

## CERIFICATE

This is to certify that under State of Maharashtra Agribusiness And Rural Transformation (SMART) Project, for the Client, ARUSHAGRO FARMER PRODUCER COMPANY LTD, Survey No.216/A, Gat No. 3450, Village Tandulwadi, Taq. Washi, Dist. Osmanabad, Proposed Construction of Dal Mill Civil Construction works and Estimate as mentioned below amounting to Rs.135,25,586/-, based on SSR 22-23, PWD, Govt. of M.S. has been prepared and technically sanctioned by me (Rs. One Hundred Thirty-Five Lakh, Twenty Five Thousand, Five Hundred Eighty-Six only).

SR.NO.	PARTICULARS	ESTIMATED AMOUNT IN RS.
1	PROPOSED CONSTRUCTION OF DAL MILL BUILDING 550 SQ.M. AREA WITH MACHINE SHED, CLEANING & GRADING UNIT, PACKING UNITS FOR FINISHED DAL & BESAN WITH ANCILARI WORKS.	135,25,586/-
	TOTAL AMOUNT IN RS.	135,25.586/-

Pune-51

Date: -- 02-01-2023

SUBHASH DEVIDAS PATHAK  
CHARTERED ENGINEER (I)  
M-101120-5

*S.D. Pathak*  
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Chartered Engineer (I)  
M - 101120 - 5

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PROPOSED CONSTRUCTION OF DAL MILL--MACHINERY SHED, CLEANING AND GRADING UNIT, PACKAGING FOR ,  
 FINISHED DAL AND BESAN, ANCILLARY WORKS AT SURVEY NO. 216/A AND GAT NO.3450,  
 VILLAGE TANDULWADI, TQ. WASHI, DIST. OSMANABAD  
 NAME OF COMPANY:-- ARUSHAGRO FARMER PRODUCER COMPANY LTD.

**RECAPITULATION SHEET**

SR.NO.	PARTICULARS OF SUBWORK	CAPACITY IN SQ.M	UNIT	AMOUNT IN RS.	COST IN RS. PER SQ.M
1	Proposed construction of Dal Mill- Machinery Shed, Cleaning and Grading Unit, Packaging for finished Dal and Basan unit shed	550	SQ.M.	9700639	17638
2	Internal Service Roads			503542	
3	Compound Wall			733682	
4	Electrification @RS.100/M.T.			97006	
5	Royalty Charges			286720	
6	Testing Charges			44450	
	<b>TOTAL</b>		<b>RS</b>	<b>11366039</b>	
7	ADD 18% GST			2045887	
8	ADD 1% LABOUR INSURANCE			113660	
	<b>TOTAL</b>		<b>RS.</b>	<b>13525586</b>	
9	<b>GRAND TOTAL</b>		<b>SAY RS/SQ.M.</b>	<b>13,525,586</b>	<b>24592</b>

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FINISHED DAL AND BESAN, ANCILLARY WORKS AT SURVEY NO. 216/A AND GAT NO.3450,  
VILLAGE TANDULWADI, TQ. WASHI, DIST. OSMANABAD  
NAME OF COMPANY:-- ARUSHAGRO FARMER PRODUCER COMPANY LTD.

**ABSTRACT OF MEASUREMENT**

SR.NO.	DESCRIPTION OF ITEM	UNIT	QUANTITY	RATE	AMOUNT	REMARK, Standard Specification Reference.
1	Excavation in soil plus soft murum with all leads and lifts, with backfilling the trenches and dewatering complete.(Mannually)	CU.M.	80	232	18560	BDA-1/Page No. 259
2	Excavation in Hard murum with all leads, lifts including backfilling the trenches and dewatering complete.	CU.M.	126	354	44604	BDA-1/Page No. 259
3	Excavation in Hard murum and boulders with all leads and lifts including backfilling the trenches and dewatering complete.( Mechanical means)	CU.M.	1	235	235	BDA-1/Page No. 259
4	Excavation in Soft Rock with all leads and lifts, backfilling the trenches and dewatering complete.(Mechanical means)	CU.M.	1	291	291	BDA-1/Page No. 259
5	Excavation in Hard Rock with pneumatic breaker, all leads and lifts, backfilling the trenches and dewatering complete.(Mechanical means)	CU.M.	1	1051	1051	BDA-1/Page No. 259
6	providing anti-termite treatment to trenches with 5 liters per Sq.M. area by 1liter Chlorophyrifos plus+19 liters of water i.e. 20% Emulsionas, per specifications and dose directed by Engineer-in- Charge, complete.					As directed by Engineer-in-Charge.
A	Bottom surface of trench	SQ.M.	89	92	8188	
B	Backfilling of Trenches	SQ.M.	74	97	7178	
C	Plinth and Apron	SQ.M.	639	94	60066	
7	Providing ,laying, PCC M-10 Grade, including formwork, compaction , curing with all leads and lifts complete as per specifications.	CU.M.	74	5987.12	443046.88	BDE-1/P/287
8	Providing RCC 1:1.5:3 for footing including, formwork, compaction by virato., curing etc. with all leads and lifts , testing, complete as per specifications.	CU.M.	11	7249.64	79746.04	R.A. Attached/BDF-3/P/298 &B-7/P/38
9	Providing RCC 1:1.5:3 for Column in Substructure including, formwork, compaction by virator, curing, testing etc. with all leads and lifts , complete as per specifications.	CU.M.	36	13928.64	501431.04	R.A. Attached/BDF-5/P/300 &B-7/P/38
10	Providing RCC 1:1.5:3 for Beam in Substructure including, formwork, compaction by virator, curing , testing etc. with all leads and lifts , complete as per specifications.	CU.M.	16.7	12414.64	207324.488	R.A. Attached/BDF-5/P/300 &B-7/P/38

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11	Providing RCC 1:1.5:3 for Beam in Superstructure including, formwork, compaction by vibrator, curing, testing etc. with all leads and lifts , complete as per specifications.	CU.M.	12.99	12414.64	161266.1736	R A Attached/BDF-5/P/300 & B-7/P/38
12	Providing UCR Stone in Cement Mortar 1:6 in Substructure with scaffolding, curing , testing all teads and lift complete as per specifications.	CU.M.	100.47	5198.31	522274.2057	R.A. Attached/BDG-1/P/313
13	Providing BBM in Cement Mortar 1:6 in Superstructure with scaffolding, curing , testing all teads and lift complete as per specifications.	CU.M.	85.33	8490.39	724484.9787	R A Attached/BDG-5/P/315
14	Cement Praster 12 mm thick in single coat in Cement Mortar 1:5 to inside of walls with scaffolding ,curing complete as per specifications.	SQ.M.	695	272.73	189547.35	R A Attached/BDL-2A/P/368
15	Waterproof sand faced Cement Plaster externally in C.M.1:4 using approved screened sand in all positions including base coat Of 15 mm thick,in C.M. 1:4,using Waterproof Compound at 1 kg per cement bag, curing the same for not less than two days and keeping the surface of the base coat rough to receive sand face treatment 6 to 8 mm thick in C.M.1:4 finishing the surface by taking out grains and curing for 14 days scaffolding etc complete.	SQ.M.	494	642.86	317572.84	RA Attached
16	Providing white lime wash in two coats to internal wall of Machine Shed, Cleaning & Grading Unit, Packing Units, scaffolding etc complete as per specifications.	SQ.M.	695	12	8340	SSR 22-23/36.03/BDP-1
17	Providing Colour wash in two coats to External wall of Machine Shed, Cleaning & Grading Unit, Packing Units, , scaffolding etc, complete as per specifications.	SQ.M.	494	19	9386	SSR22-23/36.05/BDP 2A
18	Providing Steel Ventilators as per drawing , scaffolding etc complete as per specifications.	SQ.M.	3.6	2097.4	7550.64	R.A.A ttached/SSR 22-23/40.01/BDU-1
19	Providing Mild Steel Rolling Shutters as per drawing , scaffolding etc complete as per specifications(Mecanical Gear Operated).	SQ.M.	184.8336	5308	981096.7488	SSR 22-23/39.25/BDT-55
20	Providing Synthetic Enamel painting in three Coats to Steel Ventilators and Rolling Shutters.	SQ.M.	480.468	96	46124.928	SSR 22-2335.07/BDU-5
21	Providing hard murum in plinth with approved material obtained from contractors source with all leads and lifts , laying layers of 20 to 30 cm; breaking clods to the required lines, grades, and curves and section,watering compaction not less than 97% of Standard Proctor Density etc. complete	CU.M.	269	801.06	215485.14	SSF-25/383 & R.A. Attached
22	Providing ,laying PCC M 15 on top of Apron compaction, curing , testing complete as per specifications.	CU.M.	0	6509.39	0	BDE-2/P/288 & R.A. Attached
23	Providing Size metal layer , complete as per specifications and as directed by Engineer-in-Charge..	CU.M.	0	1804	0	3.04/MORTH 401
24	Providing and spreadingsort murum binding over apron and size metal layer in plinth, watering, compaction by plate vibrator/ 10 T Roller, complete as per specifications	CU.M.	13	664	8632	SSR/2.29 b & 2.30 & 2.31, Road sub grade/p/28.

