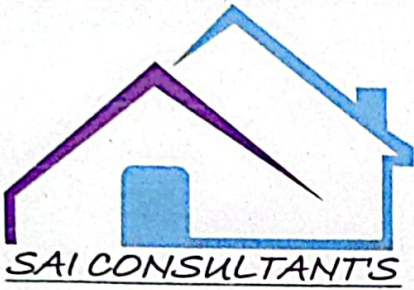


ESTIMATE

Name Of Work :- Proposed Construction of 890MT Warehouse Building For Bajrang Bali Farmers Producer Co.ltd, At-Warkhed,Post-Soundala,Tq-Telhara, Dist- Akola (MH)

Estimated Cost of Works (Rs.) :- 10586283.00

Rupees One Crore Five Lack Eighty Six Thousand Two Hundred Eighty Three Only.



SAI CONSULTANTS

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 890MT Warehouse Building For Bajrang
Bali Farmers Producer Co.ltd, At-Warkhed, Post-Soundala, Tq-Telhara, Dist- Akola (MH)

RECAPITUALTION SHEET

1	S.W. I - W.H. Building	Rs.	7280472.00
2	S.W. II - Internal Bituminous roads	Rs.	1177529.00
3	Add Royalty WH + Road	Rs.	180577.56
4	Add Testing Charges	Rs.	101600.00
5	Add.18.00 % GST W.H. Building	Rs	1310485.00
	A) Total Rs.		10050663.56
6	Add. 3% Contingencies on Total	Rs	301113.00
7	Add. 1 % Insurance on Part A	Rs.	100507.00
	Total Rs.		10452283.56
8	Sub Work No:-III Electrification	Rs.	110743.00
	Total Rs.		110743.00
9	Add.18.00 % GST On Electrical Work	Rs	19934.00
10	Add. 3% Contingencies on Electrical	Rs	3322.00
	B) Total Rs.		133999.00
	Grand Total (A+B) Rs.		10586282.56
	Say Rs.		10586283.00

Rupees One Crore Five Lack Eighty Six Thousand Two Hundred Eighty Three 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 890MT Warehouse Building For Bajrang Bali Farmers Producer Co.ltd, At-Warkhed,Post-Soundala,Tq-Telhara, Dist- Akola (MH)

S.W. I - W.H.Building

ABSTRACT

Quantity	I.No	Item of work	Rate	unit	Amount
114.09	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	23616.63
73.31	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	20820.04
132.57	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 ;	2604.55	Cubic Metre	345285.19
187.40	4	Filling in plinth and floors with approved excavated material in 15cm. to 20cm. layersincluding watering and compacting etc. complete.	120.00	Cubic Metre	22488.00
243.20	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	254683.90
49.55	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)	2726.86	Cubic Metre	135115.91
55.98	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)	7058.73	Cubic Metre	395147.71



Quantity	I.No	Item of work	Rate	unit	Amount
22.63	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)	8466.44	Cubic Metre	191595.54
18.14	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)	15146.44	Cubic Metre	274756.42
27.16	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)	13581.48	Cubic Metre	368873.00



Quantity	I.No	Item of work	Rate	unit	Amount
1.31	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)	18727.87	Cubic Metre	24533.51
3.36	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	15295.44	Cubic Metre	51392.68
6.24	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	559746.72



Quantity	I.No	Item of work	Rate	unit	Amount
54.16	14	Providing dry rubble stone pitching 23cm (about 9) thick including all material, quarry spalls, labour etc.complete.	1635.55	Square Metre	88581.39
10.39	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,	7944.65	Cubic Metre	82544.91
95.67	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	8183.65	Cubic Metre	782929.80
1234.70	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.	659.02	Square Metre	813691.99
31.57	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	152388.39
1234.70	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	9877.60
1234.70	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	98776.00



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 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)	4829.00	Square Metre	121690.80
478.33	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. .	912.68	Square Metre	436562.22
10.62	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	1268654.58
541.44	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	635109.12



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 ² , including fastening with self drilling screw having washers made of stainless steel etc. complete.	1594.00	Square Metre	43994.40
				Total Rs.	7280472.45
			Part A)	Say Rs.	7280472.00
201.73	27	Royalty Charges for sand	237.37	Cum	47884.65
429.93		Royalty Charges for Rubble and HM	216.18	Cum	92942.27
1.00	28	Material Testing Charges	49490.00		49490.00
				Total Rs.	190316.92
			Part B)	Say Rs.	190317.00


 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 890MT Warehouse Building For Bajrang Bali Farmers Producer Co.ltd, At-Warkhed,Post-Soundala,Tq-Telhara, Dist- Akola (MH)

