

Irsshad J. Quazi

Chartered Engineer,
Approved Valuer, FIV, Cat – I/F-2539
M. Tech Civil (Structural)

Office address

1 st Floor Hora Complex, Near Prabhat
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Mob.No. 98226 43439

SUMMARY SHEET

NAME OF WORK:- PROPOSED CONSTRUCTION OF MACHINE SHED FOR "VIDARBHA NAISARGIK SHETMAL UTPADAK KISAN PRODUCER COMPANY", AT MOUZA KHAIRGAON, GAT NO. 21/105, KHAIRGAON, POST. WAIGAON, TAH. SAMUDRAPUR, DIST. WARDHA.
(Capacity 151.72 MT. & Built up area = 88.00 Sqmt.)

Sr. No.	<u>DESCRIPTION</u>	<u>PERCENTAGE</u>	<u>AMOUNT</u>
1	Estimate Cost (Machine Shed)	As Per Estimate	1250669.54
3	Add For Electrification	2%	25013.39
4	Add For Royalty/Rate Analysis Charge	2%	25013.39
5	Add For Lab Testing Charges	As Per Calculations	23675.00
6	Total Cost	:-	1324371.32
	Add GST Charge		180386.80
	Total	Rs.	1504758.16
7	Add Insurance	:-	7813.79
	Total Amount	Rs.	1512571.95
	Say	Rs.	15,12,571/-
(Rs. Fifteen Lac Twelve Thousand Five Hundred & Seventy One Only.)			
Note - The Estimate Is Based on S.S.R. 2022-23			


QUAZI ASSOCIATES
IRSSHAD J. QUAZI
M. TECH STRUCTURE (CIVIL) FIV,AIV
Govt. Approved Valuer Cat No.I/f-2539
LIC. No.-ADTP/GONDIA/ER/15

ABSTRACT SHEET

NAME OF WORK :- PROPOSED CONSTRUCTION OF MACHINE SHED FOR
""VIDARBHA NAISARGIK SHETMAL UTPADAK KISAN PRODUCER COMPANY",
AT MOUZA KHAIRGAON, GAT NO. 21/105, KHAIRGAON, POST. WAIGAON,
TAH. SAMUDRAPUR, DIST. WARDHA.

(Capacity 151.72 MT. & Built up area = 88.00 Sqmt.)

Sr.No.	PARTICULARS	UNIT	QTY	RATE	AMOUNT
1	Excavation for foundation earth, soils of all types, sand, gravel & soft murum, including removing the excavation material up to a distance of 50 m and necessary back filling, raming, watering, including shoring & strutting as necessary complete.SSR No. 21.01, Page No. 153	Cum	69.360	239.00	16577.04
2	Providing and laying in situ cement concrete in 1:4:8 of trap/granite/quartzite/gneiss metal for foundation andfor rendering uneven and honey combed surface only. Newly laid concrete shall be covered by gunny bag,plastic, trapaulin etc.SSR No. 24.01, Page No. 175	Cum	11.360	5538.00	62911.68
3	Providing and laying in situ/Ready Mix concrete M20 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 stanchion etc. including bailing out water, Steel centering formwork, laying/pumping cover blocks, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, with fully automatic microprocessor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade) . SSR No. 25.11, Page No. 178	Cum	6.750	7104.00	47952.00

4	<p>Providing and laying Cast in situ/Ready Mix concrete M-20 of trap/granite/quartzite/gneiss metal for R.C.C. columns as per detailed designs and drawings 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. (Excluding reinforcement and structural steel). with fully automatic microprocessor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade). SSR No. 25.31, Page No. 179</p>	Cum	11.273	13783.00	155368.87
5	<p>Providing and laying Cast in situ/Ready Mix concrete M20 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 microprocessor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade). ssr item no. 25.50, Page No. 181</p>	Cum	3.892	12269.00	47746.04
6	<p>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 exposed faces, raking out joints on exposed faces and watering etc. Complete. Ssr Item No. 27.01, Page No. 197</p>	Cum	7.593	7755.00	58881.85