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25	Providing watering, compaction by plate vibrator over apron size metal layer complete as per specifications.	SQ.M.	0	50	0	M.R.
26	Providing Cement plaster 12 mm thick in single coat in cement mortar 1:4 without neeru finish to concrete or brick surface in all positions, including curing, scaffolding complete as per specifications and as directed by Engineer-in-Charge.	SQ.M.	122	272.73	33273.06	BDL2/P/368 & R.A.Attached
27	Providing fine cement finish 1.50 mm thick over green plaster surface including scaffolding curing etc, complete	SQ.M.	122	72	8784	SSR/32.21/BDL/P/258 As directed by Engineer-in-Charge.
28	Providing Compacted 150 mm thick 65% Oversize plus 35% Size metal layer in the plinth of Machine Shed, Cleaning & Grading Unit, Packing Units, building, spreading, watering, compaction by 10 T roller, including soft murum as blindage complete as per specifications	CU.M.	91	1302	118482	AS per R.A.
29	Providing PCC 1:1.5:3, 150 mm thick Trimix Concrete layer in the plinth floor of Warehouse building, M.S. Channel form work, skid vibrator, vacuum dewatering, travelling with machine, rough finish, groove cutting for construction and expansion joint filling the groove with Thermocol and polysulphide sealant, arranging 3 phase electric supply for the work, complete as per specifications and as directed.	CU.M.	91	7510.98	683499.18	BDE-2/P/288 & R.A. Attached
30	Providing and fixing M.S. Sill Angle of size 50x50 6mm at Rolling Shutter Door including hold fast, line level complete as per specifications.	M.T.	0.24	97782.58	23468	BDC2/P/275 & R.A. Attached
31	M.S. TMT Fe-500 Grade Bar Reinforcement conforming to IS:226 and IS:2062, including cutting, bending, binding with M.S. G.I. wires, placing in position, testing complete as per specifications and as directed.	M.T.	6.59	89726.58	591298	BDF-17/P/306 & R.A.Attached
32	Providing mild steel in ROSSLES, other similar trussed purlins, members with all bracings, gusset plates conforming to IS:226 and IS:2062, nuts and bolts with fabrication, erection, scaffolding, Cleaning, applying, Red Oxide primer one coat and oil painting in two coats, testing, with all leads and lifts complete as per specifications and as directed.	M.T.	17	97782.58	1662304	BDC-2/P/275 & R.A.Attached
33	0.9 m high and three rows S.S Railing of 304 grade complete as per specifications and as directed.	RM.	4	4004	16016	BDW & As directed by ENC.
34	Providing, ISMC 150X75 MM, fabricating, fixing in position with holdfast, one coat of red oxide primer and two coats of oil paint, etc complete as per specification complete as directed.	M.T.	0.47	97782.58	45957.8126	BDC2/P/275 & R.A.Attached
35	Providing Country Cut Teak wood frame of 125x65 mm size frame with/ without ventilator of size specified for doors including champhering, rounding rebating, fixing iron holdfast of size 300x40x5 mm, one coat of primer and two coats of oil paint, complete as per specification and as directed by Engineer-in-Charge.	CU.M.	0	200050		SSR39.01/BDT/P/303

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36	Providing and fixing solid core flush door shutter in single leaf 32 mm thick without ventilators, commercial type of exterior grade as per detailed drawing, with wrought iron holdfast, stainless steel fixtures and fastenings, one coat of primer and two coats of oil paint, complete as directed	SQ.M.	0	2913		SSR 39.1/BDT-36/P/304
37	Providing and fixing in position (as per IS:1868/1988), the sliding window of two track with rectangular pipe having overall dimension 63.50x 38.1x1.02 mm at weight 0.547 Kg/R.M. and window frame track section 40x18x1.25 mm at weight 0.417 Kg/ R.M. as per detailed drawing and as directed by Engineer-in-Charge with all necessary fixtures and fastenings such as roller bearings in nylon casing and self locking catch fitted in vertical section of shutter including 5 mm thick plain glass with all required screws and nuts etc, complete.	SQ.M.	0	5479		SSR 39.37/BDT/P/310
38	Providing and laying RCC Chajja in cement concrete 1:1.5:3 for fins and padies, including formwork, vibration, curing, testing complete as per specifications and as directed.	CU.M.	0.96	17601	16896.96	SSR 26.31/BDF-16/P/232/IS:456(2004)
39	Providing, fabricating, fixing in position M.S. Ladder as per drawing and design, one coat of red oxide primer and two coats of oil paint complete as per specifications and as directed by the Engineer-in-Charge.	M.T.	0.84	97782.58	82137.3672	BDC2/P/275 & R.A.Attached
40	Providing and fixing in position 11.35 M height lightning arrester as per drawing, design, specification complete as directed by Engineer-in-Charge.	Number	1	8000	8000	M.R.
41	Providing and fixing of colour coated Zinaluminium (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 (BMT) (0.5 mm TCT), High-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 (R) steel quality super durable polyester paint coat (with inorganic pigment). The paint shall have a total coating thickness of nominal 35 mm, comprising of nominal 25mm exterior coat on top surface and nominal 10 um 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 pan at nominal 180-250 mm center-to-center. The end rib shall be designed for anti-capacity groove. and return leg. The feed material should have coil manufacturers product details marked at regular interval, including fasteners with min. fastened with min. 25 um Zinc-Tin alloy coated, Hex head, self-drilling screw etc. complete. (weight of profile 4.52 Kilogram/ One Square Metre) 600 mm girth (Surface Width).	SQ.M.	1572.88	1113.27	1751040.118	
42	Providing and fixing in position 000 mm diameter Turboventilators	Number	12	8000	96000	
		Total			9700638.95	
		TOTAL			9700639	

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 FINISHED DAL AND BESAN, ANCILLARY WORKS AT SURVEY NO. 216/A AND GAT NO.3450,  
 VILLAGE TANDULWADI, TQ. WASHI, DIST. OSMANABAD  
 NAME OF COMPANY:-- ARUSHAGRO FARMER PRODUCER COMPANY LTD.

