

No.KAICO/HO/2/Agripark/PUNLR/2015-16

Dated : 31.12.2015

To

Shri. ....  
Empanel Contractor  
.....  
.....  
.....

Sir,

Sub:- Tender Schedule in respect of the Project of Agri Park, Punalur – published –  
reg.

Ref:- Last date of receipt of Tender documents dated : 20.01.2017 at 4.00 PM

This is to inform you that the first phase of the Project of Agri Park, Punalur going to be arranged with immediate effect and to be completed with minimum time. The Project mainly covers as eleven parts and the details of items of works, quantities and rate etc will be published in our website [www.keralaagro.com](http://www.keralaagro.com). Please download the schedule of all works from our website, quote your rate for each part and may be submitted to this Office on or before 20.01.2017 at 4.00 PM. The documents should be covered with sealed cover only and the same will be opened on 20.01.2017 at 4.30 PM in the presence of available contractors. An amount of Rs. 500/- (Rupees Five hundred only) to be remitted in the form of Demand Draft in favour of Managing Director towards cost of tender schedule.

In this connection we also bring your notice that the details of plans and all other details of work etc can be obtained from KAICO, Head Office, Thiruvananthapuram from 05.01.2017 to 19.01.2017 on office time between 10 AM to 5 PM. The rate may be quoted in the form as follows:

%(-) below estimate rate, %(+) above estimate, , Estimate rate etc.

Thanking You,

Yours faithfully,

For THE KERALA AGRO INDUSTRIES CORPORATION LIMITED,

  
MANAGING DIRECTOR

4

<b>GENERAL ABSTRACT</b>		
<b>NAME OF WORK- AGRIPARK- PUNALUR</b>		
<b>SL NO</b>	<b>NAME OF ESTIMATE</b>	<b>TOTAL AMOUNT</b>
1	AGRO GATE	442495
2	STAFF RETIRING CENTRE	527422
3	BHRS	892040
4	NURSERY	452606
5	AGRO SUPER BAZAAR	1641605
6	AGRO RETAIL OUTLETS	2769442
7	TRAINING CENTRE	542428
8	AGRO MUSEUM	2507105
9	CANTEEN	2152748
10 & 11	POLYHOUSE AND HARDENING UNIT	2074062
<b>GRAND TOTAL</b>		<b>14001953</b>
<b>(Rs. One Crore Forty Lakhs One Thousand Nine Hundred and Fifty Three)</b>		



<b>SCHEDULE OF QUANTITIES</b>						
<b>1. Name of work:GATE, Agrl Park</b>						
<b>Item No.</b>	<b>Description of Item</b>	<b>Quantity</b>	<b>Unit</b>	<b>Rate</b>	<b>Amount</b>	<b>DSR 2014 -</b>
				<b>Rs.</b>	<b>Rs.</b>	
<b>1.00</b>	<b>EARTH WORK</b>					
1.01	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (not exceeding 1.5m in width as well as 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5m; including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50m					
	a) All kinds of soil	9.00	Cum	157.50	1418	
1.02	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering lead upto 50 m and lift upto 1.5 m.	1.00	Cum	112.40	112	
1.03	Supplying and filling in plinth with jamuna sand under floors including, watering, ramming consolidating and dressing complete.	1.00	Cum	910.25	910	
				<b>Rs</b>	<b>2440</b>	
<b>2.00</b>	<b>CONCRETE WORK</b>					
2.01	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level.					
2.01.1	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size)	1.00	Cum	4301.15	4301	
2.01.2	1:5:10 (1 Cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	1.00	Cum	4004.00	4004	
2.03	Providing and laying damp-proof course 40 mm thick with cement concrete 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 12.5mm nominal size).	3.00	Sqm	257.15	773	
2.04	Extra for providing and mixing water proofing material in cement concrete work @ 1 kg per 50 kg of cement	1.00	Per 50 kg cement	48.15	48	
2.05	Applying a coat of residual petroleum bitumen of penetration 80/100 of approved quality using 1.7 kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	3.00	Sqm	132.00	396	
	<b>Total Cement Concrete work :</b>			<b>Rs.</b>	<b>9523</b>	
<b>3.00</b>	<b>R.C.C. WORK</b>					
3.01	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :					
	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	4.00	Cum	5725.90	22904	

Item No.	Description of Item	Quantity	Unit	Rate Rs.	Amount Rs.	DSR 2014 -
3.02	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:2:4 (1cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	3.00	Cum	7014.55	21044	
3.03	Steel reinforcement for R.C.C work including straighteneing, cutting, bending, placing in position and binding all complete upto plinth level					
	Thermo-Mechanically Treated bars	280.00	Kg	68.1	19068	
3.04	Steel reinforcement for R.C.C work including straighteneing, cutting, bending, placing in position and binding all complete above plinth level					
	Thermo-Mechanically Treated bars	210.00	Kg	68.10	14301	
3.05	Centering and shuttering including strutting, propping etc. and removal of form for :					
3.05.1	Foundation, footing, bases of columns etc. for mass concrete	15.00	Sqm	196.45	2947	
3.05.2	Lintels, beams, plinth beams, girders, bressumers and cantilevers	30.00	Sqm	332.15	9965	
3.05.4	Columns, Pillars, Piers, Abutments, Posts and struts.	18.00	Sqm	453.35	8160	
	<b>Total R.C.C. Work :</b>			<b>Rs</b>	<b>98388</b>	
<b>4.00</b>	<b>Laterite masonry</b>					
4.01	Providing and fixing up to floor five level laterite stone, including hoisting and setting in position with cement mortar 1:6 (1cement : 6coarse sand), cost of required centering, shuttering complete :					
		11.00	cum	8788.82	96644	
				<b>Rs</b>	<b>96644</b>	
<b>5.00</b>	<b>STONE WORK</b>					
5.01	Random Rubble Masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12(1 cement :6 coarse sand:12 graded stone agrregate 20mm nominal size )upto plinth level with					
	cement mortar1:6(1 cement:6 coarse sand)	1.00	cum	3918.10	3918	
				<b>RS</b>	<b>3918</b>	
<b>6.00</b>	<b>STEEL WORK</b>					
6.01	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete	380.00	kg	7395.00	28101	
6.02	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required					
	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	396.00	kg	90.10	35680	
				<b>Rs</b>	<b>63781</b>	
<b>7.00</b>	<b>FLOORING</b>					

Item No.	Description of Item	Quantity	Unit	Rate Rs.	Amount Rs.	DSR 2014 -
7.01	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption's less than 0.08% and conforming to IS : 15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm	4.00	sqm	1405.95	5624	
	<b>Total Flooring Work :</b>			<b>RS</b>	<b>5624</b>	
<b>8.00</b>	<b>FINISHING</b>					
8.01	12 mm cement plaster of mix : 1:6 (1 cement : 6 fine sand)	37.00	Sqm	149.45	5530	
8.02	White washing with lime to give an even shade: New work (three or more coats)	52.00	sqm	16.20	842	
8.03	Distempering with dry distemper of approved brand and manufacture (two or more coats) of required shade on new work, over and including water thinnable priming coat to give an even shade.	52.00	Sqm	68.60	3567	
8.04	Lettering with black Japan paint of approved brand and manufacture	150.00	per letter per cm height	2.45	368	
	Total Finishing Work :			<b>Rs</b>	<b>10307</b>	
<b>9</b>	<b>ALUMINIUM WORK</b>					
9.01	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections / appropriate Z sections and other sections of approved make conforming to IS 733 and IS 1285, fixing with dash fasteners of required dia and size, including necessary filling up of gaps at junctions, at top, bottoms and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and directions of Engineer-in-charge. (Glazing ,panelling and dash fasteners to be paid for separately).					
	For fixed portion					
	Powder coated aluminium (minimum thickness of powder coating 50 micron).	8.00	Kg	377.75	3022	
9.02	For shutter of door, windows & ventilators including providing and fixing hinges / pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately).					
	Powder coated aluminium (minimum thickness of powder coating 50 micron).	8.00	Kg	435.75	3486	

Item No.	Description of Item	Quantity	Unit	Rate Rs.	Amount Rs.	DSR 2014 -
9.03	Providing and fixing glazing in aluminium doors, windows, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per architectural drawings and the direction of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item.)					
	With float glass panes of 5.5 mm thickness.	3.00	Sqm	1054.20	3163	
	Total Aluminium work				<b>9671</b>	
<b>10</b>	<b>Roofing</b>					
10.01	Providing and laying manglore tiles(as per approved pattern 20mm nominal size of approved size)on roofs jointed with cement mortar 1:4( 1 cement:4 coarse sand)mixed with 2%integral water proofing compound and finished compete as per architectural drawings and direction of Engineer-in-charge.	19.00	sqm	607.32	11539	
				Rs	<b>11540</b>	
	<b>Total</b>				311836	
	<b>Add for rise in cost index</b>				130659	
	<b>Grand Total</b>				<b>442495</b>	