7	ProvidingsecondclassBurntBrickmasonry withconventional/I.S.typebricksincementmortar1:6insuperstructureincludingstrikingjoints,rakingoutjoints,wateringandscaffolding etc. Complete. Ssr Item No. 27.05, Page No. 197	Cum	26.712	7994.000	213537.33
8	ProvidingandlayingCastinsitu/ReadyMixcementconcreteinM20oftrap/granite/quartzite/gneissmetalforR.C.C.copingtoplinthorparapetandsillofdoorsandwindowsmouldedasperdetaileddrawingsorchamferedasapprovedbytheEngineerincludingsteelcentering,formwork,coverblocks,laying/pumping,compacting,curing,finishingandrougheningthem ifspecialfinishistobeprovidedandcuringcomplete.(Excludingreinforcementandstructuralsteel).withfullyautomaticmicroprocessorbasedPLCwithSCADAenabledreversibleDrumTypemixer/concreteBatchmixplant(Panmixer)etc.complete. With fine aggregate (Crushed sand VSI Grade), Ssr Item No.26.23, Page No. 185	Cum	0.844	7190.00	6065.77
9	Filling in plinth and floors with contractors approved material/sand or murum in 15 to 20 CM layer including watering and compaction complete.Ssr Item No 21.37, Page No. 157	Cum	50.371	599.00	30172.35
10	Providinginternalcementplaster12mmthick insinglecoatincementmortar1:5withoutneer ufinishtoconcreteorbricksurfaces,inallpositionsincluding scaffoldingandcuringetc.com plete.Ssr Item No. 32.03, Page No. 209	Sqm	112.920	271.00	30601.32

11	Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15mm thick in cement mortar 1:4 using waterproofing compound at 1 Kilogram 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 8mm thick in cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen days scaffolding etc. complete. Ssr Item No. 32.11, Page No. 209	Sqm	119.360	639.00	76271.04
12	Providing and fixing in position TMT-FE500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels, 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. Ssr Item No. 26.33, Page No. 188	Mt.	1.753	89703.00	157260.84
13	Providing and laying cement concrete flooring 50mm thick with M20 cement concrete laid to proper level and slope in alternate bays including compaction, filling joints, marking lines to give the appearance of tiles of 30cm x 30cm or other size laid diagonally/square etc. finishing smooth (with extracement) in any colour as directed and curing etc. complete. With Crushed Sand. Ssr Item No.33.16 , Page No. 214	Sqm	79.564	483.00	38429.22
14	Providing and applying two coats of water proof cement paint of approved manufacture and of approved colour to the plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete. Ssr Item No. 35.13, Page No. 224	Sqm	232.280	79.00	18350.12

15	<p>Providing and fixing rollings shutter fabricated from steel laths of minimum thickness 0.9mm with lock plate of 3.15mm thickness reinforced with 35x35x5mm angle section fitted with sliding bolts and handles for both sides, deep M.S. channel section of depth and thickness not less than 65mm and 3.15mm respectively with old fast arrangements, M.S. Bracket plate 300x300x3.15mm minimum size and shape with square bar, suspension shaft of minimum 32mm diameter, hood cover of M.S. sheet not less than 0.9mm 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) (Without mechanical gear. Ssr Item No.39.24 Page. No. 248</p>	Sqm	9.000	4829.00	43461.00
16	<p>Providing structural steel work in trusses, purlins and members with all bracing, gusset plates etc. as per detail drawing or as directed including cutting, fabricating, hoisting, erecting,, fixing in position, making riveted/bolted/ welded connection and one coat of anticorrosive paint and over it two coat of oil painting of approved quality and shade complete. Ssr item no. 23.04 Page No. 173</p>	M.T.	1.130	119459.00	134988.67
17	<p>Providing and fixing 22B.W.G. plain galvanized iron sheets on top of weather shed, including scaffolding, fixing by means of nut and bolts or as directed etc. complete. (Bracket of 70 x 45 mm to be paid separately) SSR Item No.39.88, Page No. 263</p>	RMT	88.000	1052.00	92576.00
18	<p>Providing and fixing valley gutter of 22B.W.G. (0.8mm) plain galvanized iron sheets 90cm wide with teak wood planking 20mm thick including two coats of coal tarring the upper surface of plank etc. complete. (excluding painting to underside of plank). SSR Item No. 38.09 Page No. 233</p>	Rmt.	8.800	2218.00	19518.40

