

Irsshad J. Quazi

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

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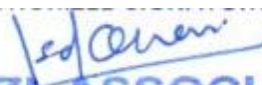
SUMMARY SHEET

NAME OF WORK:- PROPOSED CONSTRUCTION OF MACHINE SHED FOR "ANTARANG FARMER PRODUCER COMPANY LIMITED" SITUATED AT MOUZA BORDA (GANESHI), GAT NO. 41/1, BLOCK PARSHIONI, DIST. NAGPUR. (Built up area = 450.00 Sqmt. Or 4843.80 Sqft.)

Sr. No.	<u>DESCRIPTION</u>	<u>PERCENTAGE</u>	<u>AMOUNT</u>
1	Estimate Cost (Machine shed)	As Per Estimate	6051466.40
3	Add For Electrification	5%	302573.32
4	Add For Royalty/Rate Analysis Charge	5%	302573.32
5	Add For Lab Testing Charges	As Per Calculations	24955.00
6	Total Cost	:-	6681568.03
	Add 18% for GST Charge		1202682.25
	Total	Rs.	7884250.28
7	Add 0.5% For Insurance	:-	39421.25
	Total Amount	Rs.	7923671.53
	Say	Rs.	79,23,671/-

(Rs. Seventy Nine Lac Twenty Three Thousand Six 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 "ANTARANG FARMER PRODUCER COMPANY LIMITED" SITUATED AT MOUZA BORDA (GANESHI), GAT NO. 41/1, BLOCK PARSHIONI, DIST. NAGPUR.

(Built up area = 450.00 Sqmt. Or 4843.80 Sqft.)

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	194.208	239.00	46415.71
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	52.160	5538.00	288861.86
3	Providing and laying in situ / Ready Mix cement concrete M20 of trap /granite /quartzite /gneiss metal for R.C.C. work in foundation slikeraft ,strip foundations ,grillage and footing sof R.C.C. column sand steel stanchions etc.including bailingout water, Steel centering formwork, laying /pumping coverblocks, compaction and curing roughening the surface if special finishiso be provided (Excluding reinforcement and structural steel) etc. complete, withfully automatic micro processor based PLC with SCADA enable dreversible Drum Type mixer/ concrete Batch mixplant (Panmixer) etc. complete. With fine aggregate (Crushed sand VSI Grade) . SSR No. 25.11, Page No. 178	Cum	18.900	7104.00	134265.60

4	<p>Providing and laying Castinsitu/ Ready Mix cement concrete M-20 of trap/ granite/ quartzite/ eissmetal for R.C.C. column sasper detailed design sand drawing oras directed including steel centering, formwork, coverblocks, laying/ pumping, compaction finishing the formed surface swithcemen tmortar 1:3 of sufficient minimum thickness to givea smooth and even surface orroughening if special finishis 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/ c oncrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade).SSR No. 25.31, Page No. 179</p>	Cum	44.113	13783.00	608003.97
5	<p>Providing and laying Cast in situ / Ready Mix cement concrete M20 of trap/ granite/ quartzite/ gneiss metal for R.C.C. beam sand lintels as per detailed design sand drawing soras directed including steel centering, ormwork, coverblocks, laying/ pumping, compaction and roughening the surface if specia finishis to be provided and curing etc. complete. (Excluding reinforcement and structural steel). with fully automatic microprocessor based PLC with SCADA enabled reversible Drum Typemixer/ 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	8.808	12269.00	108063.51

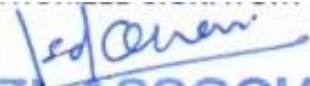
6	Providing second class Burnt Brick masonry with conventional /I.S. type brick and cement mortar 1:6 in foundation and plinth of inner walls/ in plinth external walls including bailing out water manually, striking joints on exposed faces, raking out joints on exposed faces and watering etc. Complete. Ssr item No. 27.01, Page No. 197	Cum	17.616	7755.00	136609.75
7	Providing second class Burnt Brick masonry with conventional /I.S. type brick and cement mortar 1:6 in super structure including striking joints, raking out joints, watering and scaffolding etc. Complete. Ssr Item No. 27.05, Page No. 197	Cum	86.009	7994.000	687551.95
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 window moulded as per detailed drawings or chamfered as approved by the Engineer including steel centering, formwork, coverblocks, laying/ pumping, compacting, curing, finishing and roughening the surface finish to be provide and curing complete. (Excluding reinforcement and structural steel). with fully automatic microprocessor based PLC with SCADA enable 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	Cum	1.957	7190.00	14072.99
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	269.952	599.00	161701.10