**SCHEDULE OF QUANTITIES**

**2. Name of work: Staff Retiring Centre, Agro Park**

Item No.	Description of Item	Quantity	Unit	Rate Rs.	Amount Rs.	DSR 2014 -
<b>1.00</b>	<b>EARTH WORK</b>					
1.01	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (not exceeding 1.5m in width as well as 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5m; including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead					
	a) All kinds of soil	6.00	Cum	157.50	945	
1.02	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering lead upto 50 m and lift upto 1.5 m.	5.00	Cum	112.40	562	
1.03	Supplying and filling in plinth with jamuna sand under floors including, watering, ramming consolidating and dressing complete.	2.00	Cum	910.25	1821	
				<b>Rs</b>	<b>3328</b>	
<b>2.00</b>	<b>CONCRETE WORK</b>					
2.01	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level.					
2.01.1	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size)	1.00	Cum	4301.15	4301	
2.01.2	1:5:10 (1 Cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	2.00	Cum	4004.00	8008	
2.02	Providing and laying damp-proof course 40 mm thick with cement concrete 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 12.5mm nominal size).	2.50	Sqm	257.80	645	
2.03	Extra for providing and mixing water proofing material in cement concrete work @ 1 kg per 50 kg of cement	1.00	Per 50 kg cement	48.15	48	
2.04	Applying a coat of residual petroleum bitumen of penetration 80/100 of approved quality using 1.7 kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	2.50	Sqm	132.00	330	



Item No.	Description of Item	Quantity	Unit	Rate Rs.	Amount Rs.	DSR 2014 -
2.05	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size) over 75mm bed of dry brick ballast 40mm nominal size well rammed and consolidated and grouted with fine sand including finishing the top smooth.	14.00	Sqm	419.30	5870	
<b>Total Cement Concrete work :</b>				<b>Rs</b>	<b>19202</b>	
<b>3.00</b>	<b>R.C.C. WORK</b>					
3.01	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :					
	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	4.00	Cum	5725.90	22904	
3.02	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:2:4 (1cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	1.00	Cum	7014.55	7015	
3.03	Steel reinforcement for R.C.C work including straighteneing, cutting, bending, placing in position and binding all complete upto plinth level					
	Thermo-Mechanically Treated bars	280.00	Kg	68.10	19068	
3.04	Steel reinforcement for R.C.C work including straighteneing, cutting, bending, placing in position and binding all complete above plinth level					
	Thermo-Mechanically Treated bars	7000.00	Kg	68.10	4767	
3.05	Centering and shuttering including strutting, propping etc. and removal of form for :					
3.05.1	Foundation, footing, bases of columns etc. for mass concrete	10.00	Sqm	196.45	1965	
3.05.2	Lintels, beams, plinth beams, girders, bressumers and cantilevers	24.00	Sqm	332.15	7972	
3.05.3	Columns, Pillars, Piers, Abutments, Posts and struts.	1.00	Sqm	453.35	453	
<b>Total R.C.C. Work :</b>				<b>RS</b>	<b>64144</b>	
<b>4.00</b>	<b>HOLLOW BLOCK MASONRY</b>					

Item No.	Description of Item	Quantity	Unit	Rate Rs.	Amount Rs.	DSR 2014 -
4.01	Providing and fixing up to floor five level precast cement concrete hollow block, including hoisting and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering, shuttering complete.					
	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	8.00	cum	6838.20	54706	
				<b>Rs</b>	<b>54706</b>	
<b>5.00</b>	<b>STONE WORK</b>					
5.01	Random Rubble Masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12(1 cement :6 coarse sand:12 graded stone aggregate 20mm nominal size )upto plinth level with					
	cement mortar1:6(1 cement:6 coarse sand)	2.00	cum	3918.11	7836	
				<b>Rs</b>	<b>7836</b>	
<b>6.00</b>	<b>STEEL WORK</b>					
6.01	Structural steel work riveted, bolted or welded in built up sections,trusses and framed work,including cutting,hoisting,fixing in position and applying a priming coat of approved steel primer all complete	705.00	kg	7395.00	52135	
	<b>Total Steel Work :</b>			<b>Rs</b>	<b>52135</b>	
<b>7.00</b>	<b>FLOORING</b>					
7.01	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption's less than 0.08% and conforming to IS : 15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc., complete.					
	Size of Tile 600x600 mm	22.00	sqm	1409.95	30931	
7.02	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey,Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4Coarse sand), including pointing the joints with white cement and matching pigment etc, complete.	3.00	sqm	785.40	2356	

Item No.	Description of Item	Quantity	Unit	Rate Rs.	Amount Rs.	DSR 2014 -
7.03	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS:15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12mm thick bed of cement mortar 1:3 (1 cement:3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete	12.00	sqm	836.65	10040	
	<b>Total Flooring Work :</b>			<b>Rs</b>	<b>43327</b>	
<b>8.00</b>	<b><u>FINISHING</u></b>					
8.01	12 mm cement plaster of mix : 1:6 (1 cement : 6 fine sand)	87.00	Sqm	149.45	13002	
8.02	15 mm cement plaster on rough side of single or half brick wall of mix : 1:6 (1 cement : 6 fine sand)	70.00	Sqm	172.80	12096	
8.03	White washing with lime to give an even shade: New work (three or more coats)	157.00	sqm	16.20	2543	
8.04	Distempering with dry distemper of approved brand and manufacture (two or more coats) of required shade on new work, over and including water thinnable priming coat to give an even shade.	87.00	Sqm	68.60	5968	
8.05	Finishing walls with water proofing cement paint of required shade : New work (Two or more coats applied @ 3.84 kg/10 sqm)	70.00	Sqm	57.85	4050	
	<b>Total Finishing Work :</b>			<b>Rs</b>	<b>37659</b>	
<b>9</b>	<b><u>ALUMINIUM WORK</u></b>					
9.01	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections / appropriate Z sections and other sections of approved make conforming to IS 733 and IS 1285, fixing with dash fasteners of required dia and size, including necessary filling up of gaps at junctions, at top, bottoms and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and directions of Engineer-in-charge. (Glazing, panelling and dash fasteners to be paid for separately).					

Item No.	Description of Item	Quantity	Unit	Rate Rs.	Amount Rs.	DSR 2014 -
	For fixed portion					
	Powder coated aluminium (minimum thickness of powder coating 50 micron).	10.00	Kg	377.75	3778	
9.02	For shutter of door, windows & ventilators including providing and fixing hinges / pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately).					
	Powder coated aluminium (minimum thickness of powder coating 50 micron).	15.00	Kg	435.75	6536	
9.03	Providing and fixing glazing in aluminium doors, windows, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per architectural drawings and the direction of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item.)					
	With float glass panes of 5.5 mm thickness.	6.00	Sqm	1054.20	6325	
				Rs	<b>16639</b>	
10	<b>ROOFING</b>					
10.01	Providing high impact Aluminium profile 8 mm thick sheets roofing up to any pitch and fixing with polymer coated J, or L hooks, bolts and nuts 8 mm dia. G.I. plain and bitumen washers or with self drilling fastener and EPDM washers etc. complete (excluding the cost of purlins, rafters and trusses), including cutting sheets to size and shape wherever required.	47.00	sqm	396.10	18617	

Item No.	Description of Item	Quantity	Unit	Rate Rs.	Amount Rs.	DSR 2014 -
10.02	Providing and fixing false ceiling with 12 mm thick plain/ semi perforated or with design ceiling tiles of BWP type phenol formaldehyde synthetic resin bonded pressed particle board conforming to IS:3087, finished with a coat of aluminium primer on both sides & edges, including two coats of synthetic enamel paint of approved quality on exposed face, fixed to a grid made out of anodised aluminium (with 15 micron anodic coating) T sections 35 x 15 x 1.5 mm size main runners, cross runners 23.5 x 19 x 1.5 mm fixed to main runners placed 600 mm centre to centre both ways so as to form a grid of 600 mm square. The frame work shall be suspended from ceiling by level adjusting hangers of 6 mm dia M.S rod fixed to roof slab by means of ceiling cleats and dash fastener. The suspenders shall be placed 600 x 1200 mm centre to centre including fixing to the frame with C.P brass screws and applying a priming coat of zinc chromate yellow primer (aluminium frame work shall be paid separately).	25.00	sqm	650.15	16254	
				Rs	<b>34870</b>	
<b>11.00</b>	<b>WATER SUPPLY</b>					
11.01	Providing and fixing white vitreous china pedestal type water closet (European type W.C. Pan) with seat and lid, 10 litre low level white P.V.C flushing cistern, including flush pipe, with manually controlled device, (handle lever) conforming to IS:7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:					
	W.C pan with ISI marked white solid plastic seat and lid	1.00	each	3,317.30	3317	
11.02	Providing and fixing wash basin with C.I, brackets, 15mm C.P brass pillar taps, 32mm C.P brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required:					
	White Vitreous china wash basin size 630x450mm with a pair of 15mm C.P. brass pillar taps	1.00	each	2,331.15	2331	
11.03	Providing and fixing china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings	1.00	each	979.95	980	