S.W. I - W.H.Building

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	16	x	1.60	x	1.60	x	1.50	=	61.44	Cum
For RCC Coloumn Type C2	6	x	1.50	x	1.50	x	1.50	=	20.25	
For RCC Coloumn Type C4	4	x	1.50	x	1.50	x	1.20	=	10.80	
For RCC Coloumn Type C5	8	x	1.50	x	1.50	x	1.20	=	21.60	
Total Qty									=	114.09 Cum

- 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	16	x	1.60	x	1.60	x	0.90	=	36.86	Cum
For RCC Coloumn Type C2	6	x	1.50	x	1.50	x	0.90	=	12.15	
For RCC Coloumn Type C4	4	x	1.50	x	1.50	x	0.90	=	8.10	
For RCC Coloumn Type C5	8	x	1.50	x	1.50	x	0.90	=	16.20	
Total Qty									=	73.31 Cum

- 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	16	x	1.60	x	1.60	x	0.30	=	12.29	Cum
For RCC Coloumn Type C2	6	x	1.50	x	1.50	x	0.30	=	4.05	
For RCC Coloumn Type C4	4	x	1.50	x	1.50	x	0.23	=	2.07	
For RCC Coloumn Type C5	8	x	1.50	x	1.50	x	0.23	=	4.14	
Ware House Plinth	1	x	30.82	x	15.52	x	0.23	=	110.02	
Total Qty									=	132.57 Cum

- 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 = 187.40 cum

Item no.1 & 2

Total Qty = 187.40 cum

- 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 29.62 x 14.32 x 0.65 = 275.70 cum

Deduction Internal side WH. 2 x 30.82 x 0.60 x 0.60 = 22.19

Periphery Rubble fillig 2 x 14.32 x 0.60 x 0.60 = 10.31

32.50

Total Qty = 243.20 cum



- 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	30.82	x	0.60	x	0.10	=	3.70	cum
	2	x	14.32	x	0.60	x	0.10	=	1.72	
Ware House Flooring Soling	1	x	30.82	x	14.32	x	0.10	=	44.13	
								Total Qty	= 49.55	cum

- 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	16	x	1.60	x	1.60	x	0.10	=	4.10	cum
For RCC Coloumn Type C2	6	x	1.50	x	1.50	x	0.10	=	1.35	
For RCC Coloumn Type C4	4	x	1.50	x	1.50	x	0.10	=	0.90	
For RCC Coloumn Type C5	8	x	1.50	x	1.50	x	0.10	=	1.80	
Ware House Plinth	1	x	30.82	x	15.52	x	0.10	=	47.83	cum
								Total Qty	= 55.98	cum

- 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	16	x	1.30	x	1.30	x	0.45	=	12.17	cum
For RCC Coloumn Type C2	6	x	1.20	x	1.20	x	0.45	=	3.89	
For RCC Coloumn Type C4	4	x	1.20	x	1.20	x	0.38	=	2.19	
For RCC Coloumn Type C5	8	x	1.20	x	1.20	x	0.38	=	4.38	
								Total Qty	= 22.63	cum

- 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	16	x	0.23	x	0.45	x	6.62	=	10.96	cum
For RCC Coloumn Type C2	6	x	0.23	x	0.45	x	6.62	=	4.11	
For RCC Coloumn Type C4	4	x	0.23	x	0.45	x	4.20	=	1.74	
For RCC Coloumn Type C5	8	x	0.23	x	0.38	x	1.90	=	1.33	
								Total Qty	= 18.14	cum



- 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	14	x	4.20	x	0.23	x	0.45	=	6.09
Short Wall Ground Beams	8	x	3.56	x	0.23	x	0.45	=	2.95
Varandah Plinth Beams Long	4	x	3.90	x	0.23	x	0.45	=	1.61
Varandah Plinth Beams Short	8	x	1.60	x	0.23	x	0.23	=	0.68
Long & Short Wall above V2	36	x	0.95	x	0.23	x	0.23	=	1.81
Long Wall Lintel Beams	10	x	4.20	x	0.23	x	0.38	=	3.67
Long Wall Beams Above RS	4	x	3.74	x	0.23	x	0.38	=	1.31
Long Wall Floor Beams	14	x	4.20	x	0.23	x	0.45	=	6.09
Short Wall Floor Beams	8	x	3.56	x	0.23	x	0.45	=	2.95
								Total Qty	= 27.16 cum

- 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 positions 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	18	x	1.56	x	0.45	x	0.075	=	0.95
Long Wall Ventilators V2 Sides	36	x	0.45	x	0.30	x	0.075	=	0.36
								Total Qty	= 1.31 cum

- 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	4.20	x	1.60	x	0.125	=	3.36
								Total Qty	= 3.36 cum