**RATE ANALYSIS SHEET FOR PROPOSED ABOVE STRUCTURES.**

**LEAD OF MATERIALS**

SR.NO	PARTICULARS	LEAD IN KM.	UNIT	ACTUAL CHARGES	PAY LOAD FACTOR	LEAD CHARGES PER
1	SAND	30	CU.M.	619.56	5.75	107.75
2	CRUSHED METAL UTO 40 MM	30	CU.M.	619.56	5.75	107.75
3	CRUSHED METAL ABOVE 40 MM	30	CU.M.	593.74	6	98.96
4	RUBBLE	15	CU.M.	502.27	4.7	106.87
5	BRICKS	30	NO.	1428.44	3.105	460.05
6	HARD MUR	2	CU.M.	203.32	6	33.89
7	CEMENT	10	M.T.	235.34	10	23.53
8	STEEL	10	M.T.	235.34	10	23.53
9	ZINCALUM COLOUR COATED SHEETS	60	M.T.	712.96	10	71.3

**SSR 2022-23 RATE WITH LEAD CHATGES STATEMENT**

SR.NO OF ESTIMATE ITEM	DESCRIPTI ON OF ITEM	MATERIAL REQD	MATERIAL REQD.PER	LEAD CHARGES PER CU.M.	TOTAL LEAD CHARGES	TOTAL MATERIAL LEAD CHARGES	BASIC RATE AS PER SSR 22-23	TOTAL RATE IN RS.	SSR ITEM NO.
7	PCC Bed concrete M-10	Sand	0.47	107.75	50.64				
		Metal	0.94	107.75	101.29				
		Cement	4.4	1.18	5.19				
					157.12	157.12	5830	5987.12	24.01/BDE-1
8	RCC Footing in CC M-20	Sand	0.425	107.75	45.79				
		Metal	0.85	107.75	91.59				

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		Cement	7	1.18	8.26				
						145.64	145.64	7104	7249.64
									25.11/BDF-3
9	RCC Column in CC M-20	Sand	0.425	107.75	45.79				
		Metal	0.85	107.75	91.59				
		Cement	7	1.18	8.26				
						145.64	145.64	13783	13928.64
									25.33/BDF-5
10&11	RCC Beam & Lintel in CC M-20	Sand	0.425	107.75	45.79				
		Metal	0.85	107.75	91.59				
		Cement	7	1.18	8.26				
						145.64	145.64	12269	12414.64
									25.50/BDF-6
12	UCR Masonry in C.M.(1:6) in substructure	Sand	0.35	107.75	37.71				
		Rubble	1.25	106.87	133.59				
		Cement	1.7	1.18	2.01				
						173.31	173.31	5025	5198.31
									28.01/BDH-1
13	BBM in Superstructure in C.M.(1:6)	Sand	0.32	107.75	34.48				
		Burnt Bricks	1	460.05	460.05				
		Cement	1.58	1.18	1.86				
						496.39	496.39	7994	8490.39
									27.06/BDG-7

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	Cement plaster 12 mm thick in C.M.1:5, in single coat without neeru finish.								
14		Sand	0.015	107.75	1.62				
		Cement	0.09	1.18	0.11				
					1.73	1.73	271	272.73	32.03/BDL2
	Sand faced Cement Plaster in two coats to external surface								
15		Sand	0.033	107.75	3.56				
		Cement	0.25	1.18	0.3				
					3.86	3.86	639	642.86	32.11/BDL-7
	M.S.Ventilators 20 kg per square meter.								
18		M.S Bars	20	0.02	0.4	0.4	2097	2097.4	40.01/BDU-1
	H.M. filling in Plinth								
21		Hard Murum	1.3	33.89	44.057				
					44.057	44.06	757	801.06	2.28/MORT H 305/P/28
	PCC M-15 f								
22		Sand	0.44	107.75	47.41				
		Metal	0.89	107.75	95.9				
		Cement	6	1.18	7.08				
					150.39	150.39	6359	6509.39	24.04/BDE-2

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	PCC M-20 for Trimix concrete								
29	Flooring	Sand	0.425	107.75	45.79				
		Metal	0.89	107.75	95.9				
		Cement	7	1.18	8.26				
					149.95	149.95			
	Add for Vacumme Dewaterin g machinry and Labour charges								
	Cement co	790.416	SQ.m	100	79041.6				
	Grove cutting and Filling with Polysulfid e sealant	790.416	SQ.m	30	23712.48				
					102754.1				
	Volume of concrete	160.5456							
	Cost of vacumme dewaterin g and groove cutting and filling per Cum	640.03				640.03			

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										SSR 24.06/BDE- 2+ As directed By Engineer-in- Charge for Vacumme Dewatering Process with Groove cutting and filling.
						789.98	6721	7510.98		
30	M.S, Sill an	M.S. Angle	1.002	23.53	23.58	23.58	97759	97782.58		SSR23.02/B DC-3/P/212
31	M.S.TMT Fe-500 Bar reinforce ment.	M.S. Angle	1.002	23.53	23.58	23.58	89703	89726.58		SSR26.33/B DF- 17/P/233
42	0.5 mm thk. Zinkalumi nium sheet roofing									
	3.925	Zinkalume Sheet	0.003848	71.3	0.27	0.27	1113	1113.27		SSR 38.34/BDR/ P/292
11	Slab & Mid landing (!:1.5:3)									
		Sand	0.47	107.75	50.6425					
		Metal	0.94	107.75	101.285					
		Cement	7	1.18	8.26					
					160.1875	160.1875	13943	14103.1875		SSR25.7/P- 226
42	Staircase Waist Slab & Steps (!:1.5:3)									
		Sand	0.47	107.75	50.6425					
		Metal	0.94	107.75	101.285					
		Cement	7	1.18	8.26					
					160.1875	160.1875	13360	13520.1875		SSR26.26/P- 230

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INTERNAL SERVICE ROADS									
3	Supplying Oversize Metal		1.05	98.96	103.91	103.91	885	988.91	RS. 885/- PER CU.M. IS SUPPLY MARKRT RATE
4	Supplying Size Metal		1.05	107.75	113.14	113.14	885	998.14	RS. 885/- PER CU.M. IS SUPPLY MARKRT RATE
5	Supplying Soft Murum		1.05	33.89	35.58	35.58	585	620.58	SSR 2.29b /P/28
COMPOUND WALL									
1	M.S Tubula	SQ.M.	0.03675	23.53	0.864728	0.86	7257	7257.86	SSR 23.05/BDR/ P/213
	Wt of Gate in M.T.								
	0.035								

  
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 FINISHED DAL AND BESAN, ANCILLARY WORKS AT SURVEY NO. 216/A AND GAT NO.3450,  
 VILLAGE TANDULWADI, TQ. WASHI, DIST. OSMANABAD  
 NAME OF COMPANY:-- ARUSHAGRO FARMER PRODUCER COMPANY LTD.