Item No.	Description of Item	Quantity	Unit	Rate Rs.	Amount Rs.	DSR 2014 -
11.04	Providing and fixing P.V.C door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet, mitred at corners and joined with 2 nos of 150mm long brackets of 15x15mm MS square tube, the vertical door frame profiles to be reinforced with 19x19mm M.S square tube of 19 guage, EPDM rubber gasket weather seal to be provided throughout the frame.The door frame to be fixed to the wall using M.S screws of 65/100mm size ,complete as per manufacturer's specification and direction of Engineer-in-charge	6.00	metre	458.95	2754	
11.05	Providing and fixing P.V.C door shutter consisting of frame made out of M.S tubes of 19 guage thickness and size of 19mmx19mm for styles and 15x15mm for top and bottom rails.M.S frame shall have a coat of steel primers of approved make and manufacture M.S frame covered with 5mm thick heat moulded PVC C channel of size 30mm thickness70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5 mm thick, 95 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mm x 2 ) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail, paneling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded/ sealed to the styles & rails with 7 mm (5 mm+2 mm) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5 mm 30mm thick plain PVC door shutters	2.00	sqm	2,749.60	5499	
					<b>14881</b>	
<b>12.00</b>	<b>WATER PROOFING</b>					
12.01	Providing and laying integral cement based treatment for water proofing on horizontal surface at all levels as directed by Engineer-in-charge and consisting of :					

Item No.	Description of Item	Quantity	Unit	Rate Rs.	Amount Rs.	DSR 2014 -
	(i) 1st layer of 22mm to 25mm thick approved and specified rough stone slab over 25mm thick base of cement mortar 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound conforming to IS : 2645 in the recommended proportion, joints sealed with cement slurry mixed with water proofing compound.					
	(ii) 2nd layer of 25mm thick cement mortar 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportions.					
	(iii) Finishing top with stone aggregate of 10mm to 12 mm nominal size spreading @ 8 cudm / sqm thoroughly embedded in the 2nd layer.					
	Using rough kota stone	3.00	sqm	1022.45	3067	
12.02	Providing and laying integral cement based treatment for water proofing on the vertical surface by fixing specified stone slab 22mm to 25mm thick with cement slurry mixed with water proofing compound conforming to IS 2645 in recommended proportions with a gap of 20mm (minimum) between stone slab and the receiving surfaces and filling the gaps with cement slurry mixed with water proofing compound and finishing the exterior of stone slab with cement mortar 1:4 (1 cement : 4 coarse sand) 20mm thick with neat cement punning mixed with water proofing compound in recommended proportions complete at all levels as directed by Engineer-in-charge.					
	Using rough kota stone	16.00	sqm	1,243.25	19892	
				Rs	<b>22959</b>	
	<b>Total</b>				<b>371686</b>	
	<b>Add for rise in cost index</b>				<b>155736</b>	
	<b>Grand Total</b>				<b>527422</b>	

**SCHEDULE OF QUANTITIES**

**3. Name of work: BHRIS Centre & Office , Agro Park**

Item No.	Description of Item	Quantity	Unit	Rate Rs.	Amount Rs.	DSR 2014 -
<b>1.00</b>	<b>EARTH WORK</b>					
1.01	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (not exceeding 1.5m in width as well as 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5m; including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50m					
	a) All kinds of soil	12.00	Cum	157.50	1890	
1.02	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering lead upto 50 m and lift upto 1.5 m.	15.00	Cum	112.40	1686	
1.03	Supplying and filling in plinth with jamuna sand under floors including, watering, ramming consolidating and dressing complete.	6.00	Cum	910.25	5462	
				<b>Rs</b>	<b>9038</b>	
<b>2.00</b>	<b>CONCRETE WORK</b>					
2.01	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level.					
2.01.1	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size)	2.00	Cum	4301.15	8602	
2.01.2	1:5:10 (1 Cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	6.00	Cum	4004.00	24024	
2.02	Providing and laying damp-proof course 40 mm thick with cement concrete 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 12.5mm nominal size).	4.00	Sqm	257.80	1031	
2.03	Extra for providing and mixing water proofing material in cement concrete work @ 1 kg per 50 kg of cement	2.00	Per 50 kg cement	48.15	96	
2.04	Applying a coat of residual petroleum bitumen of penetration 80/100 of approved quality using 1.7 kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	4.00	Sqm	132.00	528	



Item No.	Description of Item	Quantity	Unit	Rate Rs.	Amount Rs.	DSR 2014 -
2.05	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size) over 75mm bed of dry brick ballast 40mm nominal size well rammed and consolidated and grouted with fine sand including finishing the top smooth.	12.00	Sqm	419.00	5032	
<b>Total Cement Concrete work :</b>				<b>Rs</b>	<b>39313</b>	
<b>3.00</b>	<b>R.C.C. WORK</b>					
3.01	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :					
	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	8.00	Cum	5725.90	45807	
3.02	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:2:4 (1cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	1.00	Cum	7014.55	7015	
3.03	Steel reinforcement for R.C.C work including straighteneing,cutting, bending,placing in position and binding all complete upto plinth level					
	Thermo-Mechanically Treated bars	560.00	Kg	68.10	38136	
3.04	Steel reinforcement for R.C.C work including straighteneing,cutting, bending,placing in position and binding all complete above plinth level					
	Thermo-Mechanically Treated bars	70.00	Kg	68.10	4767	
3.05	Centering and shuttering including strutting, propping etc. and removal of form for :					
3.05.1	Foundation, footing, bases of columns etc. for mass concrete	22.00	Sqm	196.45	4322	
3.05.2	Lintels, beams, plinth beams, girders, bressumers and cantilevers	51.00	Sqm	332.15	16940	
3.05.3	Columns, Pillars, Piers, Abutments, Posts and struts.	2.00	Sqm	453.35	907	
<b>Total R.C.C. Work :</b>				<b>Rs</b>	<b>117893</b>	
<b>4.00</b>	<b>HOLLOW BLOCK MASONRY</b>					

Item No.	Description of Item	Quantity	Unit	Rate Rs.	Amount Rs.	DSR 2014 -
4.01	Providing and fixing up to floor five level precast cement concrete hollow block, including hoisting and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering, shuttering complete.					
	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	10.00	cum	6838.20	68382	
				<b>Rs</b>	<b>68382</b>	
<b>5.00</b>	<b>STONE WORK</b>					
5.01	Random Rubble Masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12(1 cement :6 coarse sand:12 graded stone aggregate 20mm nominal size )upto plinth level with					
	cement mortar1:6(1 cement:6 coarse sand)	4.00	cum	3918.10	15672	
				<b>Rs</b>	<b>15672</b>	
<b>6.00</b>	<b>STEEL WORK</b>					
6.01	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete	1620.00	kg	73.95	119799	
	<b>Total Steel Work :</b>			<b>Rs</b>	<b>119799</b>	
<b>7.00</b>	<b>FLOORING</b>					
7.01	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption's less than 0.08% and conforming to IS : 15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc., complete.					
	Size of Tile 600x600 mm	66.00	sqm	1405.95	92793	
	<b>Total Flooring Work :</b>			<b>Rs</b>	<b>92793</b>	
<b>8.00</b>	<b>FINISHING</b>					
8.01	12 mm cement plaster of mix : 1:6 (1 cement : 6 fine sand)	88.00	Sqm	149.45	13152	
8.02	15 mm cement plaster on rough side of single or half brick wall of mix : 1:6 (1 cement : 6 fine sand)	75.00	Sqm	17.80	12960	
8.03	White washing with lime to give an even shade: New work (three or more coats)	163.00	sqm	16.20	2641	

Item No.	Description of Item	Quantity	Unit	Rate Rs.	Amount Rs.	DSR 2014 -
8.04	Distempering with dry distemper of approved brand and manufacture (two or more coats) of required shade on new work, over and including water thinnable priming coat to give an even shade.	88.00	Sqm	68.60	6037	
8.05	Finishing walls with water proofing cement paint of required shade :					
	New work (Two or more coats applied @ 3.84 kg/10 sqm	75.00	Sqm	57.85	4339	
	Total Finishing Work :			<b>Rs</b>	<b>39128</b>	
<b>9</b>	<b>ALUMINIUM WORK</b>					
9.01	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections / appropriate Z sections and other sections of approved make conforming to IS 733 and IS 1285, fixing with dash fasteners of required dia and size, including necessary filling up of gaps at junctions, at top, bottoms and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and directions of Engineer-in-charge. (Glazing ,panelling and dash fasteners to be paid for separately).					
	For fixed portion					
	Powder coated aluminium (minimum thickness of powder coating 50 micron).	31.00	Kg	377.75	11710	
9.02	For shutter of door, windows & ventilators including providing and fixing hinges / pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately).					
	Powder coated aluminium (minimum thickness of powder coating 50 micron).	31.00	Kg	435.75	13508	
9.03	Providing and fixing glazing in aluminium doors, windows, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per architectural drawings and the direction of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item.)					

