.17	cum.
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363.17	@	283.00	102776.79 Rs/-
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ITEM 08

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

22.44	x	3.05	x	0.23	x	2	=	31.48	cum
10.39	x	3.05	x	0.23	x	2	=	14.58	cum
								46.06	cum

Deduction

D	3.05	x	2.13	x	0.23	x	8	=	11.95	cum.			
W	1.82	X	1.22	X	0.23	X	4	=	2.04	cum.			
Net qty. =								46.06	-	14.00	=	32.06	cum.

32.06	@	7570.00	242725.71 Rs/-
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ITEM 09

Providing and fixing in position TMT-FE500 Reinforcement of various diameters for R.C.C pie caps, Footings, Foundations, Slabs, Beams, Columns, Canopies, Staircase ETC.

Foundation		2.97	M.T
Columns		2.37	M.T
Beams&Lintels		0.41	M.T
	=	5.75	M.T

5.75	@	71778.00	412723.50 Rs/-
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ITEM 10

Providing and fixing corrugated galvanized iron sheet of 0.63mm thick (24B.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 Kilogram/sq.m.).

135.58	@	816.00	110629.20 Rs/-
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ITEM 11

Providing structural steel work in trusses, others similar trussed purlins and members with all bracing, gusset plates etc. as per detailed designs and drawings or as directed including cutting, fabricating, hoisting, erecting, fixing in position, Making riveted/bolted/welded connection and one coat of anti-corrosive paint and over it 2 coats of oil painting approved quality and shade etc. complete.

6.30	@	105909.00	667226.70 Rs/-
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GROUND FLOOR TOTAL		=	245999.75 Rs/-
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A) GROUND FLOOR TOTAL	=	245999.75
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TOTAL ESTIMATE FOR G.F.	Rs/-	=	245999.75
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Grand Total	Rs/-	=	245999.75
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Say as Rs/-	-	245999.75
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(IN WORDS : - TWENTY SEVEN LAC SEVENTY NINE THOUSAND SEVEN HUNDRED SIXTY ONE RUPEES ONLY.)

NOTE :- GOV.OF MAHARASHTRA PUBLIC OF DEPARTMENT S.S.R 2021-22

Item No.	Item No & Description of Item	Executed Quantity	Quantity of Material for Royalty Cu. M		METAL	MURUM	RUBBLE	
			Cement in bags	SAND				
17	S.W. I - W.H.BUILDING/12000 M T Providing uncoursed rubble masonry of trap / granite / quartzite / gneiss stones in cement mortar 1:6 in foundation and plinth of inner walls / in plinth of external walls including bailing out water manually, striking joints on an exposed faces and watering etc complete (Crushed sand VSI Grade)	22.00	1.70	37.40	0.00	0.00	1.16	25.52
40	Providing Hard Murum cohesive non-swelling materials in plinth in layers of 20 cms etc. complete as directed. [Only compacted thickness is payable]	1124.14				1.20	93.09	
42	Providing & laying stone metal layer of 20 cm thickness with 60 mm over size metal 65% and 40 mm size metal 35% with sand or stone chips spreading & leveling handpacking complete	235.20			1.32	45.66		

Sub Work II Internal Road									
6	Providing soiling using 80 mm size trap metal in 15 cm. layer including filling voids with	233.00			1.32	10.98			
7	Supplying 80 mm trap stone metal at the road side including conveying & stacking etc.	201.00			1.32	32.96			
8	Supplying 40 mm trap stone metal at the road side including conveying & stacking etc.	134.00			1.32	12.68			
11	Supplying hard murum/ kankar at the road site, including conveying and stacking	85.00				1.20	102.00		
25	Providing uncoursed rubble masonry of trap / granite / quartzite / gneiss stones in cement	9.00	1.70	15.30		0.00		1.16	10.44
31	Supplying & spreading Hard murum for cushioning of R.C.C. pipe including watering	14.00				1.20	16.80		
34	Providing earth work in embankment with approved materials obtained from other	638.00				1.20	150.78		
	Total		52.70			101.78		362.67	35.96

[Handwritten Signature]