**MEASUREMENT FOR PROPOSED MACHINERY SHED.**

SR.NO.	DESCRIPTION OF ITEM	NO.	LENGTH	BREADTH	HEIGHT	QUANTITY	TOTAL QTY	UNIT
1	Excavation in soil plus sort murum							
	C1 Column	6	1.5	1.5	0.3	4.05		
	c2 Column	8	1.25	1.5	0.3	4.5		
	C3	9	1.25	1.5	0.3	5.06		
	Long Wall				0.3	0		
		8	2.735	0.75	0.3	4.92		
		4	2.86	0.75	0.3	2.57		
	Short side wall	6	4.035	0.75	0.3	5.45		
		6	4.16	0.75	0.3	5.62		
	Platform				0.3	0		
	Long Wall	4	6.16	0.75	0.3	5.54		
	Short Wall	8	1.425	0.75	0.3	2.57		
	Platform Ramp							
	Long Wall	4	3.76	0.75	0.3	3.38		
	Short Wall	8	5.75	0.75	0.3	10.35		
	Dal Mill unit	1	24.3	21.3	0.05	25.88		
	TOTAL					79.89	80	CU.M.
2	Excavation in Hard murum							
	C1 Column	6	1.5	1.5	0.7	9.45		
	c2 Column	8	1.25	1.5	0.7	10.5		
	C3	9	1.25	1.5	0.7	11.81		
	Long Wall				0.7	0		
		8	2.735	0.75	0.7	11.49		
		4	2.86	0.75	0.7	6.01		
	Short side wall	6	4.035	0.75	0.7	12.71		
		6	4.16	0.75	0.7	13.1		
	Platform				0.7	0		
	Long Wall	4	6.16	0.75	0.7	12.94		
	Short Wall	8	1.425	0.75	0.7	5.99		
	Platform Ramp							
	Long Wall	4	3.76	0.75	0.7	7.9		
	Short Wall	8	5.75	0.75	0.7	24.15		
	TOTAL					126.05	126	CU.M.
3	Excavation in Hard murum and Boulders							
	C1 Column	4	1.4	1.4	0.05	0.39		
	c2 Column	4	1.25	1.4	0.05	0.35		
	C3	8	1.25	1.4	0.05	0.7		
	TOTAL					1.44	1	CU.M.
4	Excavation in Soft Rock							
	C1 Column	6	1.5	1.5	0.025	0.34		
	c2 Column	8	1.25	1.5	0.025	0.38		

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	C3	9	1.25	1.5	0.025	0.42		
	TOTAL					1.14	1	CU.M.
5	Excavation in Hard Rock							
	C1 Column	6	1.5	1.5	0.025	0.34		
	c2 Column	8	1.25	1.5	0.025	0.38		
	C3	9	1.25	1.5	0.025	0.42		
	TOTAL					1.14	1	CU.M.
6A	providing anti-termite treatment to Bottom							
	C1 Column	6	1.5	1.5		13.5		
	c2 Column	8	1.25	1.5		15		
	C3	9	1.25	1.5		16.875		
	Long Wall					0		
		8	2.735	0.75		16.41		
		4	2.86	0.75		8.58		
	Short side wall	6	4.035	0.75		18.1575		
		6	4.16	0.75		88.5225	89	SQ.M.
6B	Backfilling trenches & plinth							
	C1 Column	6	1.5	1.5		13.5		
	c2 Column	8	1.25	1.5		15		
	C3	9	1.25	1.5		16.875		
	Long Wall					0		
		8	2.735	0.75		16.41		
		4	2.86	0.75		8.58		
	Short side wall	6	4.035	0.75		18.1575		
		6	4.16	0.75		18.72		
	C1 Column	-6	0.5	0.5		-1.5		
	c2 Column	-8	0.35	0.5		-1.4		
	C3	-9	0.35	0.5		-1.575		
	Long Wall	-8	2.735	0.35		-7.658		
		-4	2.86	0.35		-4.004		
	Short side wall	-6	4.035	0.35		-8.4735		
		-6	4.16	0.35		-8.736		
						73.896	74	SQ.M.
6C	Dal Mill unit total Plinth	1	24.3	21.3		517.59		
	Platforms							
	Long Wall	4	6.16	1.425		35.112		
	Platforms Ramps	4	3.76	5.75		86.48		
						639.182	639	SQ.M.
7	Providing PCC M-10							
	C1 Column	6	1.5	1.5	0.15	2.025		
	c2 Column	8	1.25	1.5	0.15	2.25		
	C3	9	1.25	1.5	0.15	2.53125		
	Long Wall				0.1	0		
		8	2.735	0.75	0.1	6.41		

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		4	2.86	0.75	0.1	0.858		
	Short side wall	6	4.035	0.75	0.1	1.81575		
		6	4.16	0.75	0.1	1.872		
	Below Plinth Beams							
	Long Wall	8	2.735	0.35	0.1	0.7658		
		4	2.86	0.35	0.1	0.4004		
		6	4.035	0.35	0.1	0.84735		
		6	4.16	0.35	0.1	0.8736		
	Platform				0.1			
	Long Wall	4	3.366	0.75	0.1	1.0098		
	Short Wall	8	1.425	0.75	0.1	0.855		
	Platform Ramp							
	Long Wall	4	3.76	0.75	0.1	1.128		
	Short Wall	8	5.75	0.75	0.1	3.45		
	Dal Mill Total Plinth	1	24.3	21.3	0.1	51.759		
	TOTAL					74.08195	74	CU.M.
8	Providing RCC 1:1.5:3 for footing							
	C1 Column	6	1.2	1.2	0.4	3.456		
	c2 Column	8	0.95	1.2	0.4	3.648		
	C3	9	0.95	1.2	0.4	4.104		
						11.208	11	CU.M.
9	Providing RCC 1:1.5:3 for Column							
	Below plinth							
	C1 Column	6	0.35	0.35	7.15	5.25525		
		24	0.35	0.15	7.15	9.009		
	c2 Column	8	0.35	0.5	7.15	10.01		
	C3	9	0.35	0.5	7.15	11.26125		
	TOTAL					35.5355	36	CU.M.
10	Providing RCC 1:1.5:3 for Beams							
	Below Plinth							
	Long Wall	8	2.735	0.45	0.45	4.4307		
		4	2.86	0.45	0.45	2.3166		
	Short side wall	6	4.035	0.45	0.45	4.902525		
		6	4.16	0.45	0.45	5.0544		
						16.70423	16.7	CU.M.
11	Providing RCC 1:1.5:3 for Beams							
	Above Plinth Level							
	At Lintel level							
	Long Wall	8	2.735	0.35	0.45	3.4461		
		4	2.86	0.35	0.45	1.8018		
	Short side wall	6	4.035	0.35	0.45	3.813075		
		6	4.16	0.35	0.45	3.9312		
	TOTAL					12.99218	12.99	CU.M.
12	Providing UCR Masonry in Cement Mortar 1:6 in Substructure							
	Foundation to plinth level							
	Long Wall	8	2.735	0.45	1.5	14.769		
		4	2.86	0.45	1.5	7.722		

  
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	Short Wall	6	4.035	0.45	1.5	16.34175		
		6	4.16	0.45	1.5	16.848		
	Platform				1.5			
	Long Wall	4	3.366	0.45	1.85	11.20878		
	Short Wall	8	1.425	0.45	1.85	9.4905		
	Platform Ramp							
	Long Wall	4	3.76	0.45	1.05	7.1064		
	Short Wall	8	5.1	0.45	0.925	16.983		
	Total					100.4694	100.47	CU.M.
13	Providing BBIM in Cement Mortar 1:6 in Superstructure Above Plinth Level							
	Long Wall	8	2.735	0.35	4.26	32.62308		
		4	2.86	0.35	4.26	17.05704		
	Short Wall	6	4.035	0.35	4.26	36.09711		
		6	4.16	0.35	4.26	37.21536		
	Long Wall	1	11.98	0.35	4.26	17.86218		
	Short Wall	1	10.48	0.35	4.26	15.62568		
	Deductions							
	Rolling Shutters RS1	-11	3.76	0.35	4.26	-61.66776		
	Rolling Shutters RS2	-2	1.8	0.35	2.4	-3.024		
	Lintel Beam , Eaves level and gable	-12.99				-12.99		
	Platform							
	Long Wall	4	3.366	0.35	0.75	3.5343		
	Short Wall	8	1.425	0.35	0.75	2.9925		
	TOTAL					85.32549	85.33	CU.M.
14	Cement Plaster 12 mm thick in single coat in Cement Mortar 1:4 to inside of walls							
	Machine Shed							
	Long Walls	2	11.98		4.71	112.8516		
	Short Walls	2	21.3		4.71	200.646		
	Cleaning & Grading unit							
	Long Walls	2	11.98		4.71	112.8516		
	Short Walls	2	10.48		4.71	98.7216		
	Packing unit							
	Long Walls	4	5.81		4.71	109.4604		
	Short Walls	4	10.48		4.71	197.4432		
	Top of walls	1	136.38		0.35	47.733		
	Deductions							
	Rolling Shutters	-11	3.76		4.26	-176.1936		
	Rolling Shutters	-2	1.8		2.4	-8.64		
	TOTAL					694.8738	695	SQ.M.
15	Waterproof Cement Plaster 23 (15+8) mm thick in two coat in Cement Mortar 1:4 to external faces of walls							
	Long Walls	2	25		5.71	285.5		
	Short Walls	2	22		5.71	251.24		
	Sides of Columns	52	0.25		5.71	74.23		
	Deductions							