- 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	22.63	@	75.00	Kg	=	1697.25	Kg
For RCC Coloumn	18.14	@	90.00	Kg	=	1632.60	Kg
For RCC Beam	27.16	@	90.00	Kg	=	2444.40	Kg
For RCC Fins	1.31	@	70.00	Kg	=	91.70	Kg
For RCC Slab	3.36	@	110.00	kg	=	369.60	kg
					Total Qty	= 6235.55	Kg
					Say	= 6.24	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	30.82		x	0.60	=	36.98	Sqm
Short Wall Internal Side Over size Metal in 2 Layers	2	x	14.32		x	0.60	=	17.18	
								Total Qty	= 54.16 Sqm

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	14	x	4.20	x	0.23	x	0.55	=	7.44	cum
Short Wall Ground Beams	8	x	3.56	x	0.23	x	0.45	=	2.95	
								Total	10.39	
								Total Qty	= 10.39 cum	

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	14	x	4.20	x	0.23	x	5.15	=	69.65	cum
Short Wall Superstructure	8	x	3.56	x	0.23	x	5.15	=	33.73	cum
Short Gable Wall	2	x	7.76	x	0.23	x	1.50	=	5.35	
								Total	= 108.73	
Deduction For V2	36	x	0.60	x	0.60	x	0.23	=	2.98	
Deduction For V1	22	x	1.41	x	0.60	x	0.23	=	4.28	
Deduction For RS	4	x	2.10	x	3.00	x	0.23	=	5.80	
								Total	= 13.06	
								Total Qty	= 95.67 cum	

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	31.28		x	6.50	=	406.64	Sqm
Short Wall	2	x	15.98		x	6.50	=	207.74	
Long Wall	2	x	31.28		x	5.50	=	344.08	
Short Wall	2	x	15.98		x	5.50	=	175.78	
Short Span Gable Walls External	2	x	7.76		x	1.50	=	23.28	
Short Span Gable Walls Internal	2	x	7.76		x	1.50	=	23.28	
Long Wall Coloumn Offsets C1	16	x	0.44		x	6.50	=	45.76	
Long Wall Coloumn Offsets C2	6	x	0.44		x	6.50	=	17.16	
Long Wall Coloumn Offsets C5	8	x	1.36		x	1.20	=	13.06	
Verandah Slab	4	x	4.66		x	1.83	=	34.11	
Verandah Slab Sides	8	x	1.83		x	0.38	=	5.56	
Verandah Slab Front	4	x	4.66		x	0.38	=	7.08	
V2 Top	36	x	1.56		x	0.45	=	25.27	



V2 Sides	72	x	0.45	x	0.60	=	19.44	
							<u>1348.24</u>	
Deduction								
Deduction For V2 Both Side	72	x	0.60	x	0.60		25.92	
Deduction For V1 Both Side	44	x	1.41	x	0.60		37.22	
Deduction For RS Both Side	8	x	2.10	x	3.00		50.40	
							<u>113.54</u>	
							<u>1234.70</u>	Sqm

- 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	36	x	0.60	x	0.60	=	12.96	Sqm
V1	22	x	1.41	x	0.60		18.61	
							<u>31.57</u>	Sqm

- 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						=	1234.70	Sqm
							<u>1234.70</u>	Sqm

- 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						=	1234.70	Sqm
							<u>1234.70</u>	Sqm

- 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 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)

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

- 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.

Warehouse Flooring	1	x	30.82	x	15.52	=	478.33	Sqm
							<u>478.33</u>	Sqm



- 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.

PEB Structure With Purlin	6	x	1550.00	x		=	9300.00	MT
Varandah Canopy	4	x	330.00	x	x	=	1320.00	
							<u>10620.00</u>	
						Total Qty	= 10.62	MT

- 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	8.50	x	31.28	=	531.76	Sqm
Verandah	4	x	4.66	x	2.00	=	37.28	
							<u>569.04</u>	
						Total	569.04	
Deduction For Turbo Ventilator & Sky light Upvc roof	8.00	x	3.00	x	1.150	=	27.60	
							<u>27.60</u>	
						Total	27.60	
						Total Qty	= 541.44	Rmt

- 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.
						Total Qty	= 8.00	No.

- 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/ cm², 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
						Total Qty	= 27.60	Sqm

- 27 Royalty Charges

	Material	Qty		Qty of Material	Cum				
6	Providing and filling in the foundati	1	x	49.55	x	1.000	=	49.55	Cum
7	Providing and laying Cast in situ/ R	1	x	55.98	x	0.470	=	26.31	
8	Providing and laying in situ cement	1	x	22.63	x	0.425	=	9.62	
9	Providing and laying Cast in situ/R	1	x	18.14	x	0.425	=	7.71	
10	Providing second class Burnt Brick	1	x	27.16	x	0.425	=	11.54	
11	Providing sand faced plaster extern:	1	x	1.31	x	0.425	=	0.56	
12	Providing and casting in situ cemen	1	x	3.36	x	0.425	=	1.43	
15	Providing Brick masonry in cement	1	x	10.39	x	0.320	=	3.32	
16	Providing second class Burnt Brick	1	x	95.67	x	0.320	=	30.61	
17	Providing sand faced plaster extern:	1	x	1234.70	x	0.033	=	40.75	



