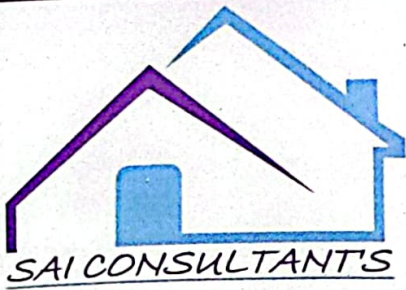


## **ESTIMATE**

**Name of work :- Proposed Construction of 1080MT Warehouse Building Unit In G.no.107 , For Agriva India Hitech Farmers Producer Co.ltd, At-Dasegaon,Tal-Chalisingaon, Dist: Jalgaon (MH)**

**Estimated Cost of Works (Rs.) :- 12901925.00**

**Rupees One Crore Twenty Nine Lakh One Thousand Nine Hundred Twenty Five Only.**



# SAI CONSULTANT'S

Consulting Civil Engineer, Builders & Developers,  
Approved Valuers, Chartered Engineer & Govt. Contractors.

Shop no.2, Shraddha Building, Gokul Colony,  
Collage Road, Rahuri, Tal-Rahuri, Dist-A'Nagar.

Mo.9970253888,9552183333

email -saiconsultants333888@gmail.com

Ref no.

Date:-

Name of work :- Proposed Construction of 1080MT Warehouse Building Unit In G.no.107  
, For Agriva India Hitech Farmers Producer Co.ltd, At-Dasegaon, Tal-Chalisingaon, Dist:  
Jalgaon (MH)

## RECAPITULATION SHEET

1	S.W. I - W.H. Building	Rs.	8904734.00
2	S.W. II - Internal Bituminous roads	Rs.	1495333.00
3	Add Royalty WH + Road	Rs.	271065.16
4	Add Testing Charges	Rs.	23205.00
5	Add.18.00 % GST W.H. Building	Rs	1602852.00
		A) Total Rs.	12297189.16
6	Add. 3% Contingencies on Total	Rs	368916.00
7	Add. 1.00 % Insurance on Part A	Rs.	122972.00
		Total Rs.	12789077.16
8	Sub Work No:-III Electrification	Rs.	93295.00
		Total Rs.	93295.00
9	Add.18.00 % GST On Electrical Work	Rs	16793.00
10	Add. 3% Contingencies on Elecrical	Rs	2760.00
		B) Total Rs.	112848.00
		Grand Total (A+B) Rs.	12901925.16
		Say Rs.	12901925.00

Rupees One Crore Twenty Nine Lakh One Thousand Nine Hundred Twenty Five Only.

  
Chartered Engineer  
Gaurav Rajendra Bhaskar  
B.E.(Civil) A.M.I.E.  
Chartered Engineer  
AM3023322

  
Consulting Engineer  
SAI CONSULTANT  
Consulting Civil Engineer  
Rahuri, Dist. Ahmednagar



Name of work :- Proposed Construction of 1080MT Warehouse Building Unit In G.no.107 , For Agriva India Hitech Farmers Producer Co.ltd, At-Dasegaon,Tal-Chalisgaon, Dist: Jalgaon (MH)

S.W. I - W.H.Building

**ABSTRACT**

Quantity	I.No	Item of work	Rate	unit	Amount
149.52	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 & 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 Mechanical Means	207.00	Cubic Metre	30950.64
65.04	2	Excavation for foundation in Hard murum in cluding removing the excavated material upto adistance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary backfilling, ramming, watering including shoring and strutting etc. complete. (Lift from 1.5 to 3.0m.) By Mechanical Means	284.00	Cubic Metre	18471.36
153.97	3	Providing dry trap/ granite/ quartzite/ gneiss rubble stone soiling 15 cm to 20 cm thick including hand packing and compacting complete. Spec.No. : Bd.A.12 Page No. 264 ;	1884.27	Cubic Metre	290121.05
214.56	4	Filling in plinth and floors with approved excavated material in 15cm. to 20cm. layersincluding watering and compacting etc. complete.	120.00	Cubic Metre	25747.20
194.94	5	Filling in plinth and floors with contractors material/ brought from outside and approved by Engineer in charge in layers of 15 cm to 20 cm including watering and compaction etc.complete.	1047.22	Cubic Metre	204145.07
31.08	6	Providing and filling in the foundation with sand of approved quality including watering, compacting etc. complete. (To be executed with prior approval of Superintending Engineer)	2389.55	Cubic Metre	74267.21
68.47	7	Providing and laying Cast in situ/ Ready Mix cement concrete in 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 microprocess or base dPLCwith SCADA enable dreversible Drum Type mixer/ concrete Batch mix plant (Panmixer) etc.complete. With fine aggregate (Crushed sand VSI Grade)	6346.78	Cubic Metre	434564.03



Quantity	I.No	Item of work	Rate	unit	Amount
42.64	8	Providing and laying in situ cement concrete of M-25 grade of trap / granite/quartzite/gneiss metal for R.C.C. work like raft, grillages, strips, foundations and footings of R.C.C.columns and steel stanchions including bailing-out water manually, including centering formwork of plywood / steel, compaction, covering newly laid concrete by gunny bag, plastic or tarpaulin, finishing the formed surface 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) The cement mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. (Wooden planks / shuttering will not be allowed) Spec.No.:Bd.F.2 Page No. 298 /IS 456 (1978)	7793.21	Cubic Metre	332302.47
20.45	9	Providing and laying Cast in situ/Ready Mix cement concrete M-25 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 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)	14473.21	Cubic Metre	295977.14
31.18	10	Providing and laying Cast in situ/Ready Mix cement concrete M-25 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, compactionand 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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	12937.68	Cubic Metre	403396.86



Quantity	I.No	Item of work	Rate	unit	Amount
1.61	11	Providing and laying Cast in situ/Ready Mix cement concrete in M-20 of trap / granite/gneiss/ quartzite metal for R.C.C. fins of required thickness in positionas shown on the drawings or as directed by Engineer -in-charge including steel centering, plywood / steel form work, steel props, laying/ pumping, compaction ,finishing uneven and honey combed surface with C.M.1:3 of sufficient minimum thickness to give a smooth and even surface or roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement, including cover block) Newly laid concrete shall be covered by gunny bag, plastic, tarp aulin etc. with fully automatic microprocess or based PLC with SCADA enable dreversible Drum Type mixer/ concrete Batchmix plant (Panmixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	18084.07	Cubic Metre	29115.35
2.80	12	Providing and casting in situ cement concrete of M-25 grade of trap granite / quartzite / gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings or as directed including fixing plastic cover block of requird size at 27 Nos in per 10 Sqm to reinforcement to give a clear cover of 15mm in RCC slabs, fixing fan hook box of 100mm diameter PVC or MS material with required depth with holes or notches as required, bottom with 12mm diameter M.S. bar bend to shape with hooked ends for fan hook and painting to exposed surface, centering, formwork of steel, compaction, covering newly laid concrete by gunny bag, plastic or tarpaulin, finishing the formed surface 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. The cement mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Wooden planks / shuttering will not be allowed). Bd.F.8 Page No. 302 / IS 456:2000	14622.21	Cubic Metre	40942.19
8.67	13	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, chajjas, 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.	89703.00	Metric Tonne	777725.01
60.56	14	Providing dry rubble stone pitching 23cm (about 9) thick including all material, quarry spalls, labour etc.complete.	915.27	Square Metre	55428.75



Quantity	I.No	Item of work	Rate	unit	Amount
10.32	15	Providing Brick masonry in cement mortal 1.6 using second Class Burnt Bricks in foundation and plinth of inner walls/ in plinth of external walls including bailing out water manually, striking joints on unexposed faces ,watering and scaffolding complete Bd. G. 1, Page No.313,	7836.71	Cubic Metre	80874.85
111.88	16	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	8075.71	Cubic Metre	903510.43
1388.97	17	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 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 cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen days scaffolding etc.complete.	647.89	Square Metre	899899.77
37.84	18	Providing and fixing steel ventilat or fully glazed partly fixed as per detailed drawing with hot dip zinc coating including fabricating glazing with plain/ obscured glass pans 5mm thick and approved type quality and iron oxidized fixtures and fastening with guards quare bars 12mm 10cmc /cand oil painting 2coats etc. complete.	4827.00	Square Metre	182653.68
1388.97	19	Providing and applying white-wash in one coat on old/ new plastered or masonry surfaces and asbestos cement sheets including scaffolding and preparing the surface by brushing and brooming down etc. complete.	8.00	Square Metre	11111.76
1388.97	20	Providing and applying plastic emulsion paint of approved quality, colour and shade to old and new surfaces in two coats including scaffolding. preparing the surface. (excluding the primer coat) etc. complete.	80.00	Square Metre	111117.60



Quantity	I.No	Item of work	Rate	unit	Amount
25.20	21	Providing and fixing rolling shutter fabricated from steel at hsofminimum thickness 0.9mm with lock plate of 3.15 mm 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 fastarr angements, 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 atopand safety device sincluding mechanical gear operation arrangement consisting of worm gear wheels and worms of high grade castir on or mild steel and one coat of redlead primer etc. complete.(I.S.62481979) (Without mechanical gear)	4829.00	Square Metre	121690.80
585.03	22	Providing and laying in situ cement concrete M20 with tremix treatment for 100 mm thickness for flooring with groove cutting of 4mm wide and 20mm deep with necessary refilling with bitumen etc. complete.	845.95	Square Metre	494906.13
17.20	23	Providing structural steel work in trusses, other 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.	119459.00	Metric Tonne	2054694.80
775.37	24	Providing and fixing colour coated Zinalume (R) AZ 150 (min150 gms /sq.mt. total on each side) profiled sheets for roofing. The feed materialis manufactured out of nominal 0.45mm Base Metal Thickness (BMT) (0.5mm TCT), Hi-strength steel with min. 550 MP a yield strength, metallic hot dip coated with Aluminium-Zinc alloy (55% aluminium 43.4% zinc 1.6% silicon) with COLOR BOND (R) steel quality super durable polyester paint coat (with in organic pigment). The paint shall have a total coating thickness of nominal 35um, comprising of nominal 25 um exterior coat on top surface and nominal 10um reverse coat on back surface. Profile sheet shall have nom. 950-1050 mm effective cover width and nominal 25-30 mm deep ribs with subtles quare flutingin the five panat nominal 180-250 mm center-to-center. The endrib shall be designed for anti-capillary groove. and return leg. The feed material should have coil manufacturers product details marked a regular interval. Including fasteners with min. fastened with min. 25um Zinc-Tinalloy coated, Hexhead, self-drilling screw etc. complete. (weight of profile 4.52Kilogram /Square Metre.)	1173.00	Square Metre	909509.01