SAHIL V. PANDIT
 PANDIT ASSOCIATES
 MND/VPP/C 5/ADTPN/03/2417
 S.No-216, Kasliwal Project
 Aanand Nagar Road, NANDED

Sr. No	Required Quantity in Cum Particular	Royalty	Distt. Mineral		Total Rate	Amount
			Surcharge	Foundation Ceas		
1	SAND	44.58	2%	10%	237.384	10582.58
2	METAL Hand broken	101.78	4.24		216.19	22003.82
3	MURUM	362.67	4.24		216.19	78405.63
4	RUBBLE	35.96	4.24		216.19	7774.19
					Total Amount Rs.	118766.22

MAHARASHTRA STATE WAREHOUSING CORPORATION

583/B, Market Yard, Gultekadi, Pune 411 037.

S. W. V:- Material Lab Testing charges

STANDARD ESTIMATE FOR CONSTRUCTION OF 1/2000 MT CAPACITY PRE ENGINEERED WH BLDG WITH ANCILLARY WORKS
Statement showing the details of requirement of Lab. Tests to be carried out:-

Sr. No.	Particulars	Quantity	Unit	Tests to be carried out	Nos. of tests	Rate per test	Amount	Remarks
1	Cement	1700	Bags	Cement- Fineness, Standard Consistency, Setting Time (Initial & Final), Compressive strength, Soundness	1	7540	9900	one test per 1000 Bags
2	Concrete M-10 grade	43.00	cum	M10- Concrete cube compressive strength (Set of 3 Cubes)	3	1380	4140	1 test for 15 cum
3	Concrete M-25 grade	170.00	cum	Mix Design M-25 with all tests on basic materials	1	1380.00	1380	One per 500 cum of concrete
5	Crushed metal for concrete	170.00	cum	Metal - Water absorption, Specific gravity, Impact value, Crushing value	1	5200	5200	one test per 200 cum
				Metal- Gradation	1	1380.00	1380	one test per 200 cum
				Metal - Combined Flakiness & Elongation of single metal	1	1700	1700	one test per 200 cum
6	Bricks	129.00	cum	Bricks- Crushing value, Water absorption, & Specific Gravity	1	4350	4350	one test per 50000 Nos. of bricks or part.
7	Masonry stones	31.00	cum	Stone - Crushing value/Compressive strength, water absorption & Specific Gravity	1	4040	4040	one test per source
8	TMT steel bars	18.30	M.T.	Steel - Tensile strength, Yield stress, ultimate tensile stress, %elongation, weight per running meter, Bend/Rebend test. (Set of 3 Bars)	4	2550	10200	1 test per 5.00 M.T. and one for each dia. Of use bar
9	Sand	0.00	cum	Sand - Fineness Modulus, silt & clay content.	1	2760	2760	1 test per source
10	Murum in plinth	1124.14	cum	Murum - Plasticity Index	1	2340	2340	1 test per 1000 Cum.
Murum - Field Density of compacted layer				2	2230	4460	1 test per 250 Sq.m	
Murum - Proctor Test				1	3720	3720	1 test per 1000 Cum.	
11	Earthwork For embankment (H.M/S.M.)	638.00	cum	Earthwork- Gradation	2	1380	2760	1 test per 400 Cum.
Earthwork- Plasticity Index				2	2340	4680	1 test per 400 Cum.	
Earthwork- Moisture content prior to compaction				2	1590	3180	1 test per 400 Cum.	
Earthwork- Density of compacted layer				1	2230	2230	1 test per 1000 Sq.m	
Earthwork- Proctor Test				1	3720	3720	2 test per 3000 Cum.	
12	Metal for Road/ Filling metal in plinth	568.00	cum	Road - Basic test on aggregates Water absorption, specific gravity, impact value/crushing value	3	1380	4140	one test per 200 cum
Road - Gradation				3	1380	4140	one test per 200 cum	
Road - Combined Flakiness & Elongation				3	1700	5100	one test per 200 cum	
Road - Strpping Value for Bituminious Work				2	1490	2980	one test per 400 cum	
				TOTAL			88500	

[Handwritten Signature]
 RAJESH K. SHINDE
 RAJESH K. SHINDE & ASSOCIATES
 CIVIL ENGINEERS
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