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RUPALISHIV FARMER PRODUCER CO. LTD.  
GAT NO 246, DONGAON(BK) ,TAL-BILOLI, DIST- NANDED.

RECAPULATION SHEET  
FINAL

NAME OF WORK :- PROPOSED CONSTRUCTION OF 600 MT CAP.WH BLDG WITH ANCILLARY WORKS AT  
GUT NO 246 ,DONGAON,TAL-BILOLI, DIST- NANDED.

Based on E SSR -2021-22

PARTICULARS			AMOUNT	600	Cost per MT
	Cap.	Unit		Cost per MT	
Sub Work :-I Const. of 600 MT WH Bldg.	600	MT	Rs 5120038	8533	Cost per MT
Sub Work II :- Electrification		1.5%	Rs 76801		
Sub Work III :- Royalty Charges			Rs 100473		
Sub work IV:- Material Lab Testing charges			Rs 35020		
		TOTAL COST	5332332	8887	Cost per MT
	Add GST	12%	Rs 639880		
	Add L.I.	0.5%	Rs 26662		
	<b>Grand Total</b>		Rs <u>5998873</u>	9998	Cost per MT
	<b>Say</b>		<b><u>5999000</u></b>		

*K.K.*  
KUSHAGRA HAWGEER KENCHE  
B.E.(CIVIL), PG-PROJECT MANAGEMENT  
ENGINEER & CONTRACTOR  
BILOLI-431710

**RUPALISHV FARMER PRODUCER CO. LTD.**

GAT NO 246, DONGAON(BK), TAL-BILOLI, DIST- NANGED.

**NAME OF WORK :- PROPOSED CONSTRUCTION OF 600 MT CAP. WH BLDG WITH ANCILLARY WORKS AT GUT NO 246, DONGAON, TAL-BILOLI, DIST- NANGED.**

Based on E SSR -2021-22

S.N.	LEADS & RATES OF MATERIALS		UNIT	LEADS KM	CHARGES ACTUAL	INITIAL	Pay load Factor
	MATERIAL & LOCATION	AMOUNT					
1	SAND	40.00	660.06	0.00	660.1	1.00	
2	METAL UP TO 40MM crushed	40.00	660.06	0.00	660.1	1.00	
3	METAL ABOVE 40 MM Road	40.00	632.56	0.00	632.6	1.00	
4	RUBBLE	40.00	632.56	0.00	632.6	1.00	
5	BRICKS (476 bricks per Cum)	60.00	2018.50	0.00	958.8	1.00	
6	HARD MURUM/Soft Murum	15.00	340.89	0.00	340.89	1.00	
7	Royalty	0					
8	Cement	60	626.75	0.00	626.75	0.00	
9	Steel	60	626.75	0.00	626.75	0.00	
		QTY	RATE	AMOUNT	Artificial	Amount	
1	C.C. M-10 for foundation & bedding	SAND 0.47	660.06	310.23	660.06	310.23	
		METAL 0.94	660.06	620.46	660.1	620.46	
				930.68		930.68	
2	P & C U.C. Masonary	SAND 0.4	660.06	264.02	660.1	264.024	
		RUBBLE 1.25	632.55	790.70	632.6	790.7	
		Cement 1.78	0.00	0.00		1054.724	
				1054.72			
3	P & C B.B. masonry in plinth & S.S	SAND 0.32	660.06	211.22	660.1	211.2192	
		BRICKS 0.475	958.79	455.42	958.79	455.4241	
				666.64		666.64	
4	P & L R.C.C. (M-20) M-20	SAND 0.425	660.06	280.53	660.06	280.53	
		METAL 0.85	660.06	561.05	660.06	561.05	
				841.58		841.58	
4-A	P & L R.C.C. M-15	SAND 0.44	660.06	290.43	660.06	290.43	
		METAL 0.88	660.06	580.85	660.06	580.85	
				871.28		871.28	
5	P & A. 25mm tk plaster	SAND 0.024	660.06	15.84	15.84		
		METAL 0.22	660.06	145.21	151.05	percentage required to be added will be percentage	0.00%
				15.84	15.84	BLDG.WORKS	0.00%
6	P & A. 20mm tk plaster	SAND 0.024	660.06	15.84	15.84		
		SAND 0.024	660.06	15.84	15.84	SERVICE CHARGES.	0.00%
				15.84	15.84	Labour case	0.00%
7	P & F polished shahabad for sills & dado	sand 0.036	660.06	23.76	23.76	TOTAL:	0.00
8	P & C half brick wall 120 bricks per cum	bricks 1	958.79	958.79	958.79		
				992.55			