Quantity	I.No	Item of work	Rate	unit	Amount
8.00	25	Turbo ventilator 24" MATERIAL RATES FOR SSR For Year 2021-22,Page no. 374, Building (Bd-R : Roofing and ceiling)	9702.00	No.	77616.00
27.60	26	Providing and fixing UPVC Roof made up of 3 layers roofing material of thickness 2mm having width of 1130mm and of required Length having Tensile strength not less than 330Kilo gram/ cm <sup>2</sup> , including fastening with self drilling screw having washers made of stainless steel etc. complete.	1594.00	Square Metre	43994.40
				Total Rs.	8904733.56
			<b>Part A)</b>	Say Rs.	8904734.00
214.99	27	Royalty Charges for sand	237.37	Cum	51032.18
409.47		Royalty Charges for Rubble and HM	216.18	Cum	88519.22
1.00	28	Material Testing Charges	15025.00		15025.00
				Total Rs.	154576.40
			<b>Part B)</b>	Say Rs.	154576.00

*G. Bhaskar*  
Chartered Engineer  
Gaurav Rajendra Bhaskar  
B.E.(Civil) A.M.I.E.  
Chartered Engineer  
AM3023322

*Sai*  
Consulting Engineer  
SAI CONSULTANT  
Consulting Civil Engineer  
Rahuri, Dist. Ahmednagar



Name of work :- Proposed Construction of 1080MT Warehouse Building Unit In G.no.107 , For Agriva India Hitech Farmers Producer Co.ltd, At-Dasegaon,Tal-Chalisingaon, Dist: Jalgaon (MH)

**MEASUREMENT SHEET**

I.No.

- 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 & 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 Mechanical Means

For RCC Coloumn Type C1	20	x	1.80	x	1.80	x	1.50	=	97.20	Cum	
For RCC Coloumn Type C2	6	x	1.60	x	1.60	x	1.20	=	18.43		
For RCC Coloumn Type C4	4	x	1.60	x	1.60	x	1.20	=	12.29		
For RCC Coloumn Type C5	8	x	1.50	x	1.50	x	1.20	=	21.60		
<b>Total Qty</b>									=	<b>149.52</b>	<b>Cum</b>

- 2 Excavation for foundation in Hard murum in cluding removing the excavated material upto adistance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary backfilling, ramming, watering including shoring and strutting etc. complete. (Lift from 1.5 to 3.0m.) By Mechanical Means

For RCC Coloumn Type C1	20	x	1.80	x	1.80	x	0.60	=	38.88	Cum	
For RCC Coloumn Type C2	6	x	1.60	x	1.60	x	0.60	=	9.22		
For RCC Coloumn Type C4	4	x	1.60	x	1.60	x	0.60	=	6.14		
For RCC Coloumn Type C5	8	x	1.50	x	1.50	x	0.60	=	10.80		
<b>Total Qty</b>									=	<b>65.04</b>	<b>Cum</b>

- 3 Providing dry trap/ granite/ quartzite/ gneiss rubble stone soiling 15 cm to 20 cm thick including hand packing and compacting complete. Spec.No. : Bd.A.12 Page No. 264 ;

For RCC Coloumn Type C1	20	x	1.80	x	1.80	x	0.23	=	14.90	Cum	
For RCC Coloumn Type C2	6	x	1.60	x	1.60	x	0.23	=	3.53		
For RCC Coloumn Type C4	4	x	1.60	x	1.60	x	0.23	=	2.36		
For RCC Coloumn Type C5	8	x	1.50	x	1.50	x	0.23	=	4.14		
Ware House Plinth	1	x	36.15	x	15.52	x	0.23	=	129.04		
<b>Total Qty</b>									=	<b>153.97</b>	<b>Cum</b>

- 4 Filling in plinth and floors with approved excavated material in 15cm. to 20cm. layersincluding watering and compacting etc. complete.

Qty As per Exavated Quatity								=	214.56	cum	
Item no.1 & 2											
<b>Total Qty</b>									=	<b>214.56</b>	<b>cum</b>

- 5 Filling in plinth and floors with contractors material/ brought from outside and approved by Engineer in charge in layers of 15 cm to 20 cm including watering and compaction etc.complete.

Ware House Plinth	1	x	34.95	x	14.32	x	0.45	=	225.22	cum	
Deduction Internal side WH.	2	x	36.15	x	0.60	x	0.50	=	21.69		
Periphery Rubble fillig	2	x	14.32	x	0.60	x	0.50	=	8.59		
										<b>30.28</b>	
<b>Total Qty</b>									=	<b>194.94</b>	<b>cum</b>



- 6 Providing and filling in the foundation with sand of approved quality including watering, compacting etc. complete. (To be executed with prior approval of Superintending Engineer)

Deduction Internal side WH. Periphery Rubble fillig	2	x	36.15	x	0.60	x	0.05	=	2.17	cum
	2	x	14.32	x	0.60	x	0.05	=	0.86	
Ware House Flooring Soling	1	x	36.15	x	15.52	x	0.05	=	28.05	
									<b>Total Qty</b>	<b>= 31.08 cum</b>

- 7 Providing and laying Cast in situ/ Ready Mix cement concrete in 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 microprocess or base dPLCwith SCADA enable dreversible Drum Type mixer/ concrete Batch mix plant (Panmixer) etc.complete. With fine aggregate (Crushed sand VSI Grade)

For RCC Coloumn Type C1	20	x	1.80	x	1.80	x	0.10	=	6.48	cum
For RCC Coloumn Type C2	6	x	1.60	x	1.60	x	0.08	=	1.23	
For RCC Coloumn Type C4	4	x	1.60	x	1.60	x	0.08	=	0.82	
For RCC Coloumn Type C5	8	x	1.50	x	1.50	x	0.08	=	1.44	
Ware House Plinth	1	x	36.61	x	15.98	x	0.10	=	58.50	cum
									<b>Total Qty</b>	<b>= 68.47 cum</b>

- 8 Providing and laying in situ cement concrete of M-25 grade of trap / granite/quartzite/gneiss metal for R.C.C. work like raft, grillages, strips, foundations and footings of R.C.C.columns and steel stanchions including bailing-out water manually, including centering formwork of plywood / steel, compaction, covering newly laid concrete by gunny bag, plastic or tarpaulin, finishing the formed surface 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) The cement mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. (Wooden planks / shuttering will not be allowed) Spec.No.:Bd.F.2 Page No. 298 /IS 456 (1978)

1st Step of Footing

For RCC Coloumn Type C1	20	x	1.50	x	1.50	x	0.45	=	20.25	cum
For RCC Coloumn Type C2	6	x	1.30	x	1.30	x	0.45	=	4.56	
For RCC Coloumn Type C4	4	x	1.30	x	1.30	x	0.45	=	3.04	
For RCC Coloumn Type C5	8	x	1.20	x	1.20	x	0.38	=	4.38	

2nd Step of Footing

For RCC Coloumn Type C1	20	x	1.20	x	1.20	x	0.23	=	6.62	
For RCC Coloumn Type C2	6	x	1.00	x	1.00	x	0.23	=	1.38	
For RCC Coloumn Type C4	4	x	1.00	x	1.00	x	0.23	=	0.92	
For RCC Coloumn Type C5	8	x	0.90	x	0.90	x	0.23	=	1.49	
									<b>Total Qty</b>	<b>= 42.64 cum</b>

- 9 Providing and laying Cast in situ/Ready Mix cement concrete M-25 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 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)

For RCC Coloumn Type C1	20	x	0.23	x	0.45	x	6.39	=	13.23	cum
For RCC Coloumn Type C2	6	x	0.23	x	0.45	x	6.09	=	3.78	



For RCC Coloumn Type C4	4	x	0.23	x	0.38	x	6.09	=	2.13
For RCC Coloumn Type C5	8	x	0.23	x	0.38	x	1.87	=	1.31
							<b>Total Qty</b>	=	<b>20.45 cum</b>

- 10 Providing and laying Cast in situ/Ready Mix cement concrete M-25 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. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)

Long Wall Ground Beams	18	x	3.81	x	0.23	x	0.45	=	7.10
Short Wall Ground Beams	8	x	3.89	x	0.23	x	0.45	=	3.22
Varandah Plinth Beams Long	4	x	3.51	x	0.23	x	0.45	=	1.45
Varandah Plinth Beams Short	8	x	1.60	x	0.23	x	0.30	=	0.88
Long & Short Wall above V2	44	x	0.95	x	0.23	x	0.30	=	2.88
Long Wall Lintel Beams	14	x	3.81	x	0.23	x	0.38	=	4.66
Long Wall Beams Above RS	4	x	3.35	x	0.23	x	0.38	=	1.17
Long Wall Floor Beams	18	x	3.81	x	0.23	x	0.45	=	7.10
Short Wall Floor Beams	8	x	3.89	x	0.23	x	0.38	=	2.72
							<b>Total Qty</b>	=	<b>31.18 cum</b>

- 11 Providing and laying Cast in situ/Ready Mix cement concrete in M-20 of trap / granite/gneiss/ quartzite metal for R.C.C. fins of required thickness in position as shown on the drawings or as directed by Engineer -in-charge including steel centering, plywood / steel form work, steel props, laying/ pumping, compaction ,finishing uneven and honey combed surface with C.M.1:3 of sufficient minimum thickness to give a smooth and even surface or roughening the surface if special finish is to be provided and curing etc. complete. (Excluding reinforcement, including cover block) Newly laid concrete shall be covered by gunny bag, plastic, tarp aulin etc. with fully automatic microprocess or based PLC with SCADA enable dreversible Drum Type mixer/ concrete Batchmix plant (Panmixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)