S.W. I - W.H.Building

RATE ANALYSIS AS PER PWD SSR 2022-23 For MAHARASHTRA 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			
1	Excavation for foundation in earth, soil of all types, sand, gr	21.02	207.00	1222.55	566.86	999.30	252.22	5.22	0.00	207.00	
2	Excavation for foundation in Hard murum in cluding remov	21.08	284.00						0.00	284.00	
3	Providing dry trap/ granite/ quartzite/ gneiss rubble stone so	21.38	1382.00	1.00	1222.55				1222.55	2604.55	
4	Filling in plinth and floors with approved excavated materia	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 approve	21.39	2160.00		1.00	566.86			566.86	2726.86	
7	Providing and laying Cast in situ/ Ready Mix cement concre	24.01	5830.00		0.47	266.42	0.940	939.34	4.40	7058.73	
8	Providing and laying in situ cement concrete of M-25 grade	25.13	7287.00		0.425	240.92	0.90	899.37	7.50	8466.44	
9	Providing and laying Cast in situ/Ready Mix cement concre	25.33	13967.00		0.425	240.92	0.90	899.37	7.50	15146.44	
10	Providing and laying Cast in situ/Ready Mix cement concre	25.52	12452.00		0.425	240.92	0.85	849.41	7.50	13581.48	
11	Providing and laying Cast in situ/Ready Mix cement concre	26.31	17601.00		0.425	240.92	0.85	849.41	7.00	18727.87	
12	Providing and casting in situ cement concrete of M-25 grad	25.72	14116.00		0.425	240.92	0.90	899.37	7.50	15295.44	
13	Providing and fixing in position TMT - FE - 500 bar reinfor	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	1222.55				1222.55	1635.55	
15	Providing Brick masonry in cement mortar 1.6 using second	27.01	7755.00		0.32	181.40			1.58	7944.65	
16	Providing second class Burnt Brick masonry with conventic	27.05	7994.00		0.32	181.40			1.58	8183.65	
17	Providing sand faced plaster externally in cement mortar us	32.11	639.00		0.033	18.71			0.25	659.02	
18	Providing and fixing steel ventilat or fully glazed partly fixe	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 c	36.12	80.00						0.00	80.00	
21	Providing and fixing rolling shutter fabricated from steel at	39.24	4829.00						0.00	4829.00	
22	Providing and laying in situ cement concrete M20 with tren	33.30	796.00		0.043	24.09	0.089	88.94	0.70	912.68	
23	Providing structural steel work in trusses, other similar truss	23.04	119459.00						0.00	119459.00	
24	Providing and fixing colour coated Zincalume (R) AZ 150 (38.34	1173.00						0.00	1173.00	
25	Turbo ventilator 24" MATERIAL RATES FOR SSR For Ye	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 roofir	38.37	1594.00						0.00	1594.00	
27	Royalty Charges for Rubble and HM		216.18						0.00	216.18	



Bohaka
Consulting Engineer

SAI CONSULTANT
Consulting Civil Engineer
Rahuri, Dist. Ahmednagar

Bohaka
Chartered Engineer

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

Name Of Work :- Proposed Construction of 890MT Warehouse Building For Bajrang Bali Farmers Producer Co.ltd, At-Warkhed,Post-Soundala,Tq-Telhara, Dist- Akola (MH)

Appendix - I

Lead Chart

Sr. No.	Description	Rubble	Murum	Crush metal	Crush metal 40 mm above	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	60.00	5.00	60.00	60.00	25.00	1.00	1.00	
2	Lead charges	1222.55	252.22	999.30	957.66	566.86	104.39	104.39	
4	Extra lead charges	1222.55	252.22	999.30	957.66	566.86	104.39	104.39	
5	Extra lead charges per bag of cement						5.22		

Bhaskar
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Name Of Work :- Proposed Construction of 890MT Warehouse Building For Bajrang Bali Farmers Producer Co.ltd, At-Warkhed,Post-Soundala,Tq-Telhara, Dist- Akola (MH)

S.W. 1 - W.H.Building

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		6	4	2	690.00	1380.00
M 20	47.83	16.74	2.03		43.05			2	1	1	690.00	690.00
M 25	78.05	29.27	3.32		70.25			6	4	2	690.00	1380.00
Total	164.08	54.41	23.30		149.20	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	5	3	2	3770.00	7540.00
						Sand-Fineness Modulus, Silt Content	1/ Source	3	2	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
						GSB Mix Design./Cement Treated Sub Base (CTSB)		2	1	1	16250.00	16250.00
						Concrete Mix Design (With all Tests on basic materials)		2	1	1	13755.00	13755.00
											Total	49490.00