			Total	Rs.	1250669.54
	<u>LAB TESTING</u>				
1	Mix Design M-20 Concrete	Nos.	1	13755.00	13755
	<u>CEMENT</u>				
2	Standard Consistency, Fineness, Specific Gravity, Setting Time (Initial & Final), Compressive Strength, Soundness.	Nos.	1	3770.00	3770
	<u>AGGREGATE</u>				
3	Water Absorption, Specific Gravity, Impact Value, Crushing Value	Nos.	1	2600.00	2600
	<u>BRICKS</u>				
4	Water Absorption (Set of 5 Bricks), Compressive Strength(Set of 5 Bricks), Efflorescence (Set of 5 Bricks).	Nos.	1	2170.00	2170
	<u>CONCRETE</u>				
5	Compressive Strength M-30, M-20.(Set of 3 Cubes)	Nos.	1	690.00	690
	<u>MORTOR</u>				
6	Compressive Strength.(Set of 3 Cubes)	Nos.	1	690.00	690
7	STEEL BAR TESTING Upto 12 mm, 16 mm, 20 mm (Set of 3 Bars)	Nos.	1	1275.00	1275
				Total	23675.0


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NAME OF WORK :- PROPOSED CONSTRUCTION OF MACHINE SHED FOR "VIDARBHA NAISARGIK SHETMAL UTPADAK KISAN PRODUCER COMPANY", AT MOUZA KHAIRGAON, GAT NO. 21/105, KHAIRGAON, POST. WAIGAON, TAH. SAMUDRAPUR, DIST. WARDHA. (Capacity 151.72 MT. & Built up area = 88.00 Sqmt.)								
Sr. No	PARTICULARS	Nos	L(M)	B(M)	H/D(M)	QTY(Cum)	RATE	AMOUNT
1	Excavation for foundation earth, soils of all types, sand, gravel & soft murum, including removing the excavation material up to a distance of 50 m and necessary back filling, raming, watering, including shoring & strutting as necessary complete.SSR No. 21.01, Page No. 153							
	C.1	10	1.70	1.70	2.40	69.360		
						69.360	239	16577.0
						Cum		
2	Providing and laying in situ cement concrete in 1:4:8 of trap/granite/quartzite/gneiss metal for foundation andfor rendering uneven and honey combed surface only. Newly laid concrete shall be covered by gunny bag,plastic, trapaulin etc.SSR No. 24.01, Page No. 175							
	C.1	10	1.60	1.60	0.10	2.560		
	Floor bed	1	8.80	10.00	0.10	8.800		
						11.360	5538	62911.68
						Cum		
3	Providing and laying in situ/Ready Mix cement concrete M20 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 stanchion setc. including bailing out water, Steel centering formwork, laying/pumping cover blocks, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, with fully automatic microprocessor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade) . SSR No. 25.11, Page No. 178							
		10	1.50	1.50	0.30	6.750		
						6.750	7104	47952
4	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, (Excluding reinforcement and structural steel). with fully automatic microprocessor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade). SSR No. 25.31, Page No. 179							