Item No.	Description of Item	Quantity	Unit	Rate Rs.	Amount Rs.	DSR 2014 -
	With float glass panes of 5.5 mm thickness.	28.00	Sqm	1054.20	29518	
				Rs	<b>54736</b>	
10	<b>ROOFING</b>					
10.01	Providing high impact Aluminium profile 8 mm thick sheets roofing up to any pitch and fixing with polymer coated J, or L hooks, bolts and nuts 8 mm dia. G.I. plain and bitumen washers or with self drilling fastener and EPDM washers etc. complete (excluding the cost of purlins, rafters and trusses), including cutting sheets to size and shape wherever required.	83.00	sqm	396.10	32876	
10.02	Providing and fixing false ceiling with 12 mm thick plain/ semi perforated or with design ceiling tiles of BWP type phenol formaldehyde synthetic resin bonded pressed particle board conforming to IS:3087, finished with a coat of aluminium primer on both sides & edges, including two coats of synthetic enamel paint of approved quality on exposed face, fixed to a grid made out of anodised aluminium (with 15 micron anodic coating) T sections 35 x 15 x 1.5 mm size main runners, cross runners 23.5 x 19 x 1.5 mm fixed to main runners placed 600 mm centre to centre both ways so as to form a grid of 600 mm square. The frame work shall be suspended from ceiling by level adjusting hangers of 6 mm dia M.S rod fixed to roof slab by means of ceiling cleats and dash fastener. The suspenders shall be placed 600 x 1200 mm centre to centre including fixing to the frame with C.P brass screws and applying a priming coat of zinc chromate yellow primer (aluminium frame work shall be paid separately).	60.00	sqm	650.15	39009	
				Rs	<b>71886.00</b>	
	<b>Total</b>				<b>628640.00</b>	
	<b>Add for rise in cost index</b>				<b>263400</b>	
	<b>Grand Total</b>				<b>892040.00</b>	

**SCHEDULE OF QUANTITIES**

**4.Name of work:NURSERY , Agro Park**

<b>Item No.</b>	<b>Description of Item</b>	<b>Quantity</b>	<b>Unit</b>	<b>Rate Rs.</b>	<b>Amount Rs.</b>	<b>DSR 2014 -</b>
<b>1.00</b>	<b>EARTH WORK</b>					
1.01	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (not exceeding 1.5m in width as well as 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5m; including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50m					
	a) All kinds of soil	6.00	Cum	157.50	945	
1.02	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering lead upto 50 m and lift upto 1.5 m.	8.00	Cum	112.40	899	
1.03	Supplying and filling in plinth with jamuna sand under floors including, watering, ramming consolidating and dressing complete.	3.00	Cum	910.25	2731	
				<b>Rs</b>	<b>4575</b>	
<b>2.00</b>	<b>CONCRETE WORK</b>					
2.01	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level.					
2.01.1	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size)	1.00	Cum	4301.15	4301	
2.01.2	1:5:10 (1 Cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	5.00	Cum	4004.00	20020	
2.02	Providing and laying damp-proof course 40 mm thick with cement concrete 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 12.5mm nominal size).	2.00	Sqm	257.80	516	
2.03	Extra for providing and mixing water proofing material in cement concrete work @ 1 kg per 50 kg of cement	1.00	Per 50 kg cement	48.15	48	
2.04	Applying a coat of residual petroleum bitumen of penetration 80/100 of approved quality using 1.7 kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	2.00	Sqm	132.00	264	

Item No.	Description of Item	Quantity	Unit	Rate Rs.	Amount Rs.	DSR 2014 -
2.05	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size) over 75mm bed of dry brick ballast 40mm nominal size well rammed and consolidated and grouted with fine sand including finishing the top smooth.	14.00	Sqm	419.30	5870	
<b>Total Cement Concrete work :</b>				<b>Rs</b>	<b>31019</b>	
<b>3.00</b>	<b>R.C.C. WORK</b>					
3.01	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :					
	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	4.00	Cum	5725.90	22904	
3.02	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:2:4 (1cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	1.00	Cum	7014.55	7015	
3.03	Steel reinforcement for R.C.C work including straighteneing, cutting, bending, placing in position and binding all complete upto plinth level					
	Thermo-Mechanically Treated bars	280.00	Kg	68.10	19068	
3.04	Steel reinforcement for R.C.C work including straighteneing, cutting, bending, placing in position and binding all complete above plinth level					
	Thermo-Mechanically Treated bars	70.00	Kg	68.10	4767	
3.05	Centering and shuttering including strutting, propping etc. and removal of form for :					
3.05.1	Foundation, footing, bases of columns etc. for mass concrete	10.00	Sqm	196.45	1965	
3.05.2	Lintels, beams, plinth beams, girders, bressumers and cantilevers	23.00	Sqm	332.15	7639	
3.05.3	Columns, Pillars, Piers, Abutments, Posts and struts.	1.00	Sqm	453.35	453	
<b>Total R.C.C. Work :</b>				<b>Rs</b>	<b>63811</b>	
<b>4.00</b>	<b>HOLLOW BLOCK MASONRY</b>					

Item No.	Description of Item	Quantity	Unit	Rate Rs.	Amount Rs.	DSR 2014 -
4.01	Providing and fixing up to floor five level precast cement concrete hollow block, including hoisting and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering, shuttering complete.					
	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	8.00	cum	6838.20	54706	
				Rs	<b>54706</b>	
<b>5.00</b>	<b>STONE WORK</b>					
5.01	Random Rubble Masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12(1 cement :6 coarse sand:12 graded stone aggregate 20mm nominal size )upto plinth level with					
	cement mortar1:6(1 cement:6 coarse sand)	2.00	cum	3918.10	7836	
				Rs	<b>7836</b>	
<b>6.00</b>	<b>STEEL WORK</b>					
6.01	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete	690.00	kg	73.95	51026	
	<b>Total Steel Work :</b>			Rs	<b>51026</b>	
<b>7.00</b>	<b>FLOORING</b>					
7.01	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption's less than 0.08% and conforming to IS : 15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc., complete.					
	Size of Tile 600x600 mm	26.00	sqm	1405.95	36555	
	<b>Total Flooring Work :</b>			Rs	<b>36555</b>	
<b>8.00</b>	<b>FINISHING</b>					
8.01	12 mm cement plaster of mix : 1:6 (1 cement : 6 fine sand)	70.00	Sqm	149.45	10462	
8.02	15 mm cement plaster on rough side of single or half brick wall of mix : 1:6 (1 cement : 6 fine sand)	59.00	Sqm	172.80	10195	
8.03	White washing with lime to give an even shade: New work (three or more coats)	129.00	sqm	16.20	2090	

Item No.	Description of Item	Quantity	Unit	Rate Rs.	Amount Rs.	DSR 2014 -
8.04	Distemping with dry distemper of approved brand and manufacture (two or more coats) of required shade on new work, over and including water thinnable priming coat to give an even shade.	70.00	Sqm	68.60	4802	
8.05	Finishing walls with water proofing cement paint of required shade :					
	New work (Two or more coats applied @ 3.84 kg/10 sqm	59.00	Sqm	57.85	3413	
	Total Finishing Work :			<b>Rs</b>	<b>30962</b>	
<b>9</b>	<b>ALUMINIUM WORK</b>					
9.01	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections / appropriate Z sections and other sections of approved make conforming to IS 733 and IS 1285, fixing with dash fasteners of required dia and size, including necessary filling up of gaps at junctions, at top, bottoms and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and directions of Engineer-in-charge. (Glazing ,panelling and dash fasteners to be paid for separately).					
	For fixed portion					
	Powder coated aluminium (minimum thickness of powder coating 50 micron).	11.00	Kg	377.75	4155	
9.02	For shutter of door, windows & ventilators including providing and fixing hinges / pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately).					
	Powder coated aluminium (minimum thickness of powder coating 50 micron).	20.00	Kg	435.75	8715	
9.03	Providing and fixing glazing in aluminium doors, windows, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per architectural drawings and the direction of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item.)					



Item No.	Description of Item	Quantity	Unit	Rate Rs.	Amount Rs.	DSR 2014 -
	With float glass panes of 5.5 mm thickness.	7.00	Sqm	1054.20	7379	
				Rs	<b>20250</b>	
10	<b>ROOFING</b>					
<b>10.01</b>	Providing high impact Aluminium profile 8 mm thick sheets roofing up to any pitch and fixing with polymer coated J, or L hooks, bolts and nuts 8 mm dia. G.I. plain and bitumen washers or with self drilling fastener and EPDM washers etc. complete (excluding the cost of purlins, rafters and trusses), including cutting sheets to size and shape wherever required.	46.00	sqm	396.10	18221	
				Rs	<b>18221</b>	
	Total				<b>318961</b>	
	Add for rise in cost index				<b>133645</b>	
	Grand Total				<b>452606</b>	