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

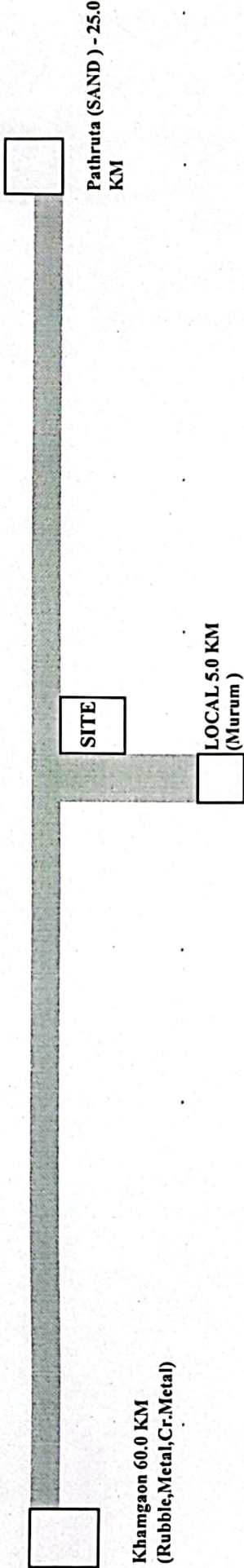
Zadhwa
Consulting Engineer
SAI CONSULTANT
Consulting Civil Engineer
Rahuri, Dist. Ahmednagar



Name Of Work :- Proposed Construction of 890MT Warehouse Building For Bajrang Bali Farmers Producer Co.ltd, At-Warkhed,Post-Soundala,Tq-Telhara, Dist- Akola (MH)

S.W. I - W.II Building

Quarry Chart



LEAD STATEMENT

Material	Quarry	Lead in Km.
Rubble	Khamgaon	60.00
Metal	Khamgaon	60.00
Crushed Metal	Khamgaon	60.00
Murum	Local	5.00
Sand	Pathruta	25.00

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.

Bhaskar
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Gaurav Rajendra Bhaskar
B.E.(Civil) A.M.I.E.
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Name Of Work :- Proposed Construction of 890MT Warehouse Building For Bajrang Bali Farmers Producer Co.ltd, At-Warkhed,Post-Soundala,Tq-Telhara, Dist- Akola (MH)

S.W. II - Internal Bituminous roads

ABSTRACT

Quantity	I.No	Item of work	Rate	unit	Amount
966.00	1	Clearing grass and removal of rubbish up to a distance of 50 metres outside the periphery of the area .	4.00	Sqm	3864.00
115.92	2	Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing to proper grade and camber, applying and brooming requisite type of screening/ binding Materials to fill up the interstices of coarse aggregate, watering and compacting with Vibratory roller. to the required density. By Mechanical Means - Grading I (Using Screening Type A (13.2) mm Aggregate)	3651.76	Cum	423312.02
54.34	3	Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing to proper grade and camber, applying and brooming requisite type of screening/ binding Materials to fill up the interstices of coarse aggregate, watering and compacting with vibratory roller to the required density. By Mechanical Means - Grading II (Using Screening Type B (11.2 mm) Aggregate)	3610.78	Cum	196200.76
603.75	4	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)	361.68	Sqm	218364.30



Quantity	I.No	Item of work	Rate	unit	Amount
603.75	5	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)	213.46	Sqm	128876.48
603.75	6	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-	132.38	Sqm	79924.43
115.92	7	Supplying hard murum/ kankar at the road site, including conveying and stacking complete.	850.22	Cum	98557.50
115.92	8	Spreading hard murum/ soft murrum/ gravel or kankar for side width complete	79.00	Cum	9157.68
917.70	9	Compacting the hard murum side widths including laying in layers on each side with vibratory roller including artificial watering etc. complete.	21.00	Sqm	19271.70
				Total Rs.	1177528.87
			Part A)	Say Rs.	1177529.00
183.88	10	Royalty Charges	216.18	Cum	39750.64
1.00		Material Testing Charges	52110.00		52110.00
				Total Rs.	91860.64
			Part B)	Say Rs.	91861.00

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Name Of Work :- Proposed Construction of 890MT Warehouse Building For Bajrang Bali Farmers Producer Co.ltd, At-Warkhed,Post-Soundala,Tq-Telhara, Dist- Akola (MH)

S.W. II - Internal Bituminous roads

I.No.

MEASUREMENT SHEET

- 1 Clearing grass and removal of rubbish up to a distance of 50 metres outside the periphery of the area .