10	Providing internal cement plaster 12 mm 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 . sr Item No. 32.03, Page No. 209	Sqm	365.670	271.00	99096.57
11	Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in cement mortar 1:4 using water proofing compound at 1 Kilo gram per cement bag curing the same for not less than 2 day sand keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8 mm thick in cement mortar 1:4 finishing the surface by taking out grain sand curing for fourteen days scaffolding etc.compl etc. Ssr Item No. 32.11, Page No. 209	Sqm	373.950	639.00	238954.05
12	Providing and fixing in position TMT - FE 500 barreinforcement of various diameter for R.C.C. pilecaps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintel spandis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tackwelding and supporting as required complete. Ssr Item No. 26.33, Page No. 188	Mt.	19.032	89703.00	1707265.10
13	Providing and laying cement concrete flooring 50 mm thick with M20 cement concrete laid to proper level and slope in alternate bays including compaction, filling joints, marking line to give the appearance of tiles of 30 cm x 30 cm 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	Sqm	430.558	483.00	207959.61

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	739.620	79.00	58429.98
15	Providing and fixing rolling shutter fabricated from steellaths of minimum thickness 0.9 mm with lock plate of 3.15 mm thick ness 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 thick ness not less than 65 mm and 3.15 mm respectively with hold fastarrangements , M.S. Bracketplate 300x300x3.15 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 thick ness and of any size attopand safety device sincluding mechanicalgear operation arrangement consisting of wormgear wheels and worm sofhigh gradecastiro no rmild steel and one coat of redlead primeretc. complete. (I.S. 62481979) (Without mechanical gear.Ssr Item No.39.24 Page. No. 248	Sqm	9.000	4829.00	43461.00
	thick ness and of any size attopand safety devices including mechanicalgear operation arrangement consisting of worm gearwheels and worms of high grade castironor mild steel and one coat of redlead primeretc. complete. (I.S. 62481979) (Without mechanical gear.Ssr Item No.39.24 Page. No. 248				

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	M.T.	8.320	119459.00	993898.88
17	Providing and fixing 22B. W. G. plain galvanised iron sheets on top of weathershed, including scaffolding, fixing by mean sofnutand bolts or as directed etc. complete. (Brackets of 70 x 45 mm to be paid separately) SSR Item No.39.88, Page No. 263	RMT	449.920	1052.00	473315.42
18	Providing and fixing valley gutter of 22B. W.G. (0.8 mm) plain galvani sediron sheets 90 cm wide with teak wood planking 20 mm thick including twocoat sofcoaltarring the upper surface of plank etc. complete. (excluding painting to underside of plank). SSR Item No. 38.09 Page No. 233	Rmt.	19.630	2218.00	43539.34
			Total	Rs.	6051466.40
	<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	2175.00	2175
	<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	24955.0


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<u>NAME OF WORK</u> :- PROPOSED CONSTRUCTION OF MACHINE SHED FOR "ANTARANG FARMER PRODUCER COMPANY LIMITED" SITUATED AT MOUZA BORDA (GANESHI), GAT NO. 41/1, BLOCK PARSHIONI, DIST. NAGPUR. (Built up area = 450.00 Sqmt. Or 4843.80 Sqft.)								
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	28	1.70	1.70	2.40	194.208		
						194.208	239	46415.7
						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	28	1.60	1.60	0.10	7.168		
	Floor bed	1	22.92	19.63	0.10	44.992		
						52.160	5538	288861.8585
						Cum		
3	Providing and laying in situ / Ready Mix cement concrete M20 of trap /granite /quartzite /gneiss metal for R.C.C. work in foundation slikeraft ,strip foundations ,grillage and footing sof R.C.C. column sand stee l stanchions etc.including bailingout water, Steel centering formwork, laying /pumping coverblocks, compaction and curing roughening the surface if special finishiso be provided (Excluding reinforcement and structural steel) etc. complete, withfully automatic micro processor based PLC with SCADA enable dreversible Drum Type mixer/ concrete Batch mixplant (Panmixer) etc. complete. With fine aggregate (Crushed sand VSI Grade) . SSR No. 25.11, Page No. 178							
		28	1.50	1.50	0.30	18.900		
						18.900	7104	134265.6