**RUPALISHIV FARMER PRODUCER CO. LTD.**  
GAT NO 246, DONGAON(BK), TAL-BILOLI, DIST-NANDED.

S.N.	SUB WORK :- CONST. OF 600 MT WH BLDG. DESCRIPTION OF ITEM	QTY.	UNIT	I.H./P.N	BASIC RATE	LEAD CHARGES SAND HIM	METAL BRICKS	IS & R.A.	TOTAL	ADD % CHARGES 0.000	TOTAL OF RATES 6 TO 11	ADD % FOR CHARGES 12 TO 14	TOTAL OF RATES 6 TO 14	AMOUNT
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 and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shooting and strutting etc. complete. (Lift upto 1.5 m.) By Mechanical Means	71.00	Cum	21.02/115	193.00				193.00	0.00	193.00	0.00	193.00	13763
2	Excavation for foundation in earth, soils of all types, sand, gravel and soft murum, including removing the excavated material upto a distance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shooting and strutting etc. complete. (Lift from 1.5m to 3.0m) By Mechanical Means	0.50	Cum	21.04/115	241.00				241.00	0.00	241.00	0.00	241.00	121
3	Excavation for foundation in hard murum including removing the excavated material upto distance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shooting and strutting etc. complete. (Lift upto 1.50 m) By Mechanical Means	29.00	Cum	21.06/143	212.00				212.00	0.00	212.00	0.00	212.00	6143
4	Excavation for foundation in Hard murum including removing the excavated material upto a distance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shooting and strutting etc. complete. (Lift from 1.5 to 3.0m.) By Mechanical Means	0.50	Cum	21.08/115	265.00				265.00	0.00	265.00	0.00	265.00	133
5	Excavation for foundation in hard murum and boulders including removing the excavated material up to a distance 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shooting and strutting etc. complete. (Lift upto 1.5m.) By Mechanical Mean	19.00	Cum	21.10/115	235.00				235.00	0.00	235.00	0.00	235.00	4455
6	Excavation for foundation in Hard murum and boulders including removing the excavated material upto a distance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shooting and strutting etc. complete. (Lift from 1.5 m to 3.0 m.) By Mechanical Means	0.50	Cum	21.12/115	281.00				281.00	0.00	281.00	0.00	281.00	145

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7	Excavation for roadway in earth, soil of all sorts, sand, gravel or soft murrum including dressing section to the required grade, camber and side slopes and conveying the excavated materials with all lifts upto a lead of 50m, and spreading for embankment or stacking as directed.	32.00	Cum	2.11/23	104.00				104.00	104.00	0.00	104.00	3328
8	Excavation for roadway in hard murrum and boulder including dressing section to the required grade, camber and side slopes and conveying the excavated materials with all lifts upto a lead of 50m, and spreading for embankment or stacking as directed.	1.00	Cum	2.13/23	121.00				121.00	121.00	0.00	121.00	121
9	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 micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	39.00	Cum	24.01/129	5538	930.68	-120.00		5348.68	5348.68	0.00	5348.68	247553
10	Providing uncoated rubble masonry of trap / granite / quartzite / gneiss stones in cement mortar 1:6 in foundation and plinth of inner walls / in plinth of external walls including bailing out water manually, striking, joints on un exposed faces and watering etc. complete	0.50	cu m	28.01/146	4757				4757.00	4757.00	0.00	4757.00	2379
11	Providing second class Burnt Brick masonry with conventional / I.S. Type bricks in cement mortar 1:6 in foundations and plinth of inner walls / in plinth external walls including bailing out water manually, striking joints on unexposed faces, rubbing out joints on exposed	24.00	Cum	27.01/144	7343	0.00			7343.00	7343.00	0.00	7343.00	176252
12	Providing & laying 35 cms wide single layer tarfelt by applying initial coat of shalibond @ 1kg/sqm fixing in place by wire nails for D.P.C. at plinth as directed by Engineer in charge.	24.00	Sqm	R.A.	349.25				349.25	349.25	0.00	349.25	8382
13	Providing and fixing in position TMT - F8 - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newells, chajjas, lintels, par-ja, 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..	6.40	MT	26.33/139	71778.00				71778.00	71778.00	0.00	71778.00	463850
14	Providing and laying in situ /Ready Mix cement concrete M-20 of trap / granite / quartzite / gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, Steel centering formwork, laying/pumping cover blocks, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, with fully automatic micro processor based PLC with out	14.00	Cum	25.11/133	6668.00	841.53	-120.00		7387.53	7387.53	0.00	7387.53	182640