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	Rolling Shutters	-10	3.76		4.26	-160.176		
	Add for Sills & Jams of Rolling Shutters							
	Top sills	10	3.76	0.35		13.16		
	Jams	20	0.35		4.26	29.82		
						493.774	494	SQ.M.
16	Providing white lime wash in two coats to internal wall of Machine Shed, Cleaning & Grading Unit, Packing Units,							
	Quantity same as that of internal cement plaster					695	695	SQ.M.
17	Providing Colour wash in two coats to External wall of Machine Shed, Cleaning & Grading Unit, Packing Units,							
	Quantity same as that of external cement plaster					494	494	SQ.M.
18	Providing steel ventilators weighing 20Kg per Squaremeter and as per drawing and specifications							
	VI Ventilators Provisiom	10	0.6		0.6	3.6		
						3.6	3.6	SQ.M.
19	Providing Rolling shutter as per drawing and specifications							
	Rolling Shutters							
	Long Side	8	3.76		4.26	128.1408		
	Short side	3	3.76		4.26	48.0528		
	Short side	2	1.8		2.4	8.64		
						184.8336	184.8336	SQ.M.
20	Providing Synthetic Enamel painting in three Coats to Steel Ventilators and Rolling Shutters.							
	VI Ventilators	10	0.6		0.6	3.6		
	Rolling Shutters	27.5	3.76		4.26	440.484		
		5	1.8		2.4	21.6		
	Stack lines	2	10.18		0.1	2.036		
		2	19.5		0.1	3.9		
	C&G UNIT	2	10.18		0.1	2.036		
		2	8.68		0.1	1.736		
	Packing units	4	4.01		0.1	1.604		
		4	8.68		0.1	3.472		
						480.468	480.468	SQ.M.
21	H.M. filling with watering and compaction							
	Plinth of Machinery Shed	1	11.98	21.3	0.55	140.3457		
	C&G UNIT	1	11.98	10.48	0.55	69.05272		
	Packing Unit-1 & 2	2	5.81	10.48	0.55	66.97768		

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	Platforms							
	Area*height	6	3.76	1.45	0.55	17.9916		
	Ramp	4	3.76	4.55	0.55	37.6376		
						332.0053		
	Available from excavation				1	-63		
	H.m. to be brought from outside					269.0053	269	CU.M.
22	Providing PCC 1:2:4 on top of Apron							
	Apron							
	Long Wall	0	12.2	0.65	0.05	0		
	Short Wall	0	24.1	0.65	0.05	0		
						0	0	CU.M.
23	Providing Size metal layer on Apron							
	Apron							
	Long Wall	0	12.2	0.65	0.1	0		
	Short Wall	0	24.1	0.65	0.1	0		
						0	0	CU.M.
24	Providing soft murum blindage over size metal layer for----							
	Plinth of Machinery Shed	1	11.98	21.3	0.025	6.37935		
	C&G UNIT	1	11.98	10.48	0.025	3.13876		
	Packing Unit-1 &2	2	5.81	10.48	0.025	3.04444		
						12.56255	13	CU.M.
25	Providing compaction by plate vibrator over apron size metal layer							
	Apron							
	Long Wall	0	12.2	0.65		0		
	Short Wall	0	24.1	0.65		0		
						0	0	SQ.M.
26	Cement plaster 12 mm thick without cement slurry finish							
	TOTAL SHED							
	Long Wall plinth to Road level	2	25		1	50		
	Short Wall	2	22		1	44		
	Platforms							
	Long Wall	4	3.76		0.95	14.288		
	Short Wall	8	1.8		0.95	13.68		
						121.968	122	SQ.M.
27	Providing 1.50 mm thick cement slurry finish to green cement plaster at above complete as directed by Engineer-in-Charge.				Qty same as that of above item	122		
						122	122	SQ.M.

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28	Providing Compacted 150 mm thick Size metal layer in the plinth of								
	Plinth of Machinery Shed	1	11.98	21.3	0.15	38.2761			
	C&G UNIT	1	11.98	10.48	0.15	18.83256			
	Packing Unit-1 &2	2	5.81	10.48	0.15	18.26664			
	Platforms				0.15				
	Area*height	6	3.76	1.45	0.15	4.9068			
	Ramp	4	3.76	4.55	0.15	10.2648			
						90.5469	91	CU.M.	
29	Providing RCC 1:1.50:3, 150 mm thick Concrete layer in the plinth floor of Machine Shed building								
	Plinth of Machinery Shed	1	11.98	21.3	0.15	38.2761			
	C&G UNIT	1	11.98	10.48	0.15	18.83256			
	Packing Unit-1 &2	2	5.81	10.48	0.15	18.26664			
	Platforms				0.15				
	Area*height	6	3.76	1.45	0.15	4.9068			
	Ramp	4	3.76	4.55	0.15	10.2648			
						90.5469	91	CU.M.	
30	Providing and fixing M.S. Sill Angle of size 50x50 6mm at Rolling Shutter Door including hold fast, line level complete as per specifications.								
	Rolling Shutters	11	4.36	4.5	Kg/per M	215.82			
		2	2.4	4.5	Kg/per M	21.6			
						237.42	0.24	M.T.	
31	M.S. Bar Reinforcement								
	Footing	11	CU.M	65	Kg/per CU.M.	715			
	Column in Sub Structure	36	CU.M	100	Kg/per CU.M.	3600			
	Beam in Sub Structure	16.7	CU.M	75	Kg/per CU.M.	1252.5			
	Beam in Super Structure	12.99	CU.M	75	Kg/per CU.M.	974.25			
	Chajjas in Superstructure Structure	0.96	CU.M	50	Kg/per CU.M.	48			
					Kg/per CU.M.	6589.75			
					Kg/per CU.M.	6.59	M.T.		

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32	Providing Mild Steel IN TRUSSES, other similar trussed purlins, members with all bracings, gusset plates conforming to IS:226 and IS:2062, nuts and bolts with fabrication, erection, scaffolding, Cleaning, applying, Red Oxide primer one coat and oil painting in two coats, testing, with all leads and lifts complete as per specifications and as directed.							
	Area of Machine Shed	1.5	12.675	22	Total	418.275		
	C&G UNIT, Packing Unit	1	12.675	22	Total	278.85		
	Platforms	4	4.11	1.8		29.592		
	Platforms	6	4.11	5		123.3		
						850.017		
					KG/SQ.M	20		
						17000.34		
						17	17	M.T.
33	0.9 m high and three rows S.S Railing							
		4	1			4	4	RM.
34	Providing, ISMC 150X65 MM, fabricating, fixing in position with holdfast, one coat of red oxide primer and two coats of oil paint, etc complete as per specification complete as directed.							
	Platforms							
	Long Side	4	3.76			15.04		
	Short Sides	8	1.8			14.4		
						29.44		
					KG/RMT	16.1		
						473.984		
					WT in M.T.	0.47	0.47	M.T.
35	Providing Teak Wood Frame of 125x65 mm size including planning, fixing holdfast, one coat of primer and two coats of oil paint, complete as per specification and as directed.				TOTAL WT			
	Door 1x2.1 m							
	Vertical	0	0.1	0.06	2.175	0		
	Horizontal	0	1.575	0.1	0.06	0		
						0	0	CU.M.