Road formation

New Road

Ware House Periferi

$$1 \times 110.00 \times 6.00 = 660.00 \text{ Sqm}$$

Entrance Road

$$1 \times 51.00 \times 6.00 = 306.00$$

$$\text{Total Qty} = 966.00 \text{ Sqm}$$

- 2 Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing to proper grade and camber, applying and brooming requisite type of screening/ binding Materials to fill up the interstices of coarse aggregate, watering and compacting with Vibratory roller. to the required density. By Mechanical Means - Grading I (Using Screening

Ware House Periferi

$$1 \times 110.00 \times 4.80 \times 0.15 = 79.20 \text{ Cum}$$

Entrance Road

$$1 \times 51.00 \times 4.80 \times 0.15 = 36.72$$

$$\text{Total Qty} = 115.92 \text{ Cum}$$

- 3 Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing to proper grade and camber, applying and brooming requisite type of screening/ binding Materials to fill up the interstices of coarse aggregate, watering and compacting with vibratory roller to the required density. By Mechanical Means - Grading II (Using Screening

Ware House Periferi

$$1 \times 110.00 \times 4.50 \times 0.075 = 37.13 \text{ Cum}$$

Entrance Road

$$1 \times 51.00 \times 4.50 \times 0.075 = 17.21 \text{ Cum}$$

$$\text{Total Qty} = 54.34 \text{ Cum}$$

- 4 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.

Ware House Periferi

$$1.00 \times 110.00 \times 3.75 = 412.50 \text{ Sqm}$$

Entrance Road

$$1.00 \times 51.00 \times 3.75 = 191.25$$

$$\text{Total Qty} = 603.75 \text{ Sqm}$$

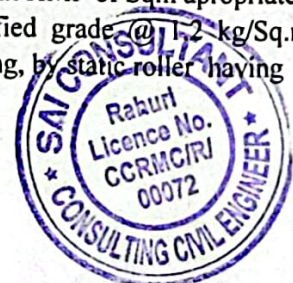
- 5 Open Graded Premix Surfacing- Providing and Laying OGC 20 mm thickness composed of 13.2 mm to 5.6 mm aggregates premixed with bituminous binder @ 1.56 Kg/Sqm transported to site with VTS, laid over a previously prepared surface, finished to the required grade, level, alignment, and rolling to achieve 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 New Road

$$1.00 \times 603.75 = 603.75 \text{ Sqm}$$

$$\text{Total Qty} = 603.75 \text{ Sqm}$$

- 6 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/Sqm, preparing existing road surface by mechanical means, spreading chips and rolling, by static roller having weight 8 to 10 MT etc. complete. (VG-



Qty same as per Item No. 5 = 603.75 Sqm
Total Qty = 603.75 Sqm

7 Supplying hard murum/ kankar at the road site, including conveying and stacking complete.
 For Blanketing 1.00 x 161.00 x 4.50 x 0.10 = 72.45 Cum
 Side Strips 2.00 x 161.00 x 0.90 x 0.15 = 43.47 Cum
Total Qty = 115.92 Cum

8 Spreading hard murum/ soft murrum/ gravel or kankar for side width complete
 Qty same as per Item No. 7 = 115.92 Cum
Total Qty = 115.92 Cum

9 Compacting the hard murum side widths including laying in layers on each side with vibratory roller including artificial watering etc. complete.
 For Blanketing 1.00 x 161.00 x 4.50 = 724.50 Sqm
 Side Strips 2.00 x 161.00 x 0.60 = 193.20 Sqm
Total Qty = 917.70 Sqm

10 Royalty Charges

Material	Qty	Consumption	Qty of Material	
Grd I & Grd II	170.26	x 0.08	= 13.62	Cum
Murum	115.92	x 1.00	= 115.92	
MPM 40mm metal	603.75	x 0.09	= 54.34	
Hm and Rubble Total Qty			= 183.88	Cum
			= 183.88	Cum

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

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 Consulting Engineer
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 Rahuri, Dist. Ahmednagar



Name Of Work :- Proposed Construction of 890MT Warehouse Building For Bajrang Bali Farmers Producer Co.ltd, At-Warkhed,Post-Soundala,Tq-Telhara, Dist- Akola (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 2022-23 Road Sub Base and Base Course I.No.3.35a	Rs	280.00	Per Sqm
<u>Add for asphalt</u>	46040	-	32877 = 13163 x 0.002
<u>Diff.016/09/2022</u>		Rs	26.33 Per Sqm
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
Total Rate	Rs	361.68	Per Sqm

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	175.00	Per Sqm
<u>Add for asphalt</u>	46040	-	32877 = 13163 x 0.00171
<u>Diff.016/09/2022</u>		Rs	22.51 Per Sqm
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		Total Rate	Rs 213.46 Per Sqm