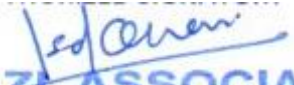
Sr. No	PARTICULARS	Nos	L(M)	B(M)	H/D(M)	QTY(Cum)	RATE	AMOUNT
	a) below G.L. C.1	10	0.30	0.45	1.85	2.498		
	a) above G.L. C.1	10	0.30	0.45	6.50	8.775		
						11.273	13783	155368.87
						Cum		
5	Providing and laying Cast in situ/Ready Mix cement concrete M20 of trap/granite/quartzite/gneiss metal for R.C.C. beams and lintels as per detailed designs and drawings 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 microprocessor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade). ssr item no. 25.50, Page No. 181							
	A) at ground level	2	8.80	0.23	0.45	1.822		
		2	10.00	0.23	0.45	2.070		
						3.892	12269	47746.04
						Cum		
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. Ssr Item No. 27.01, Page No. 197							
		2	8.80	0.23	0.90	3.643		
		2	9.54	0.23	0.90	3.950		
						7.593	7755	58881.8538
						Cum		
7	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. Ssr Item No. 27.05, Page No. 197							
		2	8.80	0.23	3.50	14.168		
		2	9.54	0.23	3.50	15.359		
						29.527		
	Deduction							
	shutter	1	3.00	0.23	3.00	2.070		
	ventilator	9	0.60	0.23	0.60	0.745		
						2.815		
			29.5	2.82		26.712	7994	213537.33
						Cum		

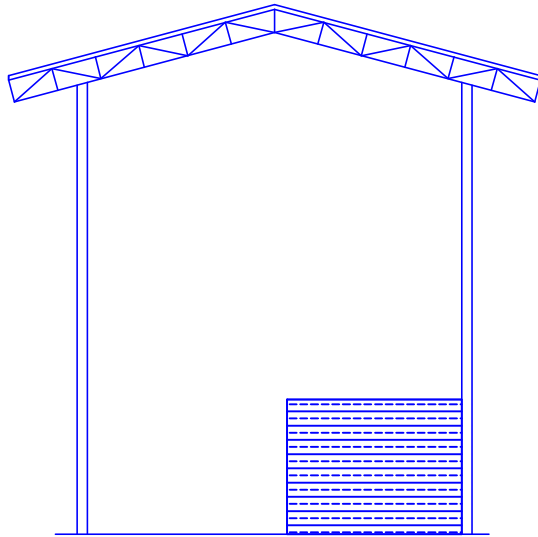
Sr. No	PARTICULARS	Nos	L(M)	B(M)	H/D(M)	QTY(Cum)	RATE	AMOUNT
8	Providing and laying Cast in situ/Ready Mix cement concrete in M20 of trap/granite/quartzite/gneiss metal for R.C.C. coping to plinth or parapet and sill of doors and windows moulded as per detailed drawings or chamfered as approved by the Engineer including steel centering, formwork, cover blocks, laying/pumping, compacting, curing, finishing and roughening them if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel), with fully automatic microprocessor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade), Ssr Item No.26.23, Page No. 185							
	1 To plinth							
		2	8.80	0.23	0.100	0.405		
		2	9.54	0.23	0.100	0.439		
						0.844	7190	6065.7716
						Cum		
9	Filling in plinth and floors with contractors approved material/sand or murum in 15 to 20 CM layer including watering and compaction complete. Ssr Item No 21.37, Page No. 157							
	Floor bed							
		1	8.80	9.54	0.60	50.371		
						50.371	599.00	30172.35
						Cum		
10	Providing internal cement plaster 12mm thick in single coat in cement mortar 1:5 without neeru finish to concrete or brick surfaces, in all positions including scaffolding and curing etc. complete. Ssr Item No. 32.03, Page No. 209							
		2	8.34		3.50	58.380		
		2	9.54		3.50	66.780		
						125.160		
	Deduction							
	shutter	1	3.00		3.00	9.000		
	ventilator	9	0.60		0.60	3.240		
						12.240		
			125.2	12		112.92	271	30601.32
						Sqm		