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36	Providing 52 mm solid core flush door shutter, with necessary iron oxidised fixtures and fasteners, one coat of primer and two coats of oil paint, complete as directed							
	Shutter	0	1.058		2.1	0		
						0	0	SQ.M.
37	Providing and fixing in position two track powder coated Aluminium Windows with stainless steel wire net complete as per specification and as directed.							
		0	1.2		1.5	0		
						0	0	SQ.M.
38	Providing and laying RCC Chajja in cement concrete 1:1.5:3 for fins and pardiies ,including formwork, viration, curing ,testing complete as per specifications and as directed.							
	Cantilever pardi							
	Long sides bottom tier	10	0.6	0.8	0.08	0.384		
	Vertical Fins							
	Long sides bottom tier	20	0.6	0.6	0.08	0.576		
						0.96	0.96	CU.M.
39	Providing , fabricating, fixing in position M.S. ladder as per drawing and design, one coat of red oxide primer and two coats of oil paint complete as per specifications and as directed by the Engineer-in-Charge.							
	M.S ANGLES 65*65*8 mm	2	15.45	7.7		237.93		
	20 MM RUNGS @30 CM CM C/C	81.5	0.4	2.46		80.196		
	M.S ANGLES 65*65*8 mm	2	10.45	7.7		160.93		
	20 MM RUNGS @30 CM CM C/C	46.5	0.4	2.46		45.756		
	Base plate , Holdfast etc					20		
	Fire Bucket Stands	4	75			300		
						844.812		
						0.844812	0.84	M.T.

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41	Providing and fixing in position 11.35 M height lightening arrester as per drawing , design, specification complete as directed by Engineer-in-Charge.			1			1		1 NO.
40	Providing and fixing of colour coated Zincoaluminium( 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 ( BMT ) (0.5 mm TCT ), Hi-strength steel with min.550 MPa yield strength, metallic hot dip coated withAluminium-Zinc alloy (55% aluminium 43.4% zinc 1.6% silicon) with COLORBOND ( R ) steel quality super durable polyster paint coat ( with inorganic pigment). The paint shall have a total coating thickness of nominal 35 mm, comprising of nominal 25mm exterior coat on top surface and nominal 10 um reverse coat on back surface. Profile sheet shall have nom. 950-1050 mm effective cover width and nominal 25-30 mm deep ribs with sublet square fluting in the five pan at nominal 180-250 mm center- to-center. The end rib shall be designed for anti-capacity groove. and return leg. The feed material should have coil manufacturers product details marked a regular interval. including fasteners with min. fastened with min. 25 um Zinc-Tin alloy coated, Hex head, self-drilling screw etc. complete. (weight of profile 4.52 Kilogram/ One Square Metre) 600 mm girth (Surface Width).								
	Machine shed								
	ROOF	2	12.675	11.18			283.413		
	SIDES	2	12.5			8.29	207.25		
	SIDES	2	22			8.29	364.76		
	C&G +PACKING UNIT Roof	2	12.675	11.18			283.413		
	Sides	2	12.5			3.79	94.75		
	Sides	1	22			3.79	83.38		
	Gable	1	22			3	66		
		1	22			0.5	11		
	PLATFORMS	4	4.46	1.8			32.112		
	PLATFORMS	4	4.46	5			89.2		
		2	5.76	5			57.6		
							1572.878	1572.88	SQ.M.
41	600 mm Diameter Turboventilators								
		6					6		
		6					6		
							12	12 NO.	


**SUBHASH D. PA**  
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PROPOSED CONSTRUCTION OF DAL MILL--MACHINERY SHED, CLEANING AND GRADING UNIT, PACKAGING FOR ,  
 FINISHED DAL AND BESAN, ANCILLARY WORKS AT SURVEY NO. 216/A AND GAT NO.3450,  
 VILLAGE TANDULWADI, TQ. WASHI, DIST. OSMANABAD  
 NAME OF COMPANY:-- ARUSHAGRO FARMER PRODUCER COMPANY LTD.

ABSTRACT OF MEASUREMENTS FOR INTERNAL ROADS

SR.NO.	DESCRIPTION OF ITEM	UNIT	QUANTITY	RATE	AMOUNT	REMARK
1	Excavation for roadway in earth,soil of all sorts ,sand ,gravel or soft murum including dressing section to required grade,camber, and side slopes and conveying the excavated material with all lifts upto lead of 50 m and spreading for embankment or stacking as directed	CU.M.	102	119	12138	SSR 2.21/P/26
2	Hard Murum embankment (brought by contractor	CU.M.	153	737	112761	SSR 2.13/P/26
3	Supplying Oversize metal	CU.M.	135.66	988.91	134155.531	R.A attached
45	Supplying Size metal	CU.M.	76.5	998.14	76357.71	R.A attached
5	Supplying Soft murum as blindage	CU.M.	5.3	620.58	3289.074	SSR2.29 B/P/28
6	Spreading Oversize metal	CU.M.	135.66	79	10717.14	SSR2.3 RD SUB- GRADE/P/28
7	Spreading Size metal	CU.M.	76.5	79	6043.5	SSR2.3 RD SUB- GRADE/P/28
8	watering and Copaction by 10 T Roller, metal layers, blindage complete as per specifainsand as directed.	SQ.M.	4080	21	85680	SSR/2.31/P/28
9	Providing and fixing 300 X450 X200 M/M Precast RCC Kerb sone, complete as per specifications and as directed.	RM	104	600	62400	MR
				TOTAL	503541.955	
					503542	

  
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PROPOSED CONSTRUCTION OF DAL MILL--MACHINERY SHED, CLEANING AND GRADING UNIT, PACKAGING FOR ,  
 FINISHED DAL AND BESAN, ANCILLARY WORKS AT SURVEY NO. 216/A AND GAT NO.3450,  
 VILLAGE TANDULWADI, TQ. WASHI, DIST. OSMANABAD  
 NAME OF COMPANY:-- ARUSHAGRO FARMER PRODUCER COMPANY LTD.