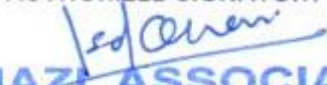
Sr. No	PARTICULARS	Nos	L(M)	B(M)	H/D(M)	QTY(Cum)	RATE	AMOUNT
4	Providing and laying Castinsitu/ Ready Mix cement concrete M-20 of trap/ granite/ quartzite/ eissmetal for R.C.C. column sasper detailed design sand drawing oras directed including steel centering, formwork, coverblocks, laying/ pumping, compaction finishing the formed surface swithcemen tmortar 1:3 of sufficient minimum thickness to givea smooth and even surface orroughening if special finishis 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/ c oncrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade).SSR No. 25.31, Page No. 179							
	a) below G.L. C.1	28	0.30	0.45	1.00	3.780		
	a) above G.L. C.1	28	0.30	0.45	10.67	40.333		
						44.113	13783	608003.97
						Cum		
5	Providing and laying Cast in situ / Ready Mix cement concrete M20 of trap/ granite/ quartzite/ gneiss metal for R.C.C. beam sand lintels as per detailed design sand drawing soras directed including steel centering, ormwork, coverblocks, laying/ pumping, compaction and roughening the surface if specia finishis to be provided and curing etc. complete. (Excluding reinforcement and structural steel). with fully automatic microprocessor based PLC with SCADA enabled reversible Drum Typemixer/ 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	22.92	0.23	0.45	4.744		
		2	19.63	0.23	0.45	4.063		
						8.808	12269	108063.51
						Cum		
6	Providing second clas sBurnt Brick masonry withconventional /I.S. type brick sincement mortar 1:6 in foundation sand plinth of in ner walls/ in plinth external walls including bailing out water manually,striking joints onun exposed faces, raking out joints onex posed faces and watering etc. Complete .Ssr item No. 27.01,Page No. 197							
		2	22.92	0.23	0.90	9.489		
		2	19.63	0.23	0.90	8.127		
						17.616	7755	136609.7535
						Cum		

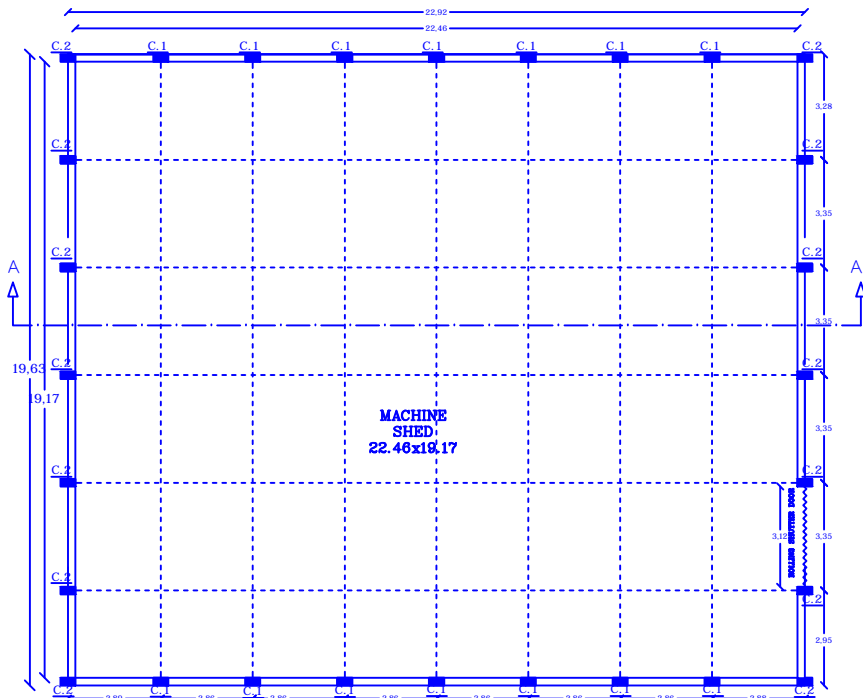
Sr. No	PARTICULARS	Nos	L(M)	B(M)	H/D(M)	QTY(Cum)	RATE	AMOUNT
7	Providing second class Burnt Brick masonry with conventional /I.S. type brick sincement mortar 1:6 in super structure in cluding striking joints, rakingout joints, watering and scaffolding etc. Complete. Ssr Item No. 27.05, Page No. 197							
		2	22.92	0.23	4.50	47.444		
		2	19.63	0.23	4.50	40.634		
						88.079		
	Deduction shutter	1	3.00	0.23	3.00	2.070		
						2.070		
			88.1	2.07		86.009	7994	687551.95
						Cum		
8	Providing and laying Cast in situ/ Ready Mix cement concretein M20 of trap/ granite/ quartzite/ gneiss metal for R.C.C. coping to plinth or parapet and sill of doors and window smoulded as per detailed drawings or chamfered as approved by the Engineer including steel centering, formwork, coverblocks, laying/ pumping, compacting, curing, finishing an droughening the mifspecial finishis to be provide dand curing complete. (Excluding reinforce mentand structural steel). with fully automatic microprocessor based PLC with SCADA enable dreversible Drum Typemixer/ concrete Batch mixplant (Panmixer) etc .complete. With fine aggregate (Crushed sand VSI Grade), Ssr Item No.26.23, Page No. 185							
	1 To plinth							
		2	22.92	0.23	0.100	1.054		
		2	19.63	0.23	0.100	0.903		
						1.957	7190	14072.987
						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	22.92	19.63	0.60	269.952		
						269.952	599.00	161701.10
						Cum		
10	Providing internal cement plaster 12 mm 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 . sr Item No. 32.03, Page No. 209							
		2	22.46		4.50	202.140		
		2	19.17		4.50	172.530		
						374.670		
	Deduction							