**SCHEDULE OF QUANTITIES**

**5.Name of work:Agro Super Bazaar, Agro Park**

<b>Item No.</b>	<b>Description of Item</b>	<b>Quantity</b>	<b>Unit</b>	<b>Rate Rs.</b>	<b>Amount Rs.</b>	<b>DSR 2014 -</b>
<b>1.00</b>	<b>EARTH WORK</b>					
1.01	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (not exceeding 1.5m in width as well as 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5m; including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50m					
	a) All kinds of soil	17.00	Cum	157.50	2678	
1.02	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering lead upto 50 m and lift upto 1.5 m.	39.00	Cum	112.40	4384	
1.03	Supplying and filling in plinth with jamuna sand under floors including, watering, ramming consolidating and dressing complete.	16.00	Cum	910.25	14564	
					<b>21625</b>	
<b>2.00</b>	<b>CONCRETE WORK</b>					
2.01	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level.					
2.01.1	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size)	2.00	Cum	4301.15	8602	
2.01.2	1:5:10 (1 Cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	16.00	Cum	4004.00	64064	
2.02	Providing and laying damp-proof course 40 mm thick with cement concrete 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 12.5mm nominal size).	5.50	Sqm	5257.80	1418	
2.03	Extra for providing and mixing water proofing material in cement concrete work @ 1 kg per 50 kg of cement	2.00	Per 50 kg cement	48.15	96	
2.04	Applying a coat of residual petroleum bitumen of penetration 80/100 of approved quality using 1.7 kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	5.50	Sqm	132.00	726	

Item No.	Description of Item	Quantity	Unit	Rate Rs.	Amount Rs.	DSR 2014 -
2.05	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size) over 75mm bed of dry brick ballast 40mm nominal size well rammed and consolidated and grouted with fine sand including finishing the top smooth.	34.00	Sqm	419.30	14256	
<b>Total Cement Concrete work :</b>				<b>Rs</b>	<b>89163</b>	
<b>3.00</b>	<b>R.C.C. WORK</b>					
3.01	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :					
	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	14.00	Cum	5725.90	80163	
3.02	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:2:4 (1cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	1.00	Cum	7014.55	7015	
3.03	Steel reinforcement for R.C.C work including straighteneing, cutting, bending, placing in position and binding all complete upto plinth level					
	Thermo-Mechanically Treated bars	980.00	Kg	68.10	66738	
3.04	Steel reinforcement for R.C.C work including straighteneing, cutting, bending, placing in position and binding all complete above plinth level					
	Thermo-Mechanically Treated bars	70.00	Kg	68.10	4767	
3.05	Centering and shuttering including strutting, propping etc. and removal of form for :					
3.05.1	Foundation, footing, bases of columns etc. for mass concrete	33.00	Sqm	196.45	6483	
3.05.2	Lintels, beams, plinth beams, girders, bressumers and cantilevers	147.00	Sqm	332.15	48826	
3.05.3	Columns, Pillars, Piers, Abutments, Posts and struts.	2.00	Sqm	453.35	907	
<b>Total R.C.C. Work :</b>				<b>Rs</b>	<b>214899</b>	
<b>4.00</b>	<b>HOLLOW BLOCK MASONRY</b>					

Item No.	Description of Item	Quantity	Unit	Rate Rs.	Amount Rs.	DSR 2014 -
4.01	Providing and fixing up to floor five level precast cement concrete hollow block, including hoisting and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering, shuttering complete.					
	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	11.00	cum	6838.20	75220	
				<b>Rs</b>	<b>75220</b>	
<b>5.00</b>	<b>STONE WORK</b>					
5.01	Random Rubble Masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12(1 cement :6 coarse sand:12 graded stone aggregate 20mm nominal size )upto plinth level with					
	cement mortar1:6(1 cement:6 coarse sand)	5.00	cum	3918.10	19591	
				<b>Rs</b>	<b>19591</b>	
<b>6.00</b>	<b>STEEL WORK</b>					
6.01	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete	3705.00	kg	73.95	273985	
	<b>Total Steel Work :</b>			<b>Rs</b>	<b>273985</b>	
<b>7.00</b>	<b>FLOORING</b>					
7.01	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption's less than 0.08% and conforming to IS : 15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc., complete.					
	Size of Tile 600x600 mm	170.00	sqm	1405.95	239012	
	<b>Total Flooring Work :</b>			<b>Rs</b>	<b>239012</b>	
<b>8.00</b>	<b>FINISHING</b>					
8.01	12 mm cement plaster of mix : 1:6 (1 cement : 6 fine sand)	122.00	Sqm	149.45	18233	
8.02	15 mm cement plaster on rough side of single or half brick wall of mix : 1:6 (1 cement : 6 fine sand)	114.00	Sqm	172.80	19699	
8.03	White washing with lime to give an even shade: New work (three or more coats)	236.00	sqm	16.20	3823	
8.04	Distempering with dry distemper of approved brand and manufacture (two or more coats) of required shade on	122.00	Sqm	68.60	8369	
8.05	Finishing walls with water proofing cement paint of required shade :					

Item No.	Description of Item	Quantity	Unit	Rate Rs.	Amount Rs.	DSR 2014 -
	New work (Two or more coats applied @ 3.84 kg/10 sqm	114.00	Sqm	57.85	6595	
	Total Finishing Work :			Rs	<b>56719</b>	
<b>9</b>	<b>ALUMINIUM WORK</b>					
9.01	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections / appropriate Z sections and other sections of approved make conforming to IS 733 and IS 1285, fixing with dash fasteners of required dia and size, including necessary filling up of gaps at junctions, at top, bottoms and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and directions of Engineer-in-charge. (Glazing ,panelling and dash fasteners to be paid for separately).					
	For fixed portion					
	Powder coated aluminium (minimum thickness of powder coating 50 micron).	37.00	Kg	377.15	13977	
9.02	For shutter of door, windows & ventilators including providing and fixing hinges / pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately).					
	Powder coated aluminium (minimum thickness of powder coating 50 micron).	43.00	Kg	435.75	18737	
9.03	Providing and fixing glazing in aluminium doors, windows, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per architectural drawings and the direction of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item.)					
	With float glass panes of 5.5 mm thickness.	32.00	Sqm	1054.00	33734	
				Rs	<b>66448</b>	
<b>10</b>	<b>ROOFING</b>					

Item No.	Description of Item	Quantity	Unit	Rate Rs.	Amount Rs.	DSR 2014 -
10.01	Providing high impact Aluminium profile 8 mm thick sheets roofing up to any pitch and fixing with polymer coated J, or L hooks, bolts and nuts 8 mm dia. G.I. plain and bitumen washers or with self drilling fastener and EPDM washers etc. complete (excluding the cost of purlins, rafters and trusses), including cutting sheets to size and shape wherever required.	253.00	sqm	396.10	100213	
				Rs	<b>100213</b>	
	<b>Total</b>				<b>1156875</b>	
	<b>Add for Rise in Cost index</b>				<b>484730</b>	
	<b>Grand Total</b>				<b>1641605</b>	

**SCHEDULE OF QUANTITIES**

**6.Name of work:Retail Outlets, Agro Park**

<b>Item No.</b>	<b>Description of Item</b>	<b>Quantity</b>	<b>Unit</b>	<b>Rate Rs.</b>	<b>Amount Rs.</b>	<b>DSR 2014 -</b>
<b>1.00</b>	<b>EARTH WORK</b>					
1.01	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (not exceeding 1.5m in width as well as 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5m; including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50m					
	a) All kinds of soil	31.00	Cum	157.50	4883	
1.02	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering lead upto 50 m and lift upto 1.5 m.	42.00	Cum	112.40	4721	
1.03	Supplying and filling in plinth with jamuna sand under floors including, watering, ramming consolidating and dressing complete.	17.00	Cum	910.25	15474	
				<b>Rs</b>	<b>25078</b>	
<b>2.00</b>	<b>CONCRETE WORK</b>					
2.01	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level.					
2.01.1	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size)	4.00	Cum	4301.15	17205	
2.01.2	1:5:10 (1 Cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	17.00	Cum	4004.00	68068	
2.03	Providing and laying damp-proof course 40 mm thick with cement concrete 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 12.5mm nominal size).	10.00	Sqm	257.80	2578	
2.04	Extra for providing and mixing water proofing material in cement concrete work @ 1 kg per 50 kg of cement	3.00	Per 50 kg cement	48.15	144	
2.05	Applying a coat of residual petroleum bitumen of penetration 80/100 of approved quality using 1.7 kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	10.00	Sqm	132.00	586	

Item No.	Description of Item	Quantity	Unit	Rate Rs.	Amount Rs.	DSR 2014 -
2.06	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size) over 75mm bed of dry brick ballast 40mm nominal size well rammed and consolidated and grouted with fine sand including finishing the top smooth.	57.00	Sqm	419.30	23900	
<b>Total Cement Concrete work :</b>				<b>Rs</b>	<b>113215</b>	
<b>3.00</b>	<b>R.C.C. WORK</b>					
3.01	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :					
	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	21.00	Cum	5725.90	120244	
3.02	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:2:4 (1cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	1.00	Cum	7014.55	7015	
3.03	Steel reinforcement for R.C.C work including straighteneing, cutting, bending, placing in position and binding all complete upto plinth level					
	Thermo-Mechanically Treated bars	1470.00	Kg	68.10	100107	
3.04	Steel reinforcement for R.C.C work including straighteneing, cutting, bending, placing in position and binding all complete above plinth level					
	Thermo-Mechanically Treated bars	70.00	Kg	68.10	4767	
3.05	Centering and shuttering including strutting, propping etc. and removal of form for :					
3.05.1	Foundation, footing, bases of columns etc. for mass concrete	57.00	Sqm	196.45	11198	
3.05.2	Lintels, beams, plinth beams, girders, bressumers and cantilevers	133.00	Sqm	332.15	44176	
3.05.3	Columns, Pillars, Piers, Abutments, Posts and struts.	5.00	Sqm	453.35	2267	
<b>Total R.C.C. Work :</b>				<b>Rs</b>	<b>289773</b>	
<b>4.00</b>	<b>HOLLOW BLOCK MASONRY</b>					