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15	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite / quartzite / gneiss metal for R.C.C. columns as per detailed design 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	19.00	Cum	25.31/134	12987.00	841.58	-120.00	13708.58	13708.58	0.00	13708.58	360464
16	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite / quartzite / gneiss metal for R.C.C. beams and lintels as per detailed design 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	29.00	Cum	25.50/135	11483.00	841.58	-120.00	12204.58	12204.58	0.00	12204.58	353933
17	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite / quartzite / gneiss metal for R.C.C. chajja as per detailed design and drawings including steel centering, formwork, cover blocks, laying/pumping, compacting and roughening the surface if special finish is to be provided and curing 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.	1.00	Cum	26.05/137	13111.00	841.58	-120.00	13832.58	13832.58	0.00	13832.58	13833
18	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite / quartzite / gneiss metal for R.C.C. slabs and landings as per detailed design and drawings 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. With fine aggregate (Crushed sand VSI Grade)	1.00	Cum	26.70/135	13943.00	841.58	-120.00	14664.58	14664.58	0.00	14664.58	14665
19	Providing second class Burnt Brick masonry with conventional / I.S. type brick since ment mortar 1:6 in superstructure including striking joints, raking out joints, watering and scaffolding etc. Complete	68.00	Cum	27.05/144	7570.00	0.00		7570.00	7570.00	0.00	7570.00	514760
20	Providing and laying Cast in situ/Ready Mix cement concrete M-15 of trap / granite / quartzite / gneiss metal for coping to plinth or parapet, moulded or chamfered as per drawing or as directed including steel centering, plywood / steel formwork compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by	1.00	Cum	24.16/132	6030.00	871.28	-120.00	6781.28	6781.28	0.00	6781.28	6782
21	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 Kilogram per cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8 mm thick in cement mortar 1:4 finishing the surface by taldng out grains and curing for fourteen days scaffolding etc. complete.	559.00	Sqm	32.11/153	599.00	15.84		614.84	614.84	0.00	614.84	343556