**MEASUREMENTS FOR INTERNAL SERVICE ROADS AROUND PROPOSED MACHINE SHED, C& G UNIT, PACKIG UNITS.**

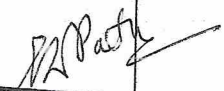
SR.NO.	DESCRIPTION OF ITEM	NO.	LENGTH	BREADTH	HEIGHT	QUANTITY	TOTAL QTY	UNIT
	Length of Road around Machine Shed, Cleaning & Grading Unit, Packing Units,	2	66	6		792		
		1	38	6		228		
						1020		SQ.M.
		RMT	104					
1	Excavation in soil plus soft murum		1020		0.1	102	102	
							102	CU.M.
2	Hard murum embakment with watering and compaction	1	1020		0.15	153	153	CU.M.
							153	SQ.M.
3	Supplying Oversize metal Compacted Qty	1	1020		0.1	102		
	Multiplying Factor					1.33		
	TOTAL QTY.					135.66	135.66	CU.M.
4	Supplying Size metal Compacted Qty	1	1020		0.05	51		CU.M.
	Multiplying Factor					1.5		
	TOTAL QTY.					76.5	76.5	CU.M.
5	Supplying Soft murum as blindage over size metal Layer	135.66	0.025			3.3915		
	Size metal layer	76.5	0.025			1.9125		
						5.304	5.3	
	Available from Excavation Qty to be brought from outside					0		
							5.304	
							5.3	CU.M.
6	Spreading Oversize metal					135.66	135.66	CU.M.
7	Spreading Size metal					76.5	76.5	CU.M.
8	Watering and Copaction by 10 T Roller, metal layers, blindage complete as per specifainsand as directed.	1						
	Oversize metal layer	1						
	Bilndage over Oversize metal	1						
	Size metal layer	1						
	Bilndagè over Size metal	1						
		4	1020			4080	4080	SQ.M.
9	Provoding and fixing 200x200x450 precast guard stone, complete as per specifications and as directed.	2	104			208		
	2 M Center to center					104	104	NO

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10	Providing RCC 1:1.5:3 for Column in Superstructure and Superstructure including, formwork, compaction by vibrator, curing, testing etc. with all leads and lifts, complete as per specifications.	CU.M.	1.49	13928.64	20753.6736	
11	Providing RCC 1:1.5:3 for Beam in Substructure and Superstructure including, formwork, compaction by vibrator, curing, testing etc. with all leads and lifts, complete as per specifications.	CU.M.	0.81	13928.64	11282.1984	BDF-5/P/300 & B-7/P/38
12	Providing and fixing 50 mm dia. medium class G.I. pipe gate with wicket gate of approved drawing with all fixtures and fittings in two leaves with strong hold fast embedded in c.c. block at top and bottom with locking arrangement including cutting, bending, making holes and with one coat of primer etc. complete.	SQ.M.	10.8	7259.62	78403.896	BDG-1/P/313
13	M.S. TMT FC 300 Grade Bar Reinforcement conforming to IS:226 and IS:2062, including cutting, bending, binding with M.S. G.I. wires, placing in position, testing complete as per specifications and as directed.	M.T.	0.33	89774.44	29625.5652	BDF-17/P/306
14	Providing and erecting chain link fencing 1.6 M. height with G.I. chain link of size 50 x 50 mm, 8 gauge thick and fixed 75 mm above ground level on vertical M.S. Angles of 40 x 40 x 6 mm size, including excavating pits for foundation and embedded in C.C. block of 1:4:8 mix of size 450 x 450 x 670 mm. at 1.75 M. c/c with iron bar 15mm dia as hold fast including welding link with angle frame at 30 cm c/c with nuts and bolts on horizontal M.S. Angles at top and bottom of 25 x 25 x 5 mm size and vertical M.S. flat 35 x 5 mm and 25 x 5 mm horizontal including cross support of 40 x 40 x 6 mm angles both side at every corner or bend embedded in concrete blocks of 1:4:8 of size 450 x 450 x 670 mm including 3 coats of oil painting etc. complete.	R.M.	79	2539	200581	SSR 46.39/Bulding Maintenance
15	Rubble soling	CU.M.	0	1454	0	SSR 21.4/BDA/P/194
				Total	733681.907	
				TOTAL	733682	

  
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PROPOSED CONSTRUCTION OF DAL MILL--MACHINERY SHED, CLEANING AND GRADING UNIT, PACKAGING FOR ,  
 FINISHED DAL AND BESAN, ANCILLARY WORKS AT SURVEY NO. 216/A AND GAT NO.3450,  
 VILLAGE TANDULWADI, TQ. WASHI, DIST. OSMANABAD  
 NAME OF COMPANY:-- ARUSHAGRO FARMER PRODUCER COMPANY LTD.

**ABSTRACT OF MEASUREMENTS FOR COPMPOUND WALL**

SR.NO.	DESCRIPTION OF ITEM	UNIT	QUANTITY	RATE	AMOUNT	REMARK, Std Specification Ref
1	Excavation in soil plus soft murum with all leads and lifts, with backfilling the trenches and dewatering complete.(Mannually)	CU.M.	6	232	1392	BDA-1/Page No. 259
2	Excavation in Hard murum with all leads, lifts including backfilling the trenches and dewatering complete.	CU.M.	34	354	12036	BDA-1/Page No. 259
3	Excavation in Hard murum and Boulders with all leads and lifts including backfilling the trenches and dewatering complete.( Mechanical means)	CU.M.	5	235	1175	BDA-1/Page No. 259
4	Excavation in Soft Rock with all leads and lifts, backfilling the trenches and dewatering complete.(Mechanical means)	CU.M.	1	291	291	BDA-1/Page No. 259
5	Excavation in Hard Rock with pneumatic breaker, all leads and lifts, backfilling the trenches and dewatering complete.(Mechanical means)	CU.M.	1	1051	1051	BDA-1/Page No. 259
6	Providing, laying, PCC 1:3:6 including formwork, compaction, curing with all leads and lifts complete as per specifications.	CU.M.	6	5987.12	35922.72	BDE-1/P/287
7	Providing RCC Stone in Cement Mortar 1:6 in Substructure with scaffolding, curing, testing all leads and lift complete as per specifications.	CU.M.	61.49	5025	308987.25	
8	PCC M-15 Coping	CU.M.	3.83	6509.39	24930.9637	SSR 24.16/BDE-3/P/218
9	Providing RCC 1:1.5:3 for Footing in Substructure including, formwork, compaction by vibrator, curing, testing etc. with all leads and lifts, complete as per specifications.	CU.M.	1	7249.64	7249.64	

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PROPOSED CONSTRUCTION OF DAL MILL--MACHINERY SHED, CLEANING AND GRADING UNIT, PACKAGING FOR ,  
 FINISHED DAL AND BESAN, ANCILLARY WORKS AT SURVEY NO. 216/A AND GAT NO.3450,  
 VILLAGE TANDULWADI, TQ. WASHI, DIST. OSMANABAD  
 NAME OF COMPANY:-- ARUSHAGRO FARMER PRODUCER COMPANY LTD.

**MEASUREMENTS OF COMPOUND WALL .**

SR.NO.	DESCRIPTION OF ITEM	NO.	LENGTH	BREADTH	HEIGHT	QUANTITY	TOTAL QTY	UNIT	REMARK
	COMPOUND WALL								
	LENGTH	41							
	BREADTH	38							
1	Excavation in soil and soft murum etc								
	Long Wall	1	41	0.6	0.1	2.46			
	Short wall	1	38	0.6	0.1	2.28			
	Gate				0.1	0			
	Columns	2	1.6	1.6	0.1	0.512			
	Wall	1	6	0.75	0.1	0.45			
						5.702		6 CU.M	
2	Excavation in Hard murum --								
	Long Wall	1	41	0.6	0.6	14.76			
	Short wall	1	38	0.6	0.6	13.68			
	Gate				0.6	0			
	Columns	2	1.6	1.6	0.6	3.072			
	Wall	1	6	0.75	0.6	2.7			
						34.212		34 CU.M	
3	Eccavation in H.M.plus boulders								
	Provisional Qty					5		5 CU.M	
4	Eccavation in Soft Rock								
	Provisional Qty					1		1 CU.M	
5	Eccavation in Hard Rock								
	Provisional Qty					1		1 CU.M	
6	Providing C.C (1:3:6) for bed concrete----								
	Long Wall	1	41	0.6	0.1	2.46			
	Short wall	1	38	0.6	0.1	2.28			
	Gate				0.1	0			
	Columns	2	1.6	1.6	0.1	0.512			
	Wall	1	6	0.75	0.1	0.45			
						5.702		6 CU.M	
7	Providing GCR Stone in Cement Mortar 1:6 in Substructure with scaffolding, curing, testing all teads and lift complete as per specifications.								
	Long Wall	1	41	0.45	1.05	19.3725			
	Short wall	1	38	0.45	1.05	17.955			
	Wall	1	6	0.45	1.05	2.835			
	Above Ground Level								
	Long Wall	1	41	0.45	0.6	11.07			
	Short wall	1	38	0.45	0.6	10.26			
						61.4925		61.49 CU.M.	
8	PCC M-15 Coping								