Sr. No	PARTICULARS	Nos	L(M)	B(M)	H/D(M)	QTY(Cum)	RATE	AMOUNT
11	Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15mm thick in cement mortar 1:4 using water proofing compound at 1 Kilogram 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 8mm thick in cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen days scaffolding etc. complete. Ssr Item No. 32.11, Page No. 209							
		2	8.80		3.50	61.60		
		2	10.00		3.50	70.00		
						131.60		
	Deduction							
	shutter	1	3.00		3.00	9.000		
	ventilator	9	0.60		0.60	3.240		
						12.240		
			132	12.24		119.36	639	76271.04
						Sqm		
12	Providing and fixing in position TMT- FE500 bar reinforcement of various diameters for R.C.C. pillars, footings, foundations, slabs, beams, columns, canopies, staircase, newels, chajjas, lintels, parapets, 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. Ssr Item No. 26.33, Page No. 188							
	Footing		6.75	80.0		540.000		
	Column		11.27	80.0		901.80		
	Beam		3.89	80.0		311.328		
						1753.1		
						1.753	89703	157260.84
						Mt		
13	Providing and laying cement concrete flooring 50mm thick with M20 cement concrete laid to proper level and slope in alternate bays including compaction, filling joints, marking lines to give the appearance of tiles of 30cm x 30cm or other size laid diagonally/square etc. finishing smooth (with extra cement) in any colour as directed and curing etc. complete. With Crushed Sand. Ssr Item No. 33.16, Page No. 214							
		1	8.34	9.54		79.564	483.00	38429.22
						Sqm.		

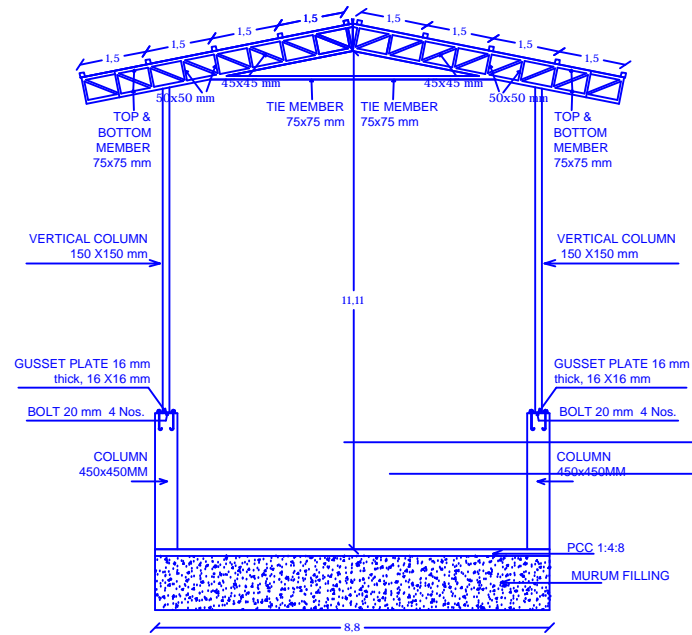
Sr. No	PARTICULARS	Nos	L(M)	B(M)	H/D(M)	QTY(Cum)	RATE	AMOUNT
14	Providing and applying two coats of water proof cement paint of approved manufacture and of approved colour to the plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete. Ssr Item No. 35.13, Page No. 224							
						232.28	79.00	18350.12
						Sqm.		
15	Providing and fixing rollings shutter fabricated from steel lath of minimum thickness 0.9mm with lock plate of 3.15mm thickness reinforced with 35x35x5mm angle section fitted with sliding bolts and handles for both sides, deep M.S. channel section of depth and thickness not less than 65mm and 3.15mm respectively with hold fast arrangements, M.S. Bracket plate 300x300x3.15mm minimum size and shape with square bar, suspension shaft of minimum 32mm diameter, hood cover of M.S. sheet not less than 0.9mm 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) (Without mechanical gear. Ssr Item No.39.24 Page. No. 248							
		1	3.00		3.00	9.000	4829.0	43461.00
						Sqm		
16	Providing structural steel work in trusses, purlins and members with all bracing, gusset plates etc. as per detail drawing or as directed including cutting, fabricating, hoisting, erecting, fixing in position, making riveted/bolted/ welded connection and one coat of anticorrosive paint and over it two coat of oil painting of approved quality and shade complete. Ssr item no. 23.04 Page No. 173							
	Truss	4	@	200		800		
	Purlins	3	@	110		330		
						1130.0		
						1.130	119459	134988.67
						M.T.		
17	Providing and fixing 22B.W.G. plain galvanized iron sheets on top of weather shed, including scaffolding, fixing by means of nut and bolts or as directed etc. complete. (Bracket of 70 x 45 mm to be paid separately) SSR Item No.39.88, Page No. 263							
		1	8.80	10.00		88.000		
						88.00	1052.0	92576.00
						Sqm		