Item No.16:- 9 MM SEAL COAT: Providing and laying of Type A 9 mm premix seal coat with HMP of Sqm appropriate 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	113.00	Per Sqm
<u>Add for asphalt</u>	46040	-	32877 = 13163 x 0.00098
<u>Diff.016/09/2022</u>		Rs	12.90 Per Sqm
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		Total Rate	Rs 132.38 Per Sqm

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Name Of Work :- Proposed Construction of 890MT Warehouse Building For Bajrang Bali Farmers Producer Co.ltd, At-Warkhed, Post-Soundala, Tq-Telhara, Dist- Akola (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			
1	Clearing grass and removal of rubbish up to a distance of	2.07	4.00	1222.55	566.86	999.30	252.22	5.22	0.00	4.00	
2	Providing, laying, spreading and compacting stone	3.18	2203.00	1.21		0.27	20.1776		1448.76	3651.76	
3	Providing, laying, spreading and compacting stone aggregate	3.20	2192.00	1.21		0.24	20.18		1418.78	3610.78	
4	Providing and constructing 75 mm. thick Modified Per	3.35a	361.68						0.00	361.68	
5	Open Graded Premix Surfacing- Providing and Laying	4.12	213.46						0.00	213.46	
6	9 MM SEAL COAT: Providing and laying of Type A 9	4.01	132.38						0.00	132.38	
7	Supplying hard murum/ kankar at the road site, including	2.29a	598.00				1.00	252.22	252.22	850.22	
8	Spreading hard murum/ soft murum/ gravel or kankar	2.30	79.00						0.00	79.00	
9	Compacting the hard murum side widths including laying	2.31	21.00						0.00	21.00	
10	Royalty Charges		216.18						0.00	216.18	

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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
HM and E/W	115.92	115.92				Plasticity Index for Murrum	1/400 Cum	0	0	1	1170.00	1170.00
Grd I&II	170.26	13.6206		206.01158		Combined Flakiness & Elongation of single metal	1/350 Cum	1	1	1	850.00	850.00
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	B. M. Mix Design with all Tests on aggregate (Excluding bitumen) (Testing of Bitumen shall be seperately Charged)	1 Mix Design	3		3	7490.00	22470.00
						Penetration, Softening Point, Flash & Fire Point, Specific Gravity	2/day	2	1	1	3135.00	3135.00
						Extraction Test.(Bituminous mix)	1 Test	5	3	2	1595.00	3190.00
						Job Mix Design with all Tests on aggregate (Excluding bitumen) for DBM/SDBC/AC/SMA (Stone Mastic Ashphalt)	1 Test	2	1	1	16250.00	16250.00
						Viscosity	2/day	2	1	1	1910.00	1910.00
											Total	52110.00

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Sub Work No:-III Electrification

ABSTRACT

Quantity	I.No	Item of work	Rate	unit	Amount
28.00	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	3836.00
18.00	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	2898.00
9.00	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	1791.00
36.00	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	3348.00
2.00	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	1600.00
16.00	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	30864.00
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
6.00	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	11574.00



Quantity	I.No	Item of work	Rate	unit	Amount
6.00	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	4416.00
1.00	10	Providing earthing with galvanized iron earth plate size 60 x 60 x 0.6 cm complete with all materials, testing & recording the results as per specification no. EA-EP 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
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	6568.00	Number	6568.00
4.00	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 Meter	868.00



Quantity	I.No	Item of work	Rate	unit	Amount
4.00	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	1348.00
4.00	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	964.00
1.00	20	Supplying & erecting 18guage M.S. Box powder coated (4"x4") 3 way for mains connection. MR	500.00	Number	500.00
8.00	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	696.00
6.00	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	234.00
3.00	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	2823.00
4.00	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	1544.00
20.00	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	1240.00
10.00	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	890.00
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
2.00	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	620.00
4.00	29	Supplying & erecting 3W, 230V integral type LED Lamp suitable for B-22 / E- 27 base. 2-8-9	126.00	Number	504.00
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
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. 2-3-13	140.00	Number	140.00
4.00	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	2620.00
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
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	698.00	Number	698.00
				Total Rs.	110743.00
			Part A)	Say Rs.	110743.00

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Sub Work No:-III Electrification

MEASUREMENT SHEET

Item. No.	Description of Items	NO.	LENTII	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	28.00	x	1	x	1	=	28.00	
												Total	28.00
												Say	28.00
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	18.00	x	1	x	1	=	18.00	
												Total	18.00
												Say	18.00
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	9.00	x	1	x	1	=	9.00	
												Total	9.00
												Say	9.00
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	36.00	x	1	x	1	=	36.00	
												Total	36.00
												Say	36.00
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	2	x	1.00	x	1	x	1	=	2.00	
												Total	2.00
												Say	2.00
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											Number	
	Ware House	1	x	16	x	1.00	x	1	x	1	=	16.00	
												Total	16.00
												Say	16.00
7	Supplying & erecting 10-12W, 230V integral type LED Lamp suitable for B-22 /E-27 base. 2-8-11											Number	
	Ware House	2	x	2	x	1.00	x	1	x	1	=	4.00	
												Total	4.00