Long Wall Ventilators V2 Top	22	x	1.56	x	0.45	x	0.075	=	1.16
Long Wall Ventilators V2 Sides	44	x	0.45	x	0.30	x	0.075	=	0.45
							<b>Total Qty</b>	=	<b>1.61 cum</b>

- 12 Providing and casting in situ cement concrete of M-25 grade of trap granite / quartzite / gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings or as directed including fixing plastic cover block of required size at 27 Nos in per 10 Sqm to reinforcement to give a clear cover of 15mm in RCC slabs, fixing fan hook box of 100mm diameter PVC or MS material with required depth with holes or notches as required, bottom with 12mm diameter M.S. bar bend to shape with hooked ends for fan hook and painting to exposed surface, centering, formwork of steel, compaction, covering newly laid concrete by gunny bag, plastic or tarpaulin, finishing the formed surface 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. The cement mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Wooden planks / shuttering will not be allowed).  
Bd.F.8 Page No. 302 / IS 456:2000

Varandah Plinth Slab	4	x	3.81	x	1.60	x	0.115	=	2.80
							<b>Total Qty</b>	=	<b>2.80 cum</b>

- 13 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, chajjas, 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.

For RCC Footing	42.64	@	80.00	Kg	=	3411.20	Kg
For RCC Coloumn	20.45	@	90.00	Kg	=	1840.50	Kg
For RCC Beam	31.18	@	95.00	Kg	=	2962.10	Kg
For RCC Fins	1.61	@	90.00	Kg	=	144.90	Kg



For RCC Slab	2.80	@	110.00	kg	=	308.00	kg
				Total Qty	=	8666.70	Kg
				Say	=	8.67	MT

- 14 Providing dry rubble stone pitching 23cm (about 9) thick including all material, quarry spalls, labour etc.complete.

Long Wall Internal Side Over size Metal in 2 Layers	2	x	36.15		x	0.60	=	43.38	Sqm
Short Wall Internal Side Over size Metal in 2 Layers	2	x	14.32		x	0.60	=	17.18	
								<b>Total Qty</b>	<b>= 60.56 Sqm</b>

- 15 Providing Brick masonry in cement mortal 1.6 using second Class Burnt Bricks in foundation and plinth of inner walls/ in plinth of external walls including bailing out water manually, striking joints on unexposed faces ,watering and scaffolding complete Bd. G. 1, Page No.313,

Long Wall Ground Beams	18	x	3.81	x	0.23	x	0.45	=	7.10	cum
Short Wall Ground Beams	8	x	3.89	x	0.23	x	0.45	=	3.22	
									<b>Total</b>	<b>10.32</b>
									<b>Total Qty</b>	<b>= 10.32 cum</b>

- 16 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

Long Wall Superstructure	18	x	3.81	x	0.23	x	5.20	=	82.02	cum
Short Wall Superstructure	8	x	3.89	x	0.23	x	5.20	=	37.22	cum
Short Gable Wall	2	x	7.76	x	0.23	x	2.00	=	7.14	
									<b>Total</b>	<b>= 126.38</b>
Deduction For V2	44	x	0.60	x	0.60	x	0.23	=	3.64	
Deduction For V1	26	x	1.41	x	0.60	x	0.23	=	5.06	
Deduction For RS	4	x	2.10	x	3.00	x	0.23	=	5.80	
									<b>Total</b>	<b>= 14.50</b>
									<b>Total Qty</b>	<b>= 111.88 cum</b>

- 17 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 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 cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen days scaffolding etc.complete.

Long Wall	2	x	36.61		x	6.48	=	474.47	Sqm
Short Wall	2	x	15.98		x	6.48	=	207.10	
Long Wall	2	x	36.61		x	5.48	=	401.25	
Short Wall	2	x	15.98		x	5.48	=	175.14	
Short Span Gable Walls External	2	x	7.76		x	2.00	=	31.04	
Short Span Gable Walls Internal	2	x	7.76		x	2.00	=	31.04	
Long Wall Coloumn Offsets C1	20	x	0.44		x	6.48	=	57.02	
Long Wall Coloumn Offsets C2	6	x	0.44			6.48	=	17.11	
Long Wall Coloumn Offsets C4	4	x	0.38			6.48	=	9.85	
Long Wall Coloumn Offsets C5	8	x	1.36			1.20	=	13.06	



Verandah Slab	4	x	4.27	x	1.83	=	31.26	
Verandah Slab Sides	8	x	1.83	x	0.38	=	5.56	
Verandah Slab Front	4	x	4.27	x	0.38	=	6.49	
V2 Top	44	x	1.56	x	0.45	=	30.89	
V2 Sides	88	x	0.45	x	0.60	=	23.76	
							<u>1515.04</u>	
<b>Deduction</b>								
Deduction For V2 Both Side	88	x	0.60	x	0.60	=	31.68	
Deduction For V1 Both Side	52	x	1.41	x	0.60	=	43.99	
Deduction For RS Both Side	8	x	2.10	x	3.00	=	50.40	
							<u>126.07</u>	
							<u>1388.97</u>	<u>Sqm</u>

- 18 Providing and fixing steel ventilat or fully glazed partly fixed as per detailed drawing with hot dip zinc coating including fabricating glazing with plain/ obscured glass pans 5mm thick and approved type quality and iron oxidized fixtures and fastening with guards quare bars 12mm 10cmc /cand oil painting 2coats etc. complete.

V2	44	x	0.60	x	0.60	=	15.84	Sqm
V1	26	x	1.41	x	0.60	=	22.00	
							<u>37.84</u>	<u>Sqm</u>

- 19 Providing and applying white-wash in one coat on old/ new plastered or masonry surfaces and asbestos cement sheets including scaffolding and preparing the surface by brushing and brooming down etc. complete.

Qty.As per Item no.17						=	1388.97	Sqm
							<u>1388.97</u>	<u>Sqm</u>

- 20 Providing and applying plastic emulsion paint of approved quality, colour and shade to old and new surfaces in two coats including scaffolding, preparing the surface. (excluding the primer coat) etc. complete.

Qty.As per Item no.17						=	1388.97	Sqm
							<u>1388.97</u>	<u>Sqm</u>

- 21 Providing and fixing rolling shutter fabricated from steell at hsofminimum thickness 0.9mm with lock plate of 3.15 mm 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 fastarr angements, 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 attopand safety device sincluding mechanical gear operation arrangement consisting of worm gear wheels and worms of high grade castir on or mild steel and one coat of redlead primer etc. complete.(I.S.62481979) (Without mechanical gear)

RS 1	4	x	2.10	x	3.00	=	25.20	Sqm
							<u>25.20</u>	<u>0</u>

- 22 Providing and laying in situ cement concrete M20 with tremix treatment for 100 mm thickness for flooring with groove cutting of 4mm wide and 5mm deep with necessary refilling with bitumen etc. complete.

Warehouse Flooring		x	36.61	x	15.98	=	585.03	Sqm
							<u>585.03</u>	<u>Sqm</u>



- 23 Providing structural steel work in trusses, other 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.

Total No. of Truss With Purlin	8	x	1975.00	x	=	15800.00	MT
Varandah Canopy	4	x	350.00	x	x	=	1400.00
							17200.00
<b>Total Qty</b>					<b>=</b>	<b>17.20</b>	<b>MT</b>

- 24 Providing and fixing colour coated Zinalume (R) AZ 150 (min 150 gms /sq.mt. total on each side) profiled sheets for roofing. The feed material is manufactured out of nominal 0.45mm Base Metal Thickness (BMT) (0.5mm TCT), Hi-strength steel with min. 550 MP a yield strength, metallic hot dip coated with Aluminium- Zinc alloy (55% aluminium 43.4% zinc 1.6% silicon) with COLOR BOND (R) steel quality super durable polyester paint coat (with in organic pigment). The paint shall have a total coating thickness of nominal 35um, comprising of nominal 25 um exterior coat on top surface and nominal 10um reverse coat on back surface. Profile sheet shall have nom. 950-1050 mm effective cover width and nominal 25-30 mm deep ribs with subtle square fluting in the five panat nominal 180-250 mm center-to-center. The endrib shall be designed for anti-capillary groove. and return leg. The feed material should have coil manufacturers product details marked a regular interval. Including fasteners with min. fastened with min. 25um Zinc-Tin alloy coated, Hexhead, self-drilling screw etc. complete. (weight of profile 4.52 Kilogram /

Roof Slop	2	x	10.50	x	36.61	=	768.81	Sqm
Verandah	4	x	4.27	x	2.00	=	34.16	
							<b>Total</b>	<b>802.97</b>
Deduction For Turbo Ventilator & Sky light Upvc roof	8.00	x	3.00	x	1.150	=	27.60	
							<b>Total</b>	<b>27.60</b>
<b>Total Qty</b>						<b>=</b>	<b>775.37</b>	<b>Rmt</b>

- 25 Turbo ventilator 24" MATERIAL RATES FOR SSR For Year 2021-22, Page no. 374, Building (Bd-R : Roofing and ceiling)

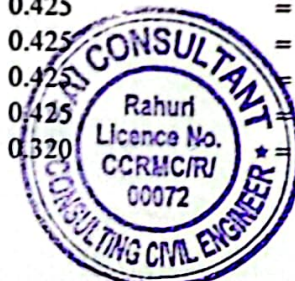
At Roof Level Ventilation						=	8.00	No.
<b>Total Qty</b>						<b>=</b>	<b>8.00</b>	<b>No.</b>

- 26 Providing and fixing UPVC Roof made up of 3 layers roofing material of thickness 2mm having width of 1130mm and of required Length having Tensile strength not less than 330 Kilo gram/ cm<sup>2</sup>, including fastening with self drilling screw having washers made of stainless steel etc. complete.