Sr. No	PARTICULARS	Nos	L(M)	B(M)	H/D(M)	QTY(Cum)	RATE	AMOUNT
18	Providing and fixing valley gutter of 22 B.W.G.(0.8mm) plain galvanised iron sheets 90cm wide with teak wood planking 20mm thick including two coats of coal tar on the upper surface of plank etc. complete. (excluding painting to underside of plank). SSR Item No. 38.09 Page No. 233							
		1	8.80			8.800	2218.0	19518.40
							Rmt.	
						Total	Rs.	1250669.54

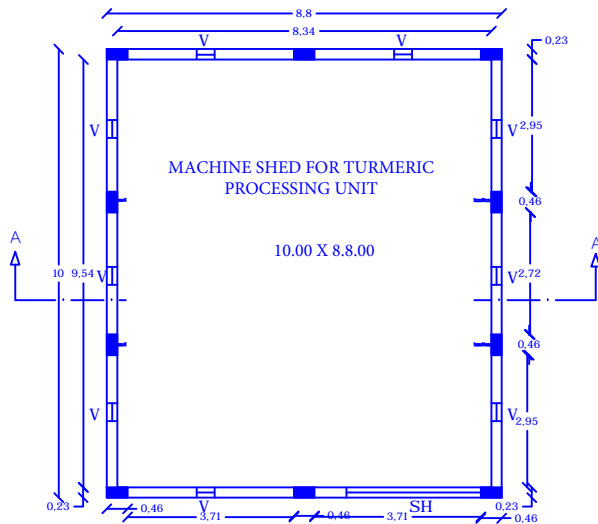

QUAZI ASSOCIATES
IRSHAD J. QUAZI
M. TECH STRUCTURE (CIVIL) FIV, AIV
Govt. Approved Valuer Cat No. I/f-2539
LIC. No.-ADTP/GONDIA/ER/15



ELEVATION



SECTION A-A



Machine PLAN
SCALE 1:100

AREA STATEMENT

SHED BUILT UP AREA = 88.00 SQMT.
(947.23 SQFT.)

CAPACITY - 151.72 MT.

COLUMN SIZE = 0.30 X 0.45

OPENING SCHEDULE

R.S.D. ROLLING SHUTTER DOOR - 3.00x3.00

V VENTILATOR - 0.60x0.60

PROPOSED MACHINE SHED PLAN BELONGS TO "VIDARBHA NAISARGIK SHETMAL UTPADAK KISAN PRODUCER COMPANY" SITUATED AT MOUZA KHAIRGAON, GAT NO. 21/105, KHAIRGAON, POST. WAIGAON, TAH. SAMUDRAPUR, DIST. WARDHA.

NOTE :- ALL DIMENSIONS ARE IN METRE IN SCALE 1:100

SANCTION AUTHORITY

OWNER'S SIGN.

ENGINEER SIGN.

Ed. Quazi
QUAZI ASSOCIATES
IRSSHAD J. QUAZI
M. TECH STRUCTURE (CIVIL) FIV,AIV
Govt. Approved Valuer Cat No./f-2539
LIC. No.-ADTP/GONDIA/ER/15