Item No.	Description of Item	Quantity	Unit	Rate Rs.	Amount Rs.	DSR 2014 -
4.01	Providing and fixing up to floor five level precast cement concrete hollow block, including hoisting and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering, shuttering complete.					
	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	30.00	cum	6838.20	205146	
				<b>Rs</b>	<b>205146</b>	
<b>5.00</b>	<b>STONE WORK</b>					
5.01	Random Rubble Masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12(1 cement :6 coarse sand:12 graded stone aggregate 20mm nominal size )upto plinth level with					
	cement mortar1:6(1 cement:6 coarse sand)	17.00	cum	3918.10	66608	
				<b>Rs</b>	<b>66608</b>	
<b>6.00</b>	<b>STEEL WORK</b>					
6.01	Structural steel work riveted, bolted or welded in built up sections,trusses and framed work,including cutting,hoisting,fixing in position and applying a priming coat of approved steel primer all complete	4335.00	kg	73.95	320573	
6.02	Steel work welded in built-up sections or framed work including cutting, hoisting,fixing in position and applying a priming coat of approved steel primer using structuralsteel etc as required					
	a) In gratings, frames, guard bar, ladders, railing, brackets, gates & similar works.	216.00	kg	90.10	19462	
	<b>Total Steel Work :</b>			<b>Rs</b>	<b>340035</b>	
<b>7.00</b>	<b>FLOORING</b>					
7.01	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption's less than 0.08% and conforming to IS : 15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc., complete.					
	Size of Tile 600x600 mm	186.00	sqm	1405.95	261507	
	<b>Total Flooring Work :</b>			<b>Rs</b>	<b>261507</b>	
<b>8.00</b>	<b>FINISHING</b>					
8.01	12 mm cement plaster of mix :					
	1:6 (1 cement : 6 fine sand)	332.00	Sqm	149.45	49617	
8.02	15 mm cement plaster on rough side of single or half brick wall of mix :					

Item No.	Description of Item	Quantity	Unit	Rate Rs.	Amount Rs.	DSR 2014 -
	1:6 (1 cement : 6 fine sand)	213.00	Sqm	172.80	36806	
8.03	White washing with lime to give an even shade:					
	New work (three or more coats)	545.00	sqm	16.20	8829	
8.06	Distempering with dry distemper of approved brand and manufacture (two or more coats) of required shade on					
	New work (two or more coats) over and including priming coat with cement primer.	332.00	Sqm	68.60	22775	
8.07	Finishing walls with water proofing cement paint of required shade :					
	New work (Two or more coats applied @ 3.84 kg/10 sqm	213.00	Sqm	57.85	12322	
	Total Finishing Work :			<b>Rs</b>	<b>130350</b>	
<b>9</b>	<b>ALUMINIUM WORK</b>					
9.01	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections / appropriate Z sections and other sections of approved make conforming to IS 733 and IS 1285, fixing with dash fasteners of required dia and size, including necessary filling up of gaps at junctions, at top, bottoms and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and directions of Engineer-in-charge. (Glazing ,panelling and dash fasteners to be paid for separately).					
	For fixed portion					
	Powder coated aluminium (minimum thickness of powder coating 50 micron).	230.00	Kg	377.75	86883	
9.02	For shutter of door, windows & ventilators including providing and fixing hinges / pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately).					
	Powder coated aluminium (minimum thickness of powder coating 50 micron).	373.00	Kg	435.75	162535	

Item No.	Description of Item	Quantity	Unit	Rate Rs.	Amount Rs.	DSR 2014 -
9.03	Providing and fixing glazing in aluminium doors, windows, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per architectural drawings and the direction of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item.)					
	With float glass panes of 5.5 mm thickness.	50.00	Sqm	1054.20	52710	
				Rs	<b>302127</b>	
10	<b>ROOFING</b>					
10.01	Providing high impact Aluminium profile 8 mm thick sheets roofing up to any pitch and fixing with polymer coated J, or L hooks, bolts and nuts 8 mm dia. G.I. plain and bitumen washers or with self drilling fastener and EPDM washers etc. complete (excluding the cost of purlins, rafters and trusses), including cutting sheets to size and shape wherever required.	289.00	sqm	396.10	114473	
10.02	Providing and fixing false ceiling with 12 mm thick plain/ semi perforated or with design ceiling tiles of BWP type phenol formaldehyde synthetic resin bonded pressed particle board conforming to IS:3087, finished with a coat of aluminium primer on both sides & edges, including two coats of synthetic enamel paint of approved quality on exposed face, fixed to a grid made out of anodised aluminium (with 15 micron anodic coating) T sections 35 x 15 x 1.5 mm size main runners, cross runners 23.5 x 19 x 1.5 mm fixed to main runners placed 600 mm centre to centre both ways so as to form a grid of 600 mm square. The frame work shall be suspended from ceiling by level adjusting hangers of 6 mm dia M.S rod fixed to roof slab by means of ceiling cleats and dash fastener. The suspenders shall be placed 600 x 1200 mm centre to centre including fixing to the frame with C.P brass screws and applying a priming coat of zinc chromate yellow primer (aluminium frame work shall be paid separately).	159.00	sqm	650.15	103374	
				Rs	<b>217847</b>	
	<b>Total</b>				<b>1951686</b>	
	<b>Add for rise in cost index</b>				<b>817756</b>	
	<b>Grand Total</b>				<b>2769442</b>	

**SCHEDULE OF QUANTITIES**

**7.Name of work:Training Centre, Agro Park**

Item No.	Description of Item	Quantity	Unit	Rate Rs.	Amount Rs.	DSR 2014 -
<b>1.00</b>	<b>EARTH WORK</b>					
1.01	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (not exceeding 1.5m in width as well as 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5m; including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50m					
	a) All kinds of soil	8.00	Cum	157.50	1260	
1.02	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering lead upto 50 m and lift upto 1.5 m.	8.00	Cum	112.40	899	
1.03	Supplying and filling in plinth with jamuna sand under floors including, watering, ramming consolidating and dressing complete.	3.00	Cum	910.25	2731	
				<b>Rs</b>	<b>4890</b>	
<b>2.00</b>	<b>CONCRETE WORK</b>					
2.01	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level.					
2.01.1	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size)	1.00	Cum	4301.15	4301	
2.01.2	1:5:10 (1 Cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	3.00	Cum	4004.00	12012	
2.02	Providing and laying damp-proof course 40 mm thick with cement concrete 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 12.5mm nominal size).	2.00	Sqm	257.80	516	
2.03	Extra for providing and mixing water proofing material in cement concrete work @ 1 kg per 50 kg of cement	1.00	Per 50 kg cement	48.15	48	
2.04	Applying a coat of residual petroleum bitumen of penetration 80/100 of approved quality using 1.7 kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	2.00	Sqm	132.00	264	

Item No.	Description of Item	Quantity	Unit	Rate Rs.	Amount Rs.	DSR 2014 -
2.05	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size) over 75mm bed of dry brick ballast 40mm nominal size well rammed and consolidated and grouted with fine sand including finishing the top smooth.	15.00	Sqm	419.30	6290	
<b>Total Cement Concrete work :</b>				<b>Rs</b>	<b>23430</b>	
<b>3.00</b>	<b>R.C.C. WORK</b>					
3.01	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :					
	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	5.00	Cum	5725.90	28630	
3.02	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:2:4 (1cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	1.00	Cum	7014.55	7015	
3.03	Steel reinforcement for R.C.C work including straighteneing, cutting, bending, placing in position and binding all complete upto plinth level					
	Thermo-Mechanically Treated bars	350.00	Kg	68.10	23835	
3.04	Steel reinforcement for R.C.C work including straighteneing, cutting, bending, placing in position and binding all complete above plinth level					
	Thermo-Mechanically Treated bars	70.00	Kg	68.10	4767	
3.05	Centering and shuttering including strutting, propping etc. and removal of form for :					
3.05.1	Foundation, footing, bases of columns etc. for mass concrete	14.00	Sqm	196.45	2750	
3.05.2	Lintels, beams, plinth beams, girders, bressumers and cantilevers	26.00	Sqm	332.15	8636	
3.05.3	Columns, Pillars, Piers, Abutments, Posts and struts.	1.00	Sqm	453.35	453	
<b>Total R.C.C. Work :</b>				<b>Rs</b>	<b>76086</b>	
<b>4.00</b>	<b>HOLLOW BLOCK MASONRY</b>					