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22	Providing internal cement plaster 12 mm thick in Single coats in cement mortar 1:4 without neeru finish, to concrete, brick surface, in all positions including scaffolding and curing etc. complete.	430.00	Sqm	32.04/153	264.00	15.84	279.84	279.84	0.00	279.84	120332
23	Providing internal cement plaster 20mm thick in Single coats in cement mortar 1:4 with neeru finish, to concrete, brick surface, in all positions including scaffolding and curing etc. complete.	76.00	Sqm	32.04/153 /32.21/154	332.00	15.84	347.84	347.84	0.00	347.84	26436
24	Providing and applying three coats of water proof cement paint of approved manufacture and of approved colour to new plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete.	404.00	Sqm	35.15/165	97.00		97.00	97.00	0.00	97.00	39188
25	Providing and applying two coats of exterior acrylic emulsion paint conforming to corresponding I.S. of approved manufacture and of approved colour to the plastered surfaces including cleaning, preparing the plaster surface, applying primer coat, scaffolding if necessary, and watering the surface for two days etc. complete.	439.00	Sqm	35.25/165	240.00		240.00	240.00	0.00	240.00	105380
26	Providing and applying two coats (exterior quality) of flat oil paint of approved colour and shade to the plastered surface in buildings and workshops, including scaffolding if necessary, cleaning the surface and preparing surface etc. complete. (excluding primer coat)	80.00	Sqm	35.11/164	83.00		83.00	83.00	0.00	83.00	6640
27	Providing and fixing rolling shutter fabricated from steel flats of minimum thickness 0.9 mm with lock plate of 3.15 mm thickness reinforced with 35 x 35 x 5 mm angle section fitted with sliding bolts and handles for both sides, deep M.S. channel section of depth and thickness not less than 65 mm and 3.15 mm respectively with hold fast arrangements, M.S. Bracket plate 200 x 200 x 3.15 mm, minimum size and shape with square bar, suspension shaft of minimum 32 mm diameter, hood cover of M.S. sheet not less than 0.9 mm thickness and of any size at top and safety devices	11.00	Sqm	39.24/181	4310.00		4310.00	4310.00	0.00	4310.00	47410
28	Providing and fixing mild steel grill work for windows, ventilator etc. 20 Kilogram/Square Metre as per drawing including fixtures, necessary welding and painting with one coat of anticorrosive paint and two coats of oil painting complete.	15.00	Sqm	40.01/192	1845.00		1845.00	1845.00	0.00	1845.00	27675
29	Providing structural steel work in trusses, other similar trussed girders 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 anticorrosive paint and over it 2 coats of oil painting approved quality and shade etc. complete.	846	M T	23.04/129	105909.00		105909.00	105909.00	0.00	105909.00	895819
30	Providing and fixing colour coated Zincalume (R) AZ150 (min 150 gms/sq. mt. total on each side) profiled sheets for roofing. The feed material is manufactured out of nominal 0.45 mm Base Metal Thickness (HMT) (0.5 mm TCT), Hi-strength steel with min. 550 MPa yield strength, metallic hot dip coated with Aluminium/Zinc alloy (55% aluminium 43.4% zinc 1.6% silicon) with COLORBOND (	377.00	Sqm	38.34/173	1095.00		1095.00	1095.00	0.00	1095.00	413815

31	Providing and fixing of colour Zincalume [R] AZ150 (Mini) 50gms/Sq.mt. total on each side) profiled sheets for bridges. The feed material is manufactured out of nominal 0.45mm base Metal Thickness (BMT) (0.5mmTCT), HI-strength steel with min 550 MPa yield strength, metallic hot dip coated with Alumin-Zinc alloy 55% aluminium 43.4 % zinc 1.6 % silicon with COLORBOND [R]-steel quality super-durable polyester paint coat (with inorganic pigment). The paint shall have a total coating thickness of 100 microns.	22.10	Rum	38.35/174	702.00					702.00	0.00	702.00	15515
32	Providing and fixing wind opposed type S. S. ventilator system (24 inch dia.) over existing roof including cutting of sheet, fixing in position to true line & level with all fixtures & fastenings, providing 0.8mm thick FRP sheet for covering area between roof and fan so as to provide waterproof joints with approved waterproofing compound making good the roof surface including cleaning etc. complete (General application for all types of roofs for ventilation & day light purpose at terrace (As directed by Engineer in Charge).	10.00	Nos	42/374	8680.00					8680.00	0.00	8680.00	86800
33	Providing & constructing parapet coping of size 35 x 35 cm in cement mortar 1:4 with conical top and side drops and rounded finish at A.C. sheet joints including finishing the whole with 20 mm thick cement plaster 1:4 with cement finish, 1.	33.40	RMT	RA	1179.00					1179.00	0.00	1179.00	39379
34	Filling in plinth with approved excavated stuff obtained from departmental land including watering, compacting etc. complete as directed. (Bd. A.10/262)	96.00	Cum	21.36/117	113.00					113.00	0.00	113.00	10848
35	Providing Hard Murrum cohesive non-swelling materials in plinth in layers of 20 cms etc. complete as directed. (Only compacted thickness is payable) [Rd.23/202 & Rd.28/205].	178.00	Cum	RA	628.69					628.69	0.00	628.69	111907
36	Compacting the Hard Murrum, cohesive non swelling materials in plinth upto 200 mm loose with power roller 8 to 10 tonne capacity including artificial watering etc. complete as directed. [Rd.38/210]	890.00	Sqm	2.31/24	19.00					19.00	0.00	19.00	16910
37	Providing & laying stone metal layer of 20 cm thickness with 60 mm over size metal 65% and 40 mm size metal 35% with solid or stone chips spreading & leveling handpacking complete. [Rd.22/201, Rd.20/200 & Rd.20/205]	132.00	Cum	RA	1597.23					1597.23	0.00	1597.23	210835
38	Compacting oversize & size metal layers combinably with power roller not less than 8 tonnes including artificial watering & leveling etc. complete as directed (Rd.35/208)	594.00	Sqm	MIR	20.00					20.00	0.00	20.00	11880
39	Providing and laying in situ cement concrete M20 with tremie treatment for 100 mm thickness for flooring with groove cutting of 4mm wide and 20mm deep with necessary relling with bitumen and including vacuum dewatering etc. complete.	318.00	Sqm	33.30/158	748.00					748.00	0.00	748.00	237238
40	Providing treatment of TREMIX vacuum dewatering over polished cement concrete 1:2:4 surface including fixing of M.S. Channel formwork as per required size and placing of dowel rod, vibrating the concrete by needle vibrator and leveling by	1.00	Sqm	RA	80.00					80.00	0.00	80.00	80