Sr. No	PARTICULARS	Nos	L(M)	B(M)	H/D(M)	QTY(Cum)	RATE	AMOUNT
	shutter	1	3.00		3.00	9.000		
						9.000		
			374.7	9		365.67	271	99096.57
						Sqm		
11	Providing sand plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in cement mortar 1:4 using water proofing compound at 1 Kilo gram per cement bag curing the same for not less than 2 day sand keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8 mm thick in cement mortar 1:4 finishing the surface by taking out grain sand curing for fourteen days scaffolding etc. complete. Ssr Item No. 32.11, Page No. 209							
		2	22.92		4.50	206.28		
		2	19.63		4.50	176.67		
						382.95		
	Deduction							
	shutter	1	3.00		3.00	9.000		
						9.000		
			383	9.00		373.95	639	238954.05
						Sqm		
12	Providing and fixing in position TMT - FE 500 bar reinforcement of various diameter for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintel spandrels, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tackwelding and supporting as required complete. Ssr Item No. 26.33, Page No. 188							
	Footing		18.90	265.0		5008.500		
	Column		44.11	265.0		11689.84		
	Beam		8.81	265.0		2334.080		
						19032.4		
						19.032	89703	1707265.10
						Mt		
13	Providing and laying cement concrete flooring 50 mm thick with M20 cement concrete laid to proper level and slope in alternate bays including compaction, filling joints, marking line to give the appearance of tiles of 30 cm x 30 cm 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	22.46	19.17		430.558	483.00	207959.61