Item No.	Description of Item	Quantity	Unit	Rate Rs.	Amount Rs.	DSR 2014 -
4.01	Providing and fixing up to floor five level precast cement concrete hollow block, including hoisting and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering, shuttering complete.					
	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	7.00	cum	6838.20	47867	
				<b>Rs</b>	<b>47867</b>	
<b>5.00</b>	<b>STONE WORK</b>					
5.01	Random Rubble Masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12(1 cement :6 coarse sand:12 graded stone aggregate 20mm nominal size )upto plinth level with					
	cement mortar1:6(1 cement:6 coarse sand)	3.00	cum	3918.10	11754	
				<b>Rs</b>	<b>11754</b>	
<b>6.00</b>	<b>STEEL WORK</b>					
6.01	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete	900.00	kg	73.95	66555	
	<b>Total Steel Work :</b>			<b>Rs</b>	<b>66555</b>	
<b>7.00</b>	<b>FLOORING</b>					
7.01	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption's less than 0.08% and conforming to IS : 15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc., complete.					
	Size of Tile 600x600 mm	36.00	sqm	1405.95	50614	
	<b>Total Flooring Work :</b>			<b>Rs</b>	<b>50614</b>	
<b>8.00</b>	<b>FINISHING</b>					
8.01	12 mm cement plaster of mix : 1:6 (1 cement : 6 fine sand)	67.00	Sqm	149.45	10013	
8.02	15 mm cement plaster on rough side of single or half brick wall of mix : 1:6 (1 cement : 6 fine sand)	48.00	Sqm	172.80	8294	
8.03	White washing with lime to give an even shade: New work (three or more coats)	115.00	sqm	16.20	1863	

Item No.	Description of Item	Quantity	Unit	Rate Rs.	Amount Rs.	DSR 2014 -
8.04	Distempering with dry distemper of approved brand and manufacture (two or more coats) of required shade on new work, over and including water thinnable priming coat to give an even shade.	67.00	Sqm	68.60	4596	
8.05	Finishing walls with water proofing cement paint of required shade :					
	New work (Two or more coats applied @ 3.84 kg/10 sqm	48.00	Sqm	57.85	2777	
	Total Finishing Work :			<b>Rs</b>	<b>27544</b>	
<b>9</b>	<b>ALUMINIUM WORK</b>					
9.01	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections / appropriate Z sections and other sections of approved make conforming to IS 733 and IS 1285, fixing with dash fasteners of required dia and size, including necessary filling up of gaps at junctions, at top, bottoms and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and directions of Engineer-in-charge. (Glazing ,panelling and dash fasteners to be paid for separately).					
	For fixed portion					
	Powder coated aluminium (minimum thickness of powder coating 50 micron).	15.00	Kg	377.75	5666	
9.02	For shutter of door, windows & ventilators including providing and fixing hinges / pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately).					
	Powder coated aluminium (minimum thickness of powder coating 50 micron).	19.00	Kg	435.75	8279	
9.03	Providing and fixing glazing in aluminium doors, windows, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per architectural drawings and the direction of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item.)					

Item No.	Description of Item	Quantity	Unit	Rate Rs.	Amount Rs.	DSR 2014 -
	With float glass panes of 5.5 mm thickness.	13.00	Sqm	1054.20	13705	
				Rs	<b>27650</b>	
10	<b>ROOFING</b>					
10.01	Providing high impact Aluminium profile 8 mm thick sheets roofing up to any pitch and fixing with polymer coated J, or L hooks, bolts and nuts 8 mm dia. G.I. plain and bitumen washers or with self drilling fastener and EPDM washers etc. complete (excluding the cost of purlins, rafters and trusses), including cutting sheets to size and shape wherever required.	60.00	sqm	396.10	23766	
10.02	Providing and fixing false ceiling with 12 mm thick plain/ semi perforated or with design ceiling tiles of BWP type phenol formaldehyde synthetic resin bonded pressed particle board conforming to IS:3087, finished with a coat of aluminium primer on both sides & edges, including two coats of synthetic enamel paint of approved quality on exposed face, fixed to a grid made out of anodised aluminium (with 15 micron anodic coating) T sections 35 x 15 x 1.5 mm size main runners, cross runners 23.5 x 19 x 1.5 mm fixed to main runners placed 600 mm centre to centre both ways so as to form a grid of 600 mm square. The frame work shall be suspended from ceiling by level adjusting hangers of 6 mm dia M.S rod fixed to roof slab by means of ceiling cleats and dash fastener. The suspenders shall be placed 600 x 1200 mm centre to centre including fixing to the frame with C.P brass screws and applying a priming coat of zinc chromate yellow primer (aluminium frame work shall be paid separately).	34.00	sqm	650.15	22105	
				Rs	<b>45871</b>	
	<b>Total</b>				<b>382261</b>	
	<b>Add for Rise in cost index</b>				<b>160167</b>	
	<b>Grand Total</b>				<b>542428</b>	



<b>SCHEDULE OF QUANTITIES</b>						
<b>8.Name of work:Museum , Agro Park</b>						
<b>Item No.</b>	<b>Description of Item</b>	<b>Quantity</b>	<b>Unit</b>	<b>Rate Rs.</b>	<b>Amount Rs.</b>	<b>DSR 2014</b>
<b>1.00</b>	<b>EARTH WORK</b>					
1.01	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (not exceeding 1.5m in width as well as 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5m; including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50m					
	a) All kinds of soil	32.00	Cum	157.50	5040	
1.02	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering lead upto 50 m and lift upto 1.5 m.	45.00	Cum	112.40	5058	
1.03	Supplying and filling in plinth with jamuna sand under floors including, watering, ramming consolidating and dressing complete.	18.00	Cum	910.25	16385	
				<b>Rs</b>	<b>26483</b>	
<b>2.00</b>	<b>CONCRETE WORK</b>					
2.01	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level.					
2.01.1	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size)	4.00	Cum	4301.15	17205	
2.01.2	1:5:10 (1 Cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	18.00	Cum	4004.00	72072	
2.03	Providing and laying damp-proof course 40 mm thick with cement concrete 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 12.5mm nominal size).	6.00	Sqm	257.80	1547	
2.04	Extra for providing and mixing water proofing material in cement concrete work @ 1 kg per 50 kg of cement	2.00	Per 50 kg cement	48.15	96	
2.05	Applying a coat of residual petroleum bitumen of penetration 80/100 of approved quality using 1.7 kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	6.00	Sqm	132.00	792	
2.06	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size) over 75mm bed of dry brick ballast 40mm nominal size well rammed and consolidated and grouted with fine sand including finishing the top smooth.	35.00	Sqm	419.30	14676	
	<b>Total Cement Concrete work :</b>			<b>Rs</b>	<b>106388</b>	
<b>3.00</b>	<b>R.C.C. WORK</b>					
3.01	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :					

Item No.	Description of Item	Quantity	Unit	Rate Rs.	Amount Rs.	DSR 2014
	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	16.00	Cum	5725.90	91614	
3.02	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:2:4 (1cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	1.00	Cum	7014.55	7015	
3.03	Steel reinforcement for R.C.C work including straighteneing, cutting, bending, placing in position and binding all complete upto plinth level					
	Thermo-Mechanically Treated bars	1120.00	Kg	68.10	76272	
3.04	Steel reinforcement for R.C.C work including straighteneing, cutting, bending, placing in position and binding all complete above plinth level					
	Thermo-Mechanically Treated bars	70.00	Kg	68.10	4767	
3.05	Centering and shuttering including strutting, propping etc. and removal of form for :					
3.05.1	Foundation, footing, bases of columns etc. for mass concrete	22.00	Sqm	196.45	4322	
3.05.2	Lintels, beams, plinth beams, girders, bressumers and cantilevers	115.00	Sqm	332.15	39197	
3.05.4	Columns, Pillars, Piers, Abutments, Posts and struts.	5.00	Sqm	453.35	2267	
	<b>Total R.C.C. Work :</b>			<b>Rs</b>	<b>225454</b>	
<b>4.00</b>	<b>Laterite masonry</b>					
4.01	Providing and fixing up to floor five level laterite stone, including hoisting and setting in position with cement mortar 1:6 (1cement : 6coarse sand), cost of required centering, shuttering complete :					
	including all cost labour charge etc complete	53.00	cum	8785.80	465648	
				<b>Rs</b>	<b>465648</b>	
<b>5.00</b>	<b>STONE WORK</b>					
5.01	Random Rubble Masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12(1 cement :6 coarse sand:12 graded stone aggregate 20mm nominal size )upto plinth level with					
	cement mortar1:6(1 cement:6 coarse sand)	6.00	cum	3918.10	23509	
				<b>Rs</b>	<b>23509</b>	
<b>6.00</b>	<b>STEEL WORK</b>					
6.01	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete	3645.00	kg	73.95	269548	
				<b>Rs</b>	<b>269548</b>	
<b>7.00</b>	<b>FLOORING</b>					