	8.00	x	3.00	x	1.15	=	27.60	Sqm
<b>Total Qty</b>						<b>=</b>	<b>27.60</b>	<b>Sqm</b>

- 27 Royalty Charges

	Material	Qty		Qty of Material	Cum				
6	Providing and filling in the foundati	1	x	31.08	x	1.000	=	31.08	Cum
7	Providing and laying Cast in situ/ R	1	x	68.47	x	0.470	=	32.18	
8	Providing and laying in situ cement	1	x	42.64	x	0.425	=	18.12	
9	Providing and laying Cast in situ/Rc	1	x	20.45	x	0.425	=	8.69	
10	Providing second class Burnt Brick	1	x	31.18	x	0.425	=	13.25	
11	Providing sand faced plaster externa	1	x	1.61	x	0.425	=	0.68	
12	Providing and casting in situ cemen	1	x	2.80	x	0.425	=	1.19	
15	Providing Brick masonry in cement	1	x	10.32	x	0.320	=	3.30	



16	Providing second class Burnt Brick	1	x	111.88	x	0.320	35.80
17	Providing sand faced plaster external	1	x	1388.97	x	0.033	45.84
22	Providing and laying in situ cement	1	x	585.03	x	0.043	24.86

						Sand	Total Qty	=	214.99	Cum
3	Providing dry trap/ granite/ quartzite	1	x	153.97	x	1.00		=	153.97	
5	Filling in plinth and floors with concrete	1	x	194.94	x	1.00		=	194.94	
14	Providing dry rubble stone pitching	1	x	60.56	x	1.00		=	60.56	
<b>Hm and Rubble</b>						<b>Total Qty</b>		=	<b>409.47</b>	<b>Cum</b>

  
 Chartered Engineer  
**Gaurav Rajendra Bhaskar**  
 B.E.(Civil) A.M.I.E.  
 Chartered Engineer  
 AM3023322

  
 Consulting Engineer  
**SAI CONSULTANT**  
 Consulting Civil Engineer  
 Rahuri, Dist. Ahmednagar



Name of work :- Proposed Construction of 1080MT Warehouse Building Unit In G.no.107 , For Agriva India Hitech Farmers Producer Co.ltd, At-Dasegaon,Tal-Chalisgaon, Dist: Jalgaon (MH)

RATE ANALYSIS AS PER PWD SSR 2022-23 For MAHARASTRA STATE

Sr. No	Description of Item	S.S.R. Page No. & It. No.	Basic Rate	Add extra lead charges for.....								Total Lead charges	Gross Rate		
				Rubble/Cr. Metal		Sand		Cr. Metal		Murum				Cement/Steel	
				502.27	393.44	229.55	/M <sup>3</sup>	410.55	/M <sup>3</sup>	252.22	/M <sup>3</sup>			5.22	/M.T.
1	Excavation for foundation in earth, soil of all types, sand, g	21.02	207.00									0.00	207.00		
2	Excavation for foundation in Hard murum in cluding remo	21.08	284.00									0.00	284.00		
3	Providing dry trap/ granite/ quartzite/ gneiss rubble stone s	21.38	1382.00	1.00	502.27							502.27	1884.27		
4	Filling in plinth and floors with approved excavated materi	21.36	120.00									0.00	120.00		
5	Filling in plinth and floors with contractors material/ broug	21.37	795.00						1.00	252.22		252.22	1047.22		
6	Providing and filling in the foundation with sand of approv	21.39	2160.00			1.00	229.55					229.55	2389.55		
7	Providing and laying Cast in situ/ Ready Mix cement conce	24.01	5830.00			0.47	107.89	0.940	385.92		4.40	22.97	516.78	6346.78	
8	Providing and laying in situ cement concrete of M-25 grad	25.13	7287.00			0.425	97.56	0.90	369.50		7.50	39.15	506.21	7793.21	
9	Providing and laying Cast in situ/Ready Mix cement conce	25.33	13967.00			0.425	97.56	0.90	369.50		7.50	39.15	506.21	14473.21	
10	Providing and laying Cast in situ/Ready Mix cement conce	25.52	12452.00			0.425	97.56	0.85	348.97		7.00	36.54	483.07	12937.68	
11	Providing and laying Cast in situ/Ready Mix cement conce	26.31	17601.00			0.425	97.56	0.85	348.97		7.00	36.54	483.07	18084.07	
12	Providing and casting in situ cement concrete of M-25 grad	25.72	14116.00			0.425	97.56	0.90	369.50		7.50	39.15	506.21	14622.21	
13	Providing and fixing in position TMT - FE - 500 bar reinfo	26.33	89703.00									0.00	89703.00		
14	Providing dry rubble stone pitching 23cm (about 9) thick in	2.34	413.00	1.00	502.27							502.27	915.27		
15	Providing Brick masonry in cement mortal 1.6 using secon	27.01	7755.00			0.32	73.46				1.58	8.25	81.71	7836.71	
16	Providing second class Burnt Brick masonry with conventi	27.05	7994.00			0.32	73.46				1.58	8.25	81.71	8075.71	
17	Providing sand faced plaster externally in cement mortar us	32.11	639.00			0.033	7.58				0.25	1.31	8.89	647.89	
18	Providing and fixing steel ventilat or fully glazed partly fix	39.30	4827.00									0.00	4827.00		
19	Providing and applying white-wash in one coat on old/ new	36.02	8.00									0.00	8.00		
20	Providing and applying plastic emulsion paint of approved	36.12	80.00									0.00	80.00		
21	Providing and fixing rolling shutter fabricated from steell a	39.24	4829.00									0.00	4829.00		
22	Providing and laying in situ cement concrete M20 with tre	33.30	796.00			0.043	9.76	0.089	36.54		0.70	3.65	49.95	845.95	
23	Providing structural steel work in trusses, other similar tru	23.04	119459.00									0.00	119459.00		
24	Providing and fixing colour coated Zincolume (R) AZ 150	38.34	1173.00									0.00	1173.00		
25	Turbo ventilator 24" MATERIAL RATES FOR SSR For Y	SSR 22-23,Page no. 374 I.no 42	9702.00									0.00	9702.00		
26	Providing and fixing UPVC Roof made up of 3 layers roof	38.37	1594.00									0.00	1594.00		
27	Royalty Charges for Rubble and HM		216.18										216.18		

*Rajashree*  
Chartered Engineer  
Gaurav Rajendra Bhaskar  
B.E.(Civil) A.M.I.E.  
Chartered Engineer  
AM3023322

*Bodhr*  
Consulting Engineer  
SAI CONSULTANT  
Consulting Civil Engineer  
Rahuri, Dist. Ahmednagar



Name of work :- Proposed Construction of 1080MT Warehouse Building Unit In G.no.107 , For Agriva India Hitech Farmers Producer Co.ltd, At-Dasegaon,Tal-Chalisgaon, Dist: Jalgaon (MH)

Appendix - I  
**Lead Chart**

Sr. No.	Description	Rubble	Murum	Crush metal	Crush metal 40 mm above	Crush Sand	Cement	Steel	Asphalt
1	2	3	4	4	4	5	6	7	8
	Source	Restricted	Local	Restricted	Restricted	Restricted	Local	Local	
1	Average lead as per Quarry chart in km	15.00	5.00	15.00	15.00	3.00	1.00	1.00	
2	Lead charges	502.27	252.22	410.55	393.44	229.55	104.39	104.39	
4	Extra lead charges	502.27	252.22	410.55	393.44	229.55	104.39	104.39	
5	Extra lead charges per bag of cement						5.22		

*Rajendra*  
Chartered Engineer  
**Gaurav Rajendra Bhaskar**  
B.E.(Civil) A.M.I.E.  
Chartered Engineer  
AM3023322

*Sai*  
Consulting Engineer  
**SAI CONSULTANT**  
Consulting Civil Engineer  
Rahuri, Dist. Ahmednagar



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TESTING CHART

Item	Qty	Soil/HM	Bitumen	Metal	Agg.	Tests	Frequency	Total Test	At Site	At Lab	Rate	Amt
Concrete												
		Cement	Sand		Agg							
M 10	38.20	8.40	17.95		35.91	Comp. Strength- Cube		9	5	4	690.00	2760.00
M 20	58.50	20.48	2.49		52.65							0.00
M 25	78.05	29.27	3.32		70.25							
Total	174.75	58.15	23.76		158.81	Crush Metal-Basic Test	1/1000 Cum	3	2	1	2600.00	2600.00
		MT	Cum		Cum	Gradation	1/100 Cum	3	2	2	745.00	1490.00
						Comboned Flakiness & Elongation of single metal	1/400 Cum	2	1	1	850.00	850.00
						Cement-Fineness, consistency, Setting time, Compressive strength, Specific Gravity	1/50 MT	1	1	1	3770.00	3770.00
						Sand-Fineness Modulus, Silt Content	1/ Source	1	1	1	1380.00	1380.00
						Water Absorption (Set of 5 Bricks), Compressive Strength( Set of 5 Bricks), Efflorescence (Set of 5 Bricks).	Set of 5 Bricks	1	1	1	2175.00	2175.00
											Total	15025.00

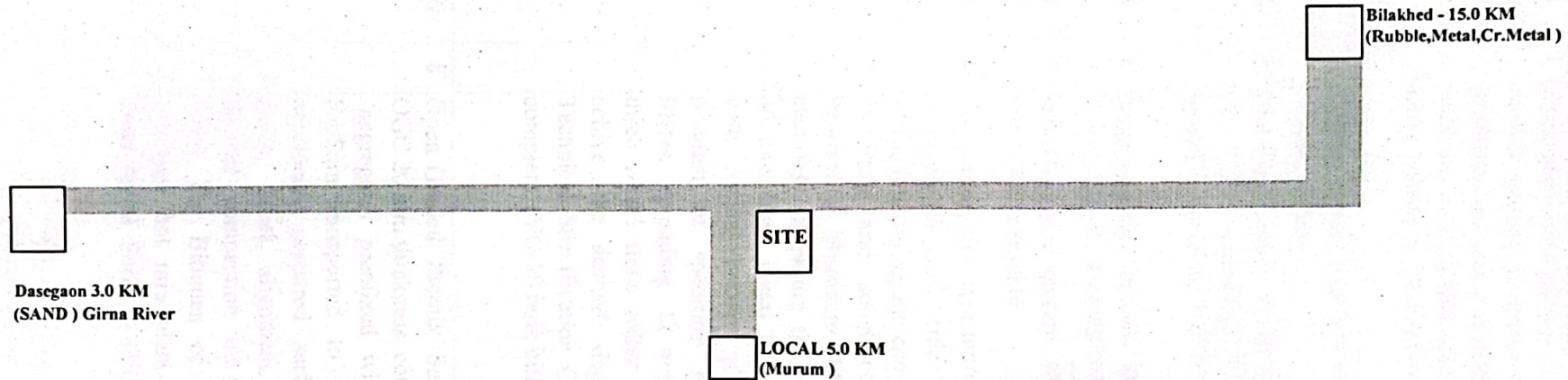
*Rajendra*  
Chartered Engineer  
Gaurav Rajendra Bhaskar  
B.E.(Civil) A.M.I.E.  
Chartered Engineer  
AM3023322

*Rahuri*  
Consulting Engineer  
SAI CONSULTANT  
Consulting Civil Engineer  
Rahuri, Dist. Ahmednagar



Name of work :- Proposed Construction of 1080MT Warehouse Building Unit In G.no.107 , For Agriva India Hitech Farmers Producer Co.ltd, At-Dasegaon,Tal-Chalisingaon, Dist: Jalgaon (MH)

Quarry Chart



LEAD STATEMENT

Material	Quarry	Lead in Km.
Rubble	Bilakhed	15.00
Metal	Bilakhed	15.00
Crushed Metal	Bilakhed	15.00
Murum	Local	5.00
Sand	Dasegaon	3.00

CERTIFICATE.

- 1 Certified that the quarries shown on the quarry chart for metal & murum are inspected by me & they are nearest & economical to the work & contain sufficient & good quality material required for the work.
- 2 Certified that lead for quarries shown and accounted in the estimate is as per nearest route.
- 3 Certified that leads considered are found to be correct.

*Gaurav Rajendra Bhaskar*

Chartered Engineer

**Gaurav Rajendra Bhaskar**  
B.E.(Civil) A.M.I.E.  
Chartered Engineer  
AM3023322

*Sai*

Consulting Engineer  
**SAI CONSULTANT**  
Consulting Civil Engineer  
Rahuri, Dist. Ahmednagar



Name of work :- Proposed Construction of 1080MT Warehouse Building Unit In G.no.107 , For Agriva India Hitech Farmers Producer Co.ltd, At-Dasegaon,Tal-Chalisgaon, Dist: Jalgaon (MH)

S.W. II - Internal Bituminous roads

**ABSTRACT**

Quantity	I.No	Item of work	Rate	unit	Amount
263.25	1	Excavation for road way in earth,soil of all sorts,sand,gravel or soft murum including dressing section to there quired grade,camber and side slope sand conveying the excavated materials with all lifts upto a lead of 50m. and spreading for embankment or stacking as directed.	119.00	Cum	31326.75
0.00	2	Picking the road surface including sectioning etc. complete (WBM surface.)	31.00	Cum	0.00
201.83	3	Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with cum Crushed sand/grit, ramming, watering etc. complete.	2067.37	Cum	417246.95
407.03	4	Supplying hard murum/ kankar at the road site, including conveying and stacking complete.	1152.69	Cum	469179.41
407.03	5	Spreading hard murum/ soft murrum/ gravel or kankar for side width complete	79.00	Cum	32155.37
877.50	6	Compacting the hard murum side width s including laying in layers on each side with vibratory roller including artificial watering etc. complete.	21.00	Sqm	18427.50
877.50	7	Providing and constructing 75 mm. thick Modified Penetration Macadam (MPM) road surface including all materials, preparing the existing road surface, spreading 40 mm. stone metal layers 100% crusher broken metal with conical crusher plant heating and spraying the bitumen of specified grade @ 2 Kilogram/Square Metre, spreading 12 mm.size chips compacting with three wheel static roller having weight 8 to 10 MT. to achive the desired degree of compaction as per Technical Specification Clause 506 etc. complete. (VG-30 bulk bitumen )	310.68	Sqm	272621.70
877.50	8	Open Graded Premix Surfacing- Providing and Laying OGC 20 mm thickness composed of 13.2 mm to 5.6 mm aggregates premixed with bituminous binder @ 1.56 Kg/Sqm transported to site with VTS, laid over a previously prepared surface, finished to the required grade, level, alignment, and rolling to achieve the desired compaction but excluding prime / tack and Seal coat. For Bitumen of specified grade--USING drum mix type hot mix plant, Paver and Vibratory roller ( Over MPM Surface) (VG-30 bulk Grade 60/70)	193.46	Sqm	169761.15



Quantity	I.No	Item of work	Rate	unit	Amount
1014.80	9	9 MM SEAL COAT: Providing and laying of Type A 9 mm premix seal coat with HMP of Sqm aproprate capacity crushed stone chiping 6.7 mm size and penetration bitumen of specified grade @ 1.2 kg/Sq.m, preparing existing road surface by mechanical means, spreading chips and rolling, by static roller having weight 8 to 10 MT etc. complete. (VG-	83.38	Sqm	84614.02
				Total	1495332.85
			Part A)	Say Rs.	1495333.00
608.86	10	Royalty Charges	216.00	Cum	131513.76
1.00		Material Testing Charges	8180.00		8180.00
				Total Rs.	139693.76
			Part B)	Say Rs.	139694.00

*Bhaskar*  
Chartered Engineer  
**Gaurav Rajendra Bhaskar**  
B.E.(Civil) A.M.I.E.  
Chartered Engineer  
AM3023322

*Sai*  
Consulting Engineer  
**SAI CONSULTANT**  
Consulting Civil Engineer  
Rahuri, Dist. Ahmednagar



Name of work :- Proposed Construction of 1080MT Warehouse Building Unit In G.no.107 , For Agriva India Hitech Farmers Producer Co.ltd, At-Dasegaon,Tal-Chaligaon, Dist: Jalgaon (MH)

S.W. II - Internal Bituminous roads

I.No.

MEASUREMENT SHEET

- 1 Excavation for road way in earth,soil of all sorts,sand,gravel or soft murum including dressing section to there quired grade,camber and side slope sand conveying the excavated materials with all lifts upto a lead of 50m. and spreading for embankment or stacking as directed.

Road formation

New Road

Long Side	1	x	50.00	x	6.50	x	0.30	=	97.50	Cum
Entrance Road	1	x	85.00	x	6.50	x	0.30	=	165.75	Cum
								<b>Total Qty</b>	<b>= 263.25</b>	<b>Cum</b>

- 2 Picking the road surface including sectioning etc. complete (WBM surface.)

Existing Road

Long Side	0	x	0.00	x	0.00	x	0.00	=	0.00	Sqm
Short Wall	0	x	0.00	x	0.00	x	0.00	=	0.00	Sqm
								<b>Total Qty</b>	<b>= 0.00</b>	<b>Sqm</b>

- 3 Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with cum Crushed sand/grit, ramming, watering etc. complete.

Long Side	1	x	50.00	x	6.50	x	0.23	=	74.75	Cum
Entrance Road	1	x	85.00	x	6.50	x	0.23	=	127.08	Cum
								<b>Total Qty</b>	<b>= 201.83</b>	<b>Cum</b>

- 4 Supplying hard murum/ kankar at the road site, including conveying and stacking complete.

Long Side	1	x	50.00	x	6.50	x	0.45	=	146.25	Cum
Entrance Road	1	x	85.00	x	6.50	x	0.45	=	248.63	Cum

For side Shoulder

Long Side	1.00	x	50.00	x	0.45	x	0.20	=	4.50	Cum
Entrance Road	1.00	x	85.00	x	0.45	x	0.20	=	7.65	Cum
								<b>Total Qty</b>	<b>= 407.03</b>	<b>Cum</b>

- 5 Spreading hard murum/ soft murrum/ gravel or kankar for side width complete  
Same Qty As Per It No 4

**Total Qty = 407.03 Cum**

- 6 Compacting the hard murum side width s including laying in layers on each side with vibratory roller including artificial watering etc. complete.

For side Shoulder

Long Side	1.00	x	50.00	x	6.50			=	325.00	Sqm
Entrance Road	1.00	x	85.00	x	6.50			=	552.50	Sqm
								<b>Total Qty</b>	<b>= 877.50</b>	<b>Sqm</b>

- 7 Providing and constructing 75 mm. thick Modified Penetration Macadam (MPM) road surface including all materials, preparing the existing road surface, spreading 40 mm. stone metal layers 100% crusher broken metal with conical crusher plant heating and spraying the bitumen of specified grade @ 2 Kilogram/Square Metre, spreading 12 mm.size chips compacting with three wheel static roller having weight 8 to 10 MT. to achive the desired degree of compaction as per Technical Specification Clause 506 etc. complete. (VG-30 bulk bitumen )

Long Side	1.00	x	50.00	x	6.50			=	325.00	Sqm
Entrance Road	1.00	x	85.00	x	6.50			=	552.50	Sqm
								<b>Total Qty</b>	<b>= 877.50</b>	<b>Sqm</b>



- 8 Open Graded Premix Surfacing- Providing and Laying OGC 20 mm thickness composed of 13.2 mm to 5.6 mm aggregates premixed with bituminous binder @ 1.56 Kg/Sqm transported to site with VTS, laid over a previously prepared surface, finished to the required grade, level, alignment, and rolling to achieve the desired compaction but excluding prime / tack and Seal coat. For Bitumen of specified grade--USING drum mix type hot mix plant, Paver and Vibratory roller ( Over MPM Surface) (VG-30 bulk Grade 60/70)

For Existing & New Road	1.00 x	877.50	=	877.50	Sqm
			<b>Total Qty</b>	<b>=</b>	<b>877.50</b> Sqm

- 9 9 MM SEAL COAT: Providing and laying of Type A 9 mm premix seal coat with HMP of Sqm appropriate capacity crushed stone chipping 6.7 mm size and penetration bitumen of specified grade @ 1.2 kg/Sq.m, preparing existing road surface by mechanical means, spreading chips and rolling, by static roller having weight 8 to 10 MT etc. complete. (VG-

	1.00	0	1014.80	=	1014.80	Sqm
				<b>Total Qty</b>	<b>=</b>	<b>1014.80</b> Sqm

10 Royalty Charges

	Material	Qty	Consumption		Qty of Material	
3	Providing soling using 80 mm size trap metz	201.83	x 1.00	=	201.83	Cum
4	Supplying hard murum/ kankar at the road site, ii	407.03	x 1.00	=	407.03	
		<b>Hm and Rubble Total Qty</b>		=	<b>608.86</b>	<b>Cum</b>
				=	<b>608.86</b>	<b>Cum</b>

  
Chartered Engineer

**Gaurav Rajendra Bhaskar**  
B.E.(Civil) A.M.I.E.  
Chartered Engineer  
AM3023322

  
Consulting Engineer

**SAI CONSULTANT**  
Consulting Civil Engineer  
Rahuri, Dist. Ahmednagar



Name of work :- Proposed Construction of 1080MT Warehouse Building Unit In G.no.107 , For Agriva India Hitech Farmers Producer Co.ltd, At-Dasegaon,Tal-Chalisingaon, Dist: Jalgaon (MH)

**S.W. II - Internal Bituminous roads**

**Rate Analysis for BT Items**

**Item No.13:-** Providing and constructing 75 mm. thick Modified Penetration Macadam (MPM) road surface including all materials, preparing the existing road surface, spreading 40 mm. stone metal layers 100% crusher broken metal with conical crusher plant heating and spraying the bitumen of specified grade @ 2 Kilogram/Square Metre, spreading 12 mm.size chips compacting with three wheel static roller having weight 8 to 10 MT. to achive the desired degree of compaction as per Technical Specification Clause 506 etc.

A) Basic Rate SSR 20222-23 Road Sub Base and Base Course I.No.3.35a					Rs	229.00	Per Sqm
<u>Add for asphalt</u>	46040	-	32877 =	13163	x	0.002	Rs 26.33 Per Sqm
<u>Diff.016/09/2022</u>							
B) Add.extra lead charges for							
A) 40 mm	0.09	70%		x	502.27	Rs.	31.64 Per Sqm
B)40 mm Crush metal	0.09	30%		x	393.44	Rs.	10.62 Per Sqm
C) Crush metal	0.018			x	410.55	Rs	7.39 Per Sqm
D) Bulk asphalt	0.002			x	2850.00	Rs	5.70 Per Sqm
<b>Total Rate</b>					<b>Rs</b>	<b>310.68</b>	<b>Per Sqm</b>

**Item No.15:-** Open Graded Premix Surfacing- Providing and Laying OGC 20 mm thickness composed of 13.2 mm to 5.6 mm aggregates premixed with bituminous binder @ 1.56 Kg/Sqm transported to site with VTS, laid over a previously prepared surface, finished to the required grade, level, alignment, and rolling to achieve the desired compaction but excluding prime /tack and Seal coat. For Bitumen of specified grade--USING drum mix type hot mix plant, Paver and Vibratory roller ( Over MPM Surface) (VG-30 bulk Grade 60/70)

A) Basic Rate SSR 2022-23 Road Surfacing Course I.No.4.11					Rs	155.00	Per Sqm
<u>Add for asphalt</u>	46040	-	32877 =	13163	x	0.00171	Rs 22.51 Per Sqm
<u>Diff.016/09/2022</u>							
B) Add.extra lead charges for							
Crush metal	0.027			x	410.55	Rs	11.08 Per Sqm
Bulk asphalt. (1.46+0.25)	0.0017			x	2850.00	Rs	4.87 Per Sqm
1000					<b>Total Rate</b>	<b>Rs</b>	<b>193.46 Per Sqm</b>

**Item No.16:-** 9 MM SEAL COAT: Providing and laying of Type A 9 mm premix seal coat with HMP of Sqm aproprate capacity crushed stone chiping 6.7 mm size and penetration bitumen of specified grade @ 1.2 kg/Sq.m, preparing existing road surface by mechanical means, spreading chips and rolling, by static roller having weight 8 to 10 MT etc. complete. (VG-

A) Basic Rate SSR 2022-23 Road Surfacing Course I.No.4.13					Rs	64.00	Per Sqm
<u>Add for asphalt</u>	46040	-	32877 =	13163	x	0.00098	Rs 12.90 Per Sqm
<u>Diff.016/09/2022</u>							
B) Add.extra lead charges for							
Crush metal	0.009			x	410.55	Rs	3.69 Per Sqm
Bulk asphalt. (0.98)	0.001			x	2850.00	Rs	2.79 Per Sqm
1000					<b>Total Rate</b>	<b>Rs</b>	<b>83.38 Per Sqm</b>

*G. Rajendra Bhaskar*  
Chartered Engineer  
**Gaurav Rajendra Bhaskar**  
B.E.(Civil) A.M.I.E.  
Chartered Engineer  
AM3023322

*S. S. S. S.*  
Consulting Engineer  
**SAI CONSULTANT**  
Consulting Civil Engineer  
Rahuri, Dist. Ahmednagar



Name of work :- Proposed Construction of 1080MT Warehouse Building Unit In G.no.107 , For Agriva India Hitech Farmers Producer Co.ltd, At- Dasegaon, Tal-Chalisingaon, Dist: Jalgaon (MH)

S.W. II - Internal Bituminous roads

RATE ANALYSIS AS PER PWD SSR 2022-23

Sr. No.	Description of Item	D.S.R. Page No. & It. No.	Basic Rate	Add extra lead charges for.....										Total Lead charges	Gross Rate
				Rubble/Cr. Metal		Sand		Cr. Metal		Murum		Cement/Steel			
				502.27	410.55	229.55	/M <sup>3</sup>	410.55	/M <sup>3</sup>	252.22	/M <sup>3</sup>	5.22	/M.T.		
1	Excavation for road way in earth,soil of all	2.11	119.00											0.00	119.00
2	Picking the road surface including sectioning etc.	2.32	31.00											0.00	31.00
3	Providing soling using 80 mm size trap metal in 15 c	21.40	1454.00	1.21	496.77			0.27	110.85	0.08	20.18			627.80	2081.80
4	Supplying hard murum/ kankar at the road site, including d	2.29a	598.00			0.47	107.89	0.90	369.50			4.40	22.97	500.36	1098.36
5	Spreading hard murum/ soft murrum/ gravel or kankar for	2.30	79.00											0.00	79.00
6	Compacting the hard murum side width s including laying	2.31	21.00											0.00	21.00
7	Providing and constructing 75 mm. thick Modified Per	3.35a	310.68											0.00	310.68
8	Open Graded Premix Surfacing- Providing and Laying	4.11	193.46											0.00	193.46
9	9 MM SEAL COAT: Providing and laying of Type A 9	4.13	83.38											0.00	83.38
10	Royalty Charges		216.00											0.00	216.00

*Gaurav Rajendra Bhaskar*  
Chartered Engineer  
**Gaurav Rajendra Bhaskar**  
B.E.(Civil) A.M.I.E.  
Chartered Engineer  
AM3023322

*Zadhu*  
Consulting Engineer  
**SAI CONSULTANT**  
Consulting Civil Engineer  
Rahuri, Dist. Ahmednagar



Name of work :- Proposed Construction of 1080MT Warehouse Building Unit In G.no.107 , For Agriva India Hitech Farmers Producer Co.ltd, At-Dasegaon, Tal-Chalisgaon, Dist: Jalgaon (MH)

S.W. II - Internal Bituminous roads

TESTING CHART

Item	Qty	Soil/HM	Bitumen	Metal	Agg.	Tests	Frequency	Total Test	At Site	At Lab	Rate	Amt
75 mm MPM	1014.75		2.08	42.62	33.49	Grardation	1/100 Cum	1	1	1	690.00	690.00
Total	1014.75		2.08	42.62	33.49	Combined Flakiness & Elongation of single	1/350 Cum	0	0	1	850.00	850.00
Carpet Sealcoat	1014.80		2.73		36.53	Binder Content	2/day	2	1	1	1595.00	1595.00
Total			4.81	42.62	70.02	Penetration, Softening Point, Flash & Fire Point, Specific Gravity	2/day	2	1	1	3135.00	3135.00
						Viscosity	2/day	2	1	1	1910.00	1910.00
											Total	8180.00

*Gaurav*  
Chartered Engineer  
**Gaurav Rajendra Bhaskar**  
B.E.(Civil) A.M.I.E.  
Chartered Engineer  
AM3023322

*Sadhe*  
Consulting Engineer  
**SAI CONSULTANT**  
Consulting Civil Engineer  
Rahuri, Dist. Ahmednagar



Name of work :- Proposed Construction of 1080MT Warehouse Building Unit In G.no.107 , For Agriva India Hitech Farmers Producer Co.ltd, At-Dasegaon,Tal-Chalisingaon, Dist: Jalgaon (MH)

Sub Work No:-III Electrification

**ABSTRACT**

Quantity	I.No	Item of work	Rate	unit	Amount
20.00	1	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 3 core 6 sq. mm. aluminium conductor complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/AL 7-1-9	137.00	Running Meter	2740.00
10.00	2	Making trench in soft soil having 0.75 m depth and minimum 0.3 m width for laying provided cables up to voltage level of 1.1kV complete As per specification No. CW-EXN-CTR 16-1-1	161.00	Running Meter	1610.00
10.00	3	Making trench in Hard murum/Tar road having 0.75 m depth and minimum 0.3mtr width as per IS for laying provided cables up to voltage level 1.1Kv cable complete as per specification No. CW-EXN-CTR 7-2-5	199.00	Running Meter	1990.00
87.00	4	Supplying and erecting mains with 3x2.5 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places as per specification No: WG-MA/BW 5-12-1	93.00	Running Meter	8091.00
4.00	5	Supplying & erecting CRCA sheet metal enclosures of 1.2mm thickness with 10A, 2 pin plug & earth socket and 10A, 3 pin plug top with 10A single pole MCB having rated short - circuit breaking capacity (Icn) 10kA complete erected on angle iron / GI frame. 5-4-10	800.00	Number	3200.00
4.00	6	Point wiring for light/fan/bell in 20 mm FRLS grade HMS PVC conduit with 1.5 sq.mm (2+1E) FRLSH grade copper wire with flush type switch and required accessories as per specification No: WG-PW/SW 1-7-3	1929.00	Number	7716.00
4.00	7	Supplying & erecting 10-12W, 230V integral type LED Lamp suitable for B-22 /E-27 base. 2-8-11	230.00	Number	920.00
4.00	8	Supplying and erecting integrated LED street light fitting 18 to 22W IP65 & IK08 class having single piece pressure die-cast aluminium housing,having system lumens output of Min. 1800 Lumens, min. efficacy of 100 lumen/W, CRI>70, CCT upto 6500K, THD<10%, p.f. >0.95, operating range of 140- 270V, inbuilt surge protection of 10 kV, Life class of 50,000 Hrs. at L70B50, including driver complete with 3 Years warranty as per specification No FGODF/ FLS2. 2-4-1	1929.00	Number	7716.00



Quantity	I.No	Item of work	Rate	unit	Amount
4.00	9	Supplying and erecting Street light bracket made from 40 mm. dia 'B' class G.I. Pipe, 0.6m. in length along with pole cap of 300 mm length and 80 mm dia duly welded with provided leads as per specification no. FG-BKT/BPC 2-7-2	736.00	Number	2944.00
1.00	10	Providng 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 9-1-1	4714.00	Number	4714.00
1.00	11	Providing pipe type earthing with 40mm. dia. G.I. pipe or 20 mm dia. G.I. Rod complete with all materials testing and recording the results as per specification no. EA-EP 9-1-4	1500.00	Number	1500.00
1.00	12	Supplying, erecting & marking DPMCB 6A to 32A, C-series with rated short -circuit breaking capacity (Icn) 10kA in provided distribution board as per specification no. SW-SWR/MCB 5-3-6	535.00	Number	535.00
1.00	13	Supplying, erecting & marking SPMCB 6A to 32A, B-series with rated short - circuit breaking capacity (Icn) 10kA in provided distribution board as per specification no. SW-SWR/MCB 5-3-3	173.00	Number	173.00
1.00	14	Supplying and erecting GI sheet 1.6 mm (16 SWG) having zinc coating of 350 microns with galvanization process compliance to IS 2629:1985 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. 6-1-6	2560.00	Square Metre	2560.00
1.00	15	Supplying and erecting marine (Waterproof) 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 with compliance to IS 720:2010 6-1-14	1471.00	Square Metre	1471.00
2.00	16	Supplying & erecting triple pole and neutral distribution board (TPNDB), 3 pole/ 4 pole MCCB as incomer & outgoing SP MCB (12 poles) or TP MCB of 4 ways (12 poles), with door, 1.2mm thickness, surface/flush mounted, on iron/GI frame (vertical busbar type) as per specification no.SW-SWR/MCBDB1 5-4-15	6568.00	Number	13136.00
10.00	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 7-6-1	217.00	Running Metre	2170.00



Quantity	I.No	Item of work	Rate	unit	Amount
10.00	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 7-6-2	337.00	Running Meter	3370.00
6.00	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 cable below ground/road surface, to required depth complete. 7-6-10	241.00	Running Meter	1446.00
2.00	20	Supplying & erecting 18guage M.S. Box powder coated (4"x4") 3 way for mains connection. MR	500.00	Number	1000.00
4.00	21	Supplying & erecting single compression 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 7-7-2	87.00	Number	348.00
1.00	22	Supplying and erecting Ceiling rose / Batten holder / Slanting holder / hanging cord switch / hanging bell push / pendant holder bakelite base 6A. erected on filled polypropylene board or polished double wooden block/ PVC junction box. 1-5-7	39.00	Number	39.00
2.00	23	Point wiring for independent plug in 20 mm metal conduit with 1.5 sq.mm (2+1E) FRLSH grade copper wire, flush type switch, earthing and required accessories as per specification No: WG-PW/SW 1-7-2	941.00	Number	1882.00
1.00	24	Wiring for plug on board with Switch socket surface/concealed type, copper wiring and earthing and with modular accessories as per specification No: WGPW/ CW 1-7-26	386.00	Number	386.00
2.00	25	Supplying and erecting mains with 2x2.5 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WG-MA/BW 1-3-2	62.00	Running Meter	124.00
2.00	26	Supplying and erecting mains with 2x4 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WG-MA/BW 1-3-3	89.00	Running Meter	178.00
1.00	27	Supplying and erecting modular type D.P. switch 32A with indicator, duly erected on provided plate and box with wiring connections complete. 1-6-8	210.00	Number	210.00



Quantity	I.No	Item of work	Rate	unit	Amount
4.00	28	Supplying, erecting and marking double pole isolator only switch version of miniature circuit breaker of 40A with required wiring connections and lugs etc.in provided distribution board. 5-3-14	310.00	Number	1240.00
1.00	29	Supplying & erecting 3W, 230V integral type LED Lamp suitable for B-22 / E- 27 base. 2-8-9	126.00	Number	126.00
4.00	30	Supplying and erecting IP65 and IK08 rated UV shielded polycarbonate waterproof and dustproof industrial grade LED fitting (4 feet) max. 36W with high transitivity diffuser with system lumens output of min. 4300 lumens , min. efficacy of 120 lumen/W, CRI>80, CCT upto 6500K, Beam Angle of 120 deg., Ripple<5%, THD<10%, p.f. >0.95, operating range of 120-270V, surge protection of 4 kV, Life class of 50,000 Hrs. at L70B50 , IP20 rated, including driver with auto cutoff & auto restart feature at 325V with end caps on PVC lock/wooden board with 3 years warranty. 2-2-1	3396.00	Number	13584.00
1.00	31	Supplying and erecting regular/ standard model ceiling fan of 900 /1050 mm. sweep complete erected in position as per specification no. FG-FN/CF 2-10-2	2092.00	Square Meter	2092.00
2.00	32	Supplying and erecting ding dong / electronic musical type call bell with heavy duty coil suitable to operate on 230V A.C. supply erected on olished double wooden block/sunmica block of suitable size. 2-3-13	140.00	Number	280.00
2.00	33	Supplying and erecting Street light bracket made from 25 mm. dia 'B' class G.I. Pipe, 0.6m. in length along with pole cap of 300 mm length and 80 mm dia duly welded with provided leads as per specification no. FG-BKT/BPC 2-7-1	655.00	Number	1310.00
1.00	34	Supplying & erecting CRCA sheet metal one way enclosures of 1.2mm thickness suitable for DP MCB /TP MCB/FP MCB/RCCB/RCBO complete erected on angle iron/GI frame. 5-4-13	400.00	Number	400.00
3.00	35	Supplying, erecting and marking four pole isolators only switch version of miniature circuit breakers of 40A in provided distribution board. 5-3-18	698.00	Number	2094.00
				Total Rs.	93295.00
			Part A)	Say Rs.	93295.00



*Rajendra Bhaskar*  
Chartered Engineer  
**Gaurav Rajendra Bhaskar**  
B.E.(Civil) A.M.I.E.  
Chartered Engineer  
AM3023322  
Page 4

*Badha*  
Consulting Engineer  
**SAI CONSULTANT**  
Consulting Civil Engineer  
Rahuri, Dist. Ahmednagar

Name of work :- Proposed Construction of 1080MT Warehouse Building Unit In G.no.107 , For Agriva India Hitech Farmers Producer Co.ltd, At-Dasegaon,Tal-Chalisgaon, Dist: Jalgaon (MH)

Sub Work No:-III Electrification

MEASUREMENT SHEET

Item. No.	Description of Items	NO.	LENTH	BREATH	DEPTH	TOTAL	UNIT					
1	Supplying, erecting & terminating FR XLPE insulated, galvanised steel formed wire armoured (strip) cable 1100 V, 3 core 6 sq. mm. aluminium conductor complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/AL 7-1-9						Running Meter					
	Ware House	1	x	1	x	20.00	x	1	=	20.00		
										<b>Total</b>	20.00	
										<b>Say</b>	20.00	
2	Making trench in soft soil having 0.75 m depth and minimum 0.3 m width for laying provided cables up to voltage level of 1.1kV complete As per specification No. CW-EXN-CTR 16-1-1										Running Meter	
	Ware House	1	x	1	x	10.00	x	1	x	1	=	10.00
										<b>Total</b>	10.00	
										<b>Say</b>	10.00	
3	Making trench in Hard murum/Tar road having 0.75 m depth and minimum 0.3mtr width as per IS for laying provided cables up to voltage level 1.1Kv cable complete as per specification No. CW-EXN-CTR 7-2-5										Number	
	Ware House	1	x	1	x	10.00	x	1	x	1	=	10.00
										<b>Total</b>	10.00	
										<b>Say</b>	10.00	
4	Supplying and erecting mains with 3x2.5 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places as per specification No: WG-MA/BW 5-12-1										Running Meter	
	Ware House	1	x	1	x	87.00	x	1	x	1	=	87.00
										<b>Total</b>	87.00	
										<b>Say</b>	87.00	
5	Supplying & erecting CRCA sheet metal enclosures of 1.2mm thickness with 10A, 2 pin plug & earth socket and 10A, 3 pin plug top with 10A single pole MCB having rated short - circuit breaking capacity (Icn) 10kA complete erected on angle iron / GI frame. 5-4-10										Number	
	Ware House	1	x	4	x	1.00	x	1	x	1	=	4.00
										<b>Total</b>	4.00	
										<b>Say</b>	4.00	
6	Point wiring for ligh/fan/bell in 20 mm FRLS grade HMS PVC conduit with 1.5 sq.mm (2+1E) FRLSH grade copper wire with flush type switch and required accessories as per specification No: WG-PW/SW 1-7-3										Number	
	Ware House	1	x	4	x	1.00	x	1	x	1	=	4.00
										<b>Total</b>	4.00	
										<b>Say</b>	4.00	
7	Supplying & erecting 10W 230V integral type LED Lamp suitable for B-22 /E-27 base. 2-8-11										Number	
	Ware House	1	x	2	x	1.00	x	1	x	1	=	4.00
										<b>Total</b>	4.00	





15	Supplying and erecting marine (Waterproof) 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 with									Square Metre
	Ware House	1	x	1	x	1.00	x	1	x	1 = 1.00
										<b>Total</b> 1.00
										<b>Say</b> 1.00
16	Supplying & erecting triple pole and neutral distribution board (TPNDB), 3 pole/ 4 pole MCCB as incomer & outgoing SP MCB (12 poles) or TP MCB of 4 ways (12 poles), with door, 1.2mm thickness, surface/flush mounted, on iron/GI frame (vertical busbar type) as per specification no.SW-SWR/MCBDB1 5-4-15									Number
	Ware House	2	x	1	x	1.00	x	1	x	1 = 2.00
										<b>Total</b> 2.00
										<b>Say</b> 2.00
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 7-6-1									Running Meter
	Ware House	10	x	1	x	1.00	x	1	x	1 = 10.00
										<b>Total</b> 10.00
										<b>Say</b> 10.00
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 7-6-2									Running Meter
	Ware House	1	x	1	x	10.00	x	1	x	1 = 10.00
										<b>Total</b> 10.00
										<b>Say</b> 10.00
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 cable below ground/road surface, to required depth complete. 7-6-10									Running Meter
	Ware House	1	x	1	x	6.00	x	1	x	1 = 6.00
										<b>Total</b> 6.00
										<b>Say</b> 6.00
20	Supplying & erecting 18guage M.S. Box powder coated (4"x4") 3 way for mains connection. MR									Number
	Ware House	2	x	1	x	1.00	x	1	x	1 = 2.00
										<b>Total</b> 2.00
										<b>Say</b> 2.00
21	Supplying & erecting single compression 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 7-7-2									Number
	Ware House	1	x	4	x	1.00	x	1	x	1 = 4.00
										<b>Total</b> 4.00
										<b>Say</b> 4.00



- 22 Supplying and erecting Ceiling rose / Batten holder / Slanting holder / hanging cord switch / hanging bell push / pendant holder bakelite base 6A. erected on filled polypropylene board or polished double wooden block/ PVC junction box. 1-5-7 Number
- |            |   |   |   |   |      |   |   |   |   |              |      |
|------------|---|---|---|---|------|---|---|---|---|--------------|------|
| Ware House | 1 | x | 1 | x | 1.00 | x | 1 | x | 1 | =            | 1.00 |
|            |   |   |   |   |      |   |   |   |   | <b>Total</b> | 1.00 |
|            |   |   |   |   |      |   |   |   |   | <b>Say</b>   | 1.00 |
- 23 Point wiring for independent plug in 20 mm metal conduit with 1.5 sq.mm (2+1E) FRLSH grade copper wire, flush type switch, earthing and required accessories as per specification No: WG-PW/SW 1-7-2 Number
- |            |   |   |   |   |      |   |   |   |   |              |      |
|------------|---|---|---|---|------|---|---|---|---|--------------|------|
| Ware House | 1 | x | 2 | x | 1.00 | x | 1 | x | 1 | =            | 2.00 |
|            |   |   |   |   |      |   |   |   |   | <b>Total</b> | 2.00 |
|            |   |   |   |   |      |   |   |   |   | <b>Say</b>   | 2.00 |
- 24 Wiring for plug on board with Switch socket surface/concealed type, copper wiring and earthing and with modular accessories as per specification No: WGPW/ CW 1-7-26 Number
- |            |   |   |   |   |      |   |   |   |   |              |      |
|------------|---|---|---|---|------|---|---|---|---|--------------|------|
| Ware House | 1 | x | 1 | x | 1.00 | x | 1 | x | 1 | =            | 1.00 |
|            |   |   |   |   |      |   |   |   |   | <b>Total</b> | 1.00 |
|            |   |   |   |   |      |   |   |   |   | <b>Say</b>   | 1.00 |
- 25 Supplying and erecting mains with 2x2.5 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WG-MA/BW 1-3-2 Running Meter
- |            |   |   |   |   |      |   |   |   |   |              |      |
|------------|---|---|---|---|------|---|---|---|---|--------------|------|
| Ware House | 1 | x | 2 | x | 1.00 | x | 1 | x | 1 | =            | 2.00 |
|            |   |   |   |   |      |   |   |   |   | <b>Total</b> | 2.00 |
|            |   |   |   |   |      |   |   |   |   | <b>Say</b>   | 2.00 |
- 26 Supplying and erecting mains with 2x4 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WG-MA/BW 1-3-3 Running Meter
- |            |   |   |   |   |      |   |   |   |   |              |      |
|------------|---|---|---|---|------|---|---|---|---|--------------|------|
| Ware House | 1 | x | 2 | x | 1.00 | x | 1 | x | 1 | =            | 2.00 |
|            |   |   |   |   |      |   |   |   |   | <b>Total</b> | 2.00 |
|            |   |   |   |   |      |   |   |   |   | <b>Say</b>   | 2.00 |
- 27 Supplying and erecting modular type D.P. switch 32A with indicator, duly erected on provided plate and box with wiring connections complete. 1-6-8 Number
- |            |   |   |   |   |      |   |   |   |   |              |      |
|------------|---|---|---|---|------|---|---|---|---|--------------|------|
| Ware House | 1 | x | 1 | x | 1.00 | x | 1 | x | 1 | =            | 1.00 |
|            |   |   |   |   |      |   |   |   |   | <b>Total</b> | 1.00 |
|            |   |   |   |   |      |   |   |   |   | <b>Say</b>   | 1.00 |
- 28 Supplying, erecting and marking double pole isolator only switch version of miniature circuit breaker of 40A with required wiring connections and lugs etc.in provided distribution board. 5-3-14 Number
- |            |   |   |   |   |      |   |   |   |   |              |      |
|------------|---|---|---|---|------|---|---|---|---|--------------|------|
| Ware House | 1 | x | 4 | x | 1.00 | x | 1 | x | 1 | =            | 4.00 |
|            |   |   |   |   |      |   |   |   |   | <b>Total</b> | 4.00 |
|            |   |   |   |   |      |   |   |   |   | <b>Say</b>   | 4.00 |



29	Supplying & erecting 3W, 230V integral type LED Lamp suitable for B-22 / E- 27 base. 2-8-9	Number
Ware House	1 x 1 x 1.00 x 1 x 1 =	1.00
	<b>Total</b>	1.00
	<b>Say</b>	1.00
30	Supplying and erecting IP65 and IK08 rated UV shielded polycarbonate waterproof and dustproof industrial grade LED fitting (4 feet) max. 36W with high transitivity diffuser with system lumens output of min. 4300 lumens , min. efficacy of 120 lumen/W, CRI>80, CCT upto 6500K, Beam Angle of 120 deg., Ripple<5%, THD<10%, p.f. >0.95, operating range of 120-270V, surge protection of 4 kV, Life class of 50,000 Hrs. at L70B50 , IP20 rated, including driver with auto cutoff & auto restart feature at 325V with end caps on PVC lock/wooden board with 3 years warranty. 2-2-1	Number
Ware House	1 x 4 x 1.00 x 1 x 1 =	4.00
	<b>Total</b>	4.00
	<b>Say</b>	4.00
31	Supplying and erecting regular/ standard model ceiling fan of 900 /1050 mm. sweep complete erected in position as per specification no. FG-FN/CF 2-10-2	Number
Ware House	1 x 1 x 1.00 x 1 x 1 =	1.00
	<b>Total</b>	1.00
	<b>Say</b>	1.00
32	Supplying and erecting ding dong / electronic musical type call bell with heavy duty coil suitable to operate on 230V A.C. supply erected on olished double wooden block/sunmica block of suitable size. 2- 2-13	Square Meter
Ware House	1 x 1 x 1.00 x 1 x 1 =	1.00
	<b>Total</b>	1.00
	<b>Say</b>	1.00
33	Supplying and erecting Street light bracket made from 25 mm. dia 'B' class G.I. Pipe, 0.6m. in length along with pole cap of 300 mm length and 80 mm dia duly welded with provided leads as per specification no. FG-BKT/BPC 2-7-1	#REF!
Ware House	1 x 2 x 1.00 x 1 x 1 =	2.00
	<b>Total</b>	2.00
	<b>Say</b>	2.00
34	Supplying & erecting CRCA sheet metal one way enclosures of 1.2mm thickness suitable for DP MCB /TP MCB/FP MCB/RCCB/RCBO complete erected on angle iron/GI frame. 5-4-13	Number
Ware House	1 x 1 x 1.00 x 1 x 1 =	1.00
	<b>Total</b>	1.00
	<b>Say</b>	1.00
35	Supplying, erecting and marking four pole isolators only switch version of miniature circuit breakers of 40A in provided distribution board. 5-3-18	Number
Ware House	1 x 3 x 1.00 x 1 x 1 =	3.00
	<b>Total</b>	3.00
	<b>Say</b>	3.00

*Rohasakar*  
Chartered Engineer  
**Gaurav Rajendra Bilaskar**  
B.E.(Civil) A.M.I.E.  
Chartered Engineer  
AM3023322

*Zeetha*  
Consulting Engineer  
**SAI CONSULTANT**  
Consulting Civil Engineer  
Rahuri, Dist. Ahmednagar