41	Providing & fixing ISMC 150 with weight dia & 0.50 m long bolts & nuts @ 1.00 m c/c. M.S. angles for stands of fire bucket including chain fixing in wall applying three coats of polyamine etc. compl	0.82	MT	23.01/29	59181.00	59181.00	59181.00	59181.00	45520E
42	Providing & Fixing in position M.S. ladder of 45 cms width made out 50 x 50 x 6 mm two angles for rails and M.S. angle stiffeners at three places as directed with M.S. round bars of 20 mm dia for steps @ every 30 cm c/c including fixing	10.00	RMT	RA	805.80	805.80	805.80	80580	
43	Providing and fixing lightning conductor system comprising of erecting Air-Termination consisting of tubular copper rod of 25 mm dia, 1.2 mm thick with multiple point ahead 1.2m long (Heavy Duty) welder clamped to G.I. pipe pole Egrade 50 mm dia of required length with M.S. round base plate 25 cms and 10mm thick at bottom embedded in cement concrete 1:3:6 of foundation of size 45 cms diam x 45cm height and providing earthing with copper earth plate of size 600x600.3cms with each lump at ed nut bolt set fire arthing strip buried in specially prepared earth plate 1.5metre below ground level with 40 Kilogram charcoal and salt with alternate layers of charcoal and salt and 0.3 pipe 40 mm diameter length buried near the up to earthing plate remaining portion above ground level for watering and refilling as per Note-Copper strip from lightning conductor is not considered in this item.	1.00	Not	44.18/214	22189.00	22189.00	22189.00	22189	
44	Conveying the materials obtained from excavation including all lifts, laying in layers, breaking clods, dressing to the required lines, curves, grades and section for a lead over 50m to 300m from the site of excavation to the site of dep	15.00	Cum	2.26/24	177.00	177.00	177.00	2655	
45	Conveying the materials obtained from excavation including laying in layers, breaking clods, dressing to the required lines, curves, grades and section for all leads & lifts from the site of excavation to the site of deposition away from building as directed engineer in charge.	40.00	Cum	5 KM lead stat.	220.45	220.45	220.45	8874	
46	Providing pre-constructural Anti-termite treatment as per I.S. 6313 (Part-II) - 1973 by treating the top surface of plinth filling at the rate of 5 litres of emulsion concentrate of 0.5 percent of Hephoclore per square meter of surface	325.00	sq m	21.24/117	94.00	94.00	94.00	30550	
47	Providing and fixing in position powder coated aluminium louvered windows / ventilator of various sizes with powder coating as per detailed drawing and specifications including aluminium frames 80 x 38 mm x 1.22 mm box type, 5 mm thick sheet glass louvers, of approved quality etc. complete.	14.81	sq m	38.68/188	3107.00	3107.00	3107.00	45354	
<b>TOTAL FOR W.H.BLDG</b>						<b>TOTAL</b>	<b>RS</b>	<b>5120038</b>	

KUSHAGRA HAWGEER KENGNE  
BL/CVLL PG-PROJECT MANAGEMENT  
ENGINEER & CONTRACTOR  
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