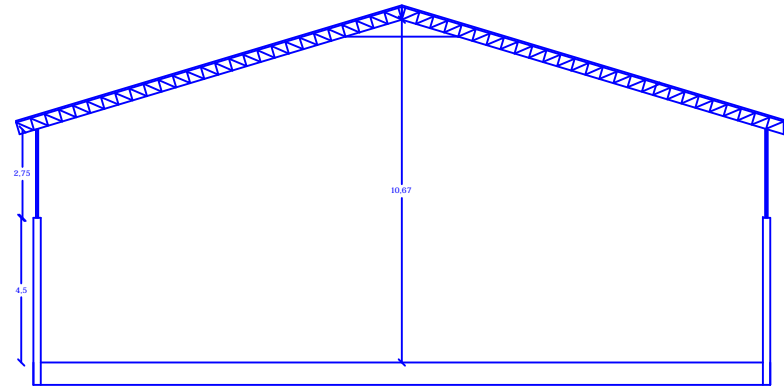
Sr. No	PARTICULARS	Nos	L(M)	B(M)	H/D(M)	QTY(Cum)	RATE	AMOUNT
						Sqm.		
14	Providing and applying two coats of water proof cement paint of approved manufacture and of approved colour to the plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete. Ssr Item No. 35.13, Page No. 224							
						739.62	79.00	58429.98
						Sqm.		
15	Providing and fixing rolling shutter fabricated from steellaths of minimum thickness 0.9 mm with lock plate of 3.15 mm thick ness 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 thick ness not less than 65 mm and 3.15 mm respectively with hold fastarrangements , M.S. Bracketplate 300x300x3.15 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 thick ness and of any size attopand safety device sincluding mechanicalgear operation arrangement consisting of wormgear wheels and worm sohigh gradecastiro no rmild steel and one coat of redlead primeretc. 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	14	@	480		6720		
	Purlins	10	@	160		1600		
						8320.0		
						8.320	119459	993898.88
						M.T.		
17	Providing and fixing 22B. W. G. plain galvanised iron sheets on top of weathershed, including scaffolding, fixing by mean sofnutand bolts or as directed etc. complete. (Brackets of 70 x 45 mm to be paid separately) SSR Item No.39.88, Page No. 263							
		1	22.92	19.63		449.920		
						449.92	1052.0	473315.42
						Sqm		

Sr. No	PARTICULARS	Nos	L(M)	B(M)	H/D(M)	QTY(Cum)	RATE	AMOUNT
18	Providing and fixing valley gutter of 22B. W.G. (0.8 mm) plain galvani sediron sheets 90 cm wide with teak wood planking 20 mm thick including twocoat sofcoaltarring the upper surface of plank etc. complete. (excluding painting to underside of plank). SSR Item No. 38.09 Page No. 233							
		1	19.63			19.630	2218.0	43539.34
							Rmt.	
						Total	Rs.	6051466.4

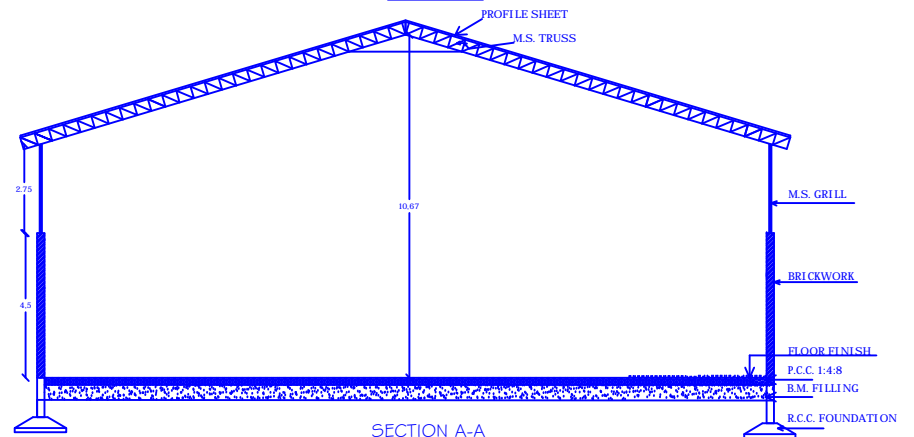

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L.I.C. No.-ADTP/GONDIA/ER/15




MACHINE SHED PLAN
SCALE 1:100



ELEVATION



SECTION A-A

AREA STATEMENT	SANCTION AUTHORITY	ENGINEER SIGN.
TOTAL BUILT UP AREA = 450.00 SQMT. (4843.80 SQFT.)		
PROPOSED CONSTRUCTION OF MACHINE SHED FOR "ANTARANG FARMER PRODUCER COMPANY LIMITED" SITUATED AT MOUZA BORDA (GANESHJI), 6AT NO. 41/1, BLOCK PARSHIONI, DIST. NAGPUR.	OWNER'S SIGN.	 QUAZI ASSOCIATES IRSSHAD J. QUAZI M. TECH STRUCTURE (CIVIL) FIV/AIV Govt. Approved Valuer Cat No.17-2539 L.I.C. No.-ADTP/GONDIA/ER/15