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	Long Wall	1	41	0.45	0.1	1.845		
	Short wall	1	38	0.45	0.1	1.71		
	Wall	1	6	0.45	0.1	0.27		
						3.825	3.83	CU.M.
9	RCC Footing (1:1.5:3)							
	Column footings	2	1.3	1.3	0.4	1.352		
						1.352	1	CU.M
10	RCC Column (1:1.5:3)							
		2	0.45	0.6	2.65	1.431		
	Conical portion	2	0.45	0.6	0.108333	0.0585		
						1.4895	1.49	CU.M
11	RCC BEAM (1:1.5:3)							
		1	6	0.45	0.3	0.81	0.81	CU.M
12	M.S Gate 35Kg/SQ.M.							
		1	6		1.8	10.8		
						10.8	10.8	SQ.M.
13	TMT bar reinforcement fe-500 G							
	RCC Footing	1						
	RCC Column	1.49						
	RCC Beam	0.81						
		3.3	100			330		
						0.33	0.33	M.T.
14	Providing and erecting chain link fencing 1.6 M. height with G.I. chain link of size 50 x 50 mm, 8 gauge thick and fixed 75 mm above ground level on vertical M.S. Angles of 40 x 40 x 6 mm size, including excavating pits for foundation and embedded in C.C. block of 1:4:8 mix of size 450 x 450 x 670 mm. at 1.75 M. c/c with iron bar 16mm dia as hold fast including welding link with angle frame at 30 cm c/c with nuts and bolts and horizontal M.S. Angles at top and bottom of 25 x 25 x 5 mm size and vertical M.S. flat 35 x 5 mm and 25 x 5 mm horizontal including cross support of 40 x 40 x 6 mm angles both side at every corner or bend embedded in concrete blocks of 1:4:8 of size 450 x 450 x 670 mm including 3 coats of oil painting etc. complete.							
	Long Wall	1	41			41		
	Short Wall	1	38			38		
						79	79	R.M.
15	Rubble soling							
	Long Wall	0	41	0.6	0.3	0		
	Short wall	0	38	0.6	0.3	0		
	Gate				0.3	0		
	Columns	0	1.6	1.6	0.3	0		
	Wall	0	6	0.75	0.3	0		
						0	0	CU.M

*[Signature]*

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PROPOSED CONSTRUCTION OF DAL MILL--MACHINERY SHED, CLEANING AND GRADING UNIT, PACKAGING FOR, FINISHED DAL AND BESAN, ANCILLARY WORKS AT SURVEY NO. 216/A AND GAT NO.3450, VILLAGE TANDULWADI, TO. WASHI, DIST. OSMANABAD  
NAME OF COMPANY:-- ARUSHAGRO FARMER PRODUCER COMPANY LTD.

ROYALTY CHARGES RECOVERY STATEMENT

SR.NO.	PARTICULARS OF ITEM	EXECUTED UNIT	MATERIAL QTY FOR ROYALTY	CEMENT/ CU.M	TOAL CEMENT IN BAGS	SAND	TOTAL SAND QTY. IN CU.M	MURUM/ CU.M	TOTAL QTY OF MURUM IN CU.M	Metal/ CU.M.	TOTAL QTY OF METAL IN CU.M.	QTY OF RUBBLE PER CU.M	TOTAL RUBBLE QTY	TOTAL ROYALTY CHARGES
WH														
1	UCR M FOR SUB STRUCTURE	161.96 CU.M	1.7	275.332	0.35	56.69						1.25	202	
2	BBM IN CM1:6 SUPERSTRUCTURE	85.33 CU.M	1.58	134.82	0.32	27.31								
		40531.75												
3	Sand rced cement plaster in two coats (approved screened sand)	494 SQ.M.	0.17	83.98	0.025	12.35								
4	Internal cement plaster 12 mm thk. Single coat in C.M.(1:4)	817 SQ.M.	0.17	138.89	0.025	20.43								
5	Hard Murum	282 CU.M.						1.2	338.4		1.32	120.12		
6	Stone Metal Layer	91 CU.M.												
7	TRIMIX CONCRETE M-20	91 CU.M.	7	637	0.43	39.13								
8	RCC Footing (1:1.5:3)	11 CU.M.	7	77	0.43	4.73								
9	RCC Colum (1:1.5:3)	36 CU.M.	7	252	0.43	15.48								
9	RCC Beam (1:1.5:3)	29.69 CU.M.	7	207.83	0.43	12.77								
10	RCC Chajjas (1:1.5:3)	0.96 CU.M.	7	6.72	0.43	0.41								
	TOTAL OF RCC (1:1.5:3)	168.65 CU.M.												
11	PCC (1:3:6)/M-10	74 CU.M.	4.4	325.6	0.44	32.56								
	INTERNAL SERVICE ROADS													
1	Oversize Metal	135.66 CU.M.								1.32	179.0712			
2	Size metal	76.5 CU.M.								1.32	100.98			
3	Soft murum	5.3 CU.M.						1.2	6.36					
4	Hard Murum	153 CU.M.						1.2	183.6					
	TOTAL			1863.84		221.86		528.36			400.1712		202	
	ROYALTY CHARGES			93		212.01		212.01			212.01		212.01	
						47036.54		112017.6			84840.3		286720	

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PROPOSED CONSTRUCTION OF DAL MILL MACHINERY SHED, CLEANING AND GRADING, ANNEXILLARY WORKS,  
AT SURVEY NO. 216/A AND GAT NO.3450,VILLAGE TANDULWADI, TQ. WASHI, DIST. OSMANABAD

NAME OF COMPANY:-- ARUSHAGRO FARMER PRODUCER COMPANY LTD.

**TESTING CHARGES RECOVERY STATEMENT**

S.R.N.	PARTICULARS OF MATERIAL	QTY	UNIT	TESTS TO BE CARRIED OUT Fineness, Consistency, Setting Time, Compressive Strength, Specific Gravity.	NO. OF TEST	RATE	AMOUNT	REMARK
1	Cement	93	M.T.		2	7540	15080	One per 50 M.T. Upto 50 Cu.M.+ 4 Plus one for additional 50 Cu.M. or part of it.
2	Cement Concrete M-20	168.65	CU.M.	Compressive Cube Strength	7	1380	9660	
3	Bricks	85.33	CU.M.	Water Absorption(Set of Compressive Strength(Set of 5No.) Efflorescence( Set of 5No.)	1	1900	1900	One per 50000 No.
4	Sand	221.86	CU.M.	Fineness, Modulus, Silt C	1	1950	1950	One per source.
5	Murum	528.36	CU.M.	Gradation	2	600	1200	One test per 400 Cu.M. One per 10 M.T. for each category of Diameter of bar.
6	Mild Steel	6.59	M.T.	Ultimate Tensile Test, Wt	1	1275	1275	
7	Structural steel	17	M.T.		1	1595	1595	
8	Oversize+Size N	212.16	CU.M.		2	1595	3190	
				Aggregate Impact Value	1	2600	2600	per 1000 Cu.m.
				Gradation	5	690	3450	Per 250 Cu.m.
				Combined Flakiness & Elongation Indices	3	850	2550	Per 500 Cum
	TOTAL RS					RS.	44450	

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