Item No.	Description of Item	Quantity	Unit	Rate Rs.	Amount Rs.	DSR 2014
7.01	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption's less than 0.08% and conforming to IS : 15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc., complete.					
	Size of Tile 600x600 mm	192.00	sqm	1405.95	269942	
	<b>Total Flooring Work :</b>			<b>Rs</b>	<b>269942</b>	
<b>8.00</b>	<b>FINISHING</b>					
8.01	12 mm cement plaster of mix : 1:6 (1 cement : 6 fine sand)	264.00	Sqm	149.45	39455	
8.02	White washing with lime to give an even shade: New work (three or more coats)	264.00	sqm	16.20	4277	
8.03	Distemping with dry distemper of approved brand and manufacture (two or more coats) of required shade on new work, over and including water thinnable priming coat to give an even shade.					
		264.00	Sqm	68.60	18110	
	<b>Total Finishing Work :</b>			<b>Rs</b>	<b>61842</b>	
<b>9</b>	<b>ALUMINIUM WORK</b>					

Item No.	Description of Item	Quantity	Unit	Rate Rs.	Amount Rs.	DSR 2014
9.01	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections / appropriate Z sections and other sections of approved make conforming to IS 733 and IS 1285, fixing with dash fasteners of required dia and size, including necessary filling up of gaps at junctions, at top, bottoms and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and directions of Engineer-in-charge. (Glazing ,panelling and dash fasteners to be paid for separately).					
	For fixed portion					
	Powder coated aluminium (minimum thickness of powder coating 50 micron).	73.00	Kg	377.75	27576	
9.02	For shutter of door, windows & ventilators including providing and fixing hinges / pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately).					
	Powder coated aluminium (minimum thickness of powder coating 50 micron).	73.00	Kg	435.75	31810	
9.03	Providing and fixing glazing in aluminium doors, windows, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per architectural drawings and the direction of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item.)					
	With float glass panes of 5.5 mm thickness.	43.00	Sqm	1054.20	45331	
	Total Aluminium work			Rs	<b>104717</b>	
<b>10</b>	<b>Roofing</b>					
<b>10.01</b>	Providing high impact Aluminium profile 8 mm thick sheets roofing up to any pitch and fixing with polymer coated J, or L hooks, bolts and nuts 8 mm dia. G.I. plain and bitumen washers or with self drilling fastener and EPDM washers etc. complete (excluding the cost of purlins, rafters and trusses), including cutting sheets to size and shape wherever required.	243.00	sqm	396.10	96252	

Item No.	Description of Item	Quantity	Unit	Rate Rs.	Amount Rs.	DSR 2014
10.02	Providing and fixing false ceiling with 12 mm thick plain/ semi perforated or with design ceiling tiles of BWP type phenol formaldehyde synthetic resin bonded pressed particle board conforming to IS:3087, finished with a coat of aluminium primer on both sides & edges, including two coats of synthetic enamel paint of approved quality on exposed face, fixed to a grid made out of anodised aluminium (with 15 micron anodic coating) T sections 35 x 15 x 1.5 mm size main runners, cross runners 23.5 x 19 x 1.5 mm fixed to main runners placed 600 mm centre to centre both ways so as to form a grid of 600 mm square. The frame work shall be suspended from ceiling by level adjusting hangers of 6 mm dia M.S rod fixed to roof slab by means of ceiling cleats and dash fastener. The suspenders shall be placed 600 x 1200 mm centre to centre including fixing to the frame with C.P brass screws and applying a priming coat of zinc chromate yellow primer (aluminium frame work shall be paid separately).	180.00	sqm	650.15	117027	
				Rs	<b>213280</b>	
	<b>Total</b>				<b>1766811</b>	
	<b>Add for rise in cost index</b>				<b>740294</b>	
	<b>Grand total</b>				<b>2507105</b>	

**SCHEDULE OF QUANTITIES**

**9.Name of work:Canteen, Agro Park**

Item No.	Description of Item	Quantity	Unit	Rate Rs.	Amount Rs.	DSR 2014 -
<b>1.00</b>	<b>EARTH WORK</b>					
1.01	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (not exceeding 1.5m in width as well as 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5m; including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead					
	a) All kinds of soil	19.00	Cum	157.50	2993	
1.02	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering lead upto 50 m and lift upto 1.5 m.	26.00	Cum	112.40	2922	
1.03	Supplying and filling in plinth with jamuna sand under floors including, watering, ramming consolidating and dressing complete.	6.00	Cum	910.25	5462	
				<b>Rs</b>	<b>11376</b>	
<b>2.00</b>	<b>CONCRETE WORK</b>					
2.01	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level.					
2.01.1	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size)	2.00	Cum	4301.15	8602	
2.01.2	1:5:10 (1 Cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	12.00	Cum	4004.00	48048	
2.02	Providing and laying damp-proof course 40 mm thick with cement concrete 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 12.5mm nominal size).	9.00	Sqm	257.80	2320	
2.03	Extra for providing and mixing water proofing material in cement concrete work @ 1 kg per 50 kg of cement	3.00	Per 50 kg cement	48.15	144	
2.04	Applying a coat of residual petroleum bitumen of penetration 80/100 of approved quality using 1.7 kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	9.00	Sqm	132.00	1188	

Item No.	Description of Item	Quantity	Unit	Rate Rs.	Amount Rs.	DSR 2014 -
2.05	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size) over 75mm bed of dry brick ballast 40mm nominal size well rammed and consolidated and grouted with fine sand including finishing the top smooth.	31.00	Sqm	419.30	12998	
	<b>Total Cement Concrete work :</b>			<b>Rs</b>	<b>73300</b>	
<b>3.00</b>	<b>R.C.C. WORK</b>					
3.01	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :					
	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	13.00	Cum	5725.90	74437	
3.02	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:2:4 (1cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	1.00	Cum	7014.55	7015	
3.03	Steel reinforcement for R.C.C work including straighteneing,cutting, bending,placing in position and binding all complete upto plinth level					
	Thermo-Mechanically Treated bars	910.00	Kg	68.10	61971	
3.04	Steel reinforcement for R.C.C work including straighteneing,cutting, bending,placing in position and binding all complete above plinth level					
	Thermo-Mechanically Treated bars	70.00	Kg	68.10	4767	
3.05	Centering and shuttering including strutting, propping etc. and removal of form for :					
3.05.1	Foundation, footing, bases of columns etc. for mass concrete	26.00	Sqm	196.45	5108	
3.05.2	Lintels, beams, plinth beams, girders, bressumers and cantilevers	99.00	Sqm	332.15	32883	
3.05.3	Columns, Pillars, Piers, Abutments, Posts and struts.	3.00	Sqm	453.35	1360	
	<b>Total R.C.C. Work :</b>			<b>Rs</b>	<b>187541</b>	
<b>4.00</b>	<b>HOLLOW BLOCK MASONRY</b>					

Item No.	Description of Item	Quantity	Unit	Rate Rs.	Amount Rs.	DSR 2014 -
4.01	Providing and fixing up to floor five level precast cement concrete hollow block, including hoisting and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering, shuttering complete.					
	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	23.00	cum	6838.20	157279	
				<b>Rs</b>	<b>157279</b>	
<b>5.00</b>	<b><u>STONE WORK</u></b>					
5.01	Random Rubble Masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12(1 cement :6 coarse sand:12 graded stone aggregate 20mm nominal size )upto plinth level with					
	cement mortar1:6(1 cement:6 coarse sand)	3.50	cum	3918.10	13713	
				<b>Rs</b>	<b>13713</b>	
<b>6.00</b>	<b><u>STEEL WORK</u></b>					
6.01	Structural steel work riveted, bolted or welded in built up sections,trusses and framed work,including cutting,hoisting,fixing in position and applying a priming coat of approved steel primer all complete	2925.00	kg	73.95	216304	
	<b>Total Steel Work :</b>			<b>Rs</b>	<b>216304</b>	
<b>7.00</b>	<b><u>FLOORING</u></b>					
7.01	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption's less than 0.08% and conforming to IS : 15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc., complete.					
	Size of Tile 600x600 mm	92.00	sqm	1405.95	129347	
7.02	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey,Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4Coarse sand), including pointing the joints with white cement and matching pigment etc, complete.	32.00	sqm	785.40	25133	



Item No.	Description of Item	Quantity	Unit	Rate Rs.	Amount Rs.	DSR 2014 -
7.03	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS:15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12mm thick bed of cement mortar 1:3 (1 cement:3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete	81.00	sqm	836.65	67769	
	<b>Total Flooring Work :</b>			<b>Rs</b>	<b>222249</b>	
<b>8.00</b>	<b><u>FINISHING</u></b>					
8.01	12 mm cement plaster of mix : 1:6 (1 cement : 6 fine sand)	340.00	Sqm	149.45	50813	
8.02	15 mm cement plaster on rough side of single or half brick wall of mix : 1:6 (1 cement : 6 fine sand)	108.00	Sqm	172.80	18662	
8.03	White washing with lime to give an even shade: New work (three or more coats)	448.00	sqm	16.20	7258	
8.04	Distempering with dry distemper of approved brand and manufacture (two or more coats) of required shade on	340.00	Sqm	68.60	23324	
8.05	Finishing walls with water proofing cement paint of required shade : New work (Two or more coats applied @ 3.84 kg/10 sqm)	108.00	Sqm	57.85	6248	
	<b>Total Finishing Work :</b>				<b>106305</b>	
<b>9</b>	<b><u>ALUMINIUM WORK</u></b>					
9.01	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections / appropriate