										Say	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									Number		
	Ware House	6	x	1	x	1.00	x	1	x	1	=	6.00
										Total	6.00	
										Say	6.00	
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									Number		
	Ware House	6	x	1	x	1.00	x	1	x	1	=	6.00
										Total	6.00	
										Say	6.00	
10	Providing earthing with galvanized iron earth plate size 60 x 60 x 0.6 cm complete with all materials, testing & recording the results as per specification no. EA-EP 9-1-1									Number		
	Ware House	1	x	1	x	1.00	x	1	x	1	=	1.00
										Total	1.00	
										Say	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									Number		
	Ware House	1	x	1	x	1.00	x	1	x	1	=	1.00
										Total	1.00	
										Say	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									Number		
	Ware House	1	x	1	x	1.00	x	1	x	1	=	1.00
										Total	1.00	
										Say	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									Number		
	Ware House	1	x	1	x	1.00	x	1	x	1	=	1.00
										Total	1.00	
										Say	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									Square Metre		
	Ware House	1	x	1	x	1.00	x	1	x	1	=	1.00
										Total	1.00	
										Say	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									Square Metre
	Ware House	1	x	1	x	1.00	x	1	x	1 = 1.00
										Total 1.00
										Say 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	1	x	1	x	1.00	x	1	x	1 = 1.00
										Total 1.00
										Say 1.00
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	4	x	1	x	1.00	x	1	x	1 = 4.00
										Total 4.00
										Say 4.00
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	4.00	x	1	x	1 = 4.00
										Total 4.00
										Say 4.00
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	4.00	x	1	x	1 = 4.00
										Total 4.00
										Say 4.00
20	Supplying & erecting 18 gauge M.S. Box powder coated (4"x4") 3 way for mains connection. MR									Number
	Ware House	1	x	1	x	1.00	x	1	x	1 = 1.00
										Total 1.00
										Say 1.00
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	8	x	1.00	x	1	x	1 = 8.00



Total 8.00

Say 8.00

- 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 6 x 1.00 x 1 x 1 = 6.00

Total 6.00

Say 6.00

- 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 3 x 1.00 x 1 x 1 = 3.00

Total 3.00

Say 3.00

- 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 4 x 1.00 x 1 x 1 = 4.00

Total 4.00

Say 4.00

- 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 20 x 1.00 x 1 x 1 = 20.00

Total 20.00

Say 20.00

- 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 10 x 1.00 x 1 x 1 = 10.00

Total 10.00

Say 10.00

- 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

Total 1.00

Say 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 2 x 1.00 x 1 x 1 = 2.00

Total 2.00

Say 2.00



- 29 Supplying & erecting 3W, 230V integral type LED Lamp suitable for B-22 / E- 27 base. 2-8-9 Number
- | | | | | | | | | | | | |
|------------|---|---|---|---|------|---|---|---|---|--------------|------|
| Ware House | 1 | x | 4 | x | 1.00 | x | 1 | x | 1 | = | 4.00 |
| | | | | | | | | | | Total | 4.00 |
| | | | | | | | | | | Say | 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 Number
- | | | | | | | | | | | | |
|------------|---|---|---|---|------|---|---|---|---|--------------|------|
| Ware House | 1 | x | 4 | x | 1.00 | x | 1 | x | 1 | = | 4.00 |
| | | | | | | | | | | Total | 4.00 |
| | | | | | | | | | | Say | 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 |
| | | | | | | | | | | Total | 1.00 |
| | | | | | | | | | | Say | 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. 2-3-13 Square Meter
- | | | | | | | | | | | | |
|------------|---|---|---|---|------|---|---|---|---|--------------|------|
| Ware House | 1 | x | 1 | x | 1.00 | x | 1 | x | 1 | = | 1.00 |
| | | | | | | | | | | Total | 1.00 |
| | | | | | | | | | | Say | 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 Nos.
- | | | | | | | | | | | | |
|------------|---|---|---|---|------|---|---|---|---|--------------|------|
| Ware House | 1 | x | 4 | x | 1.00 | x | 1 | x | 1 | = | 4.00 |
| | | | | | | | | | | Total | 4.00 |
| | | | | | | | | | | Say | 4.00 |
- 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 |
| | | | | | | | | | | Total | 1.00 |
| | | | | | | | | | | Say | 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 | 1 | x | 1.00 | x | 1 | x | 1 | = | 1.00 |
| | | | | | | | | | | Total | 1.00 |
| | | | | | | | | | | Say | 1.00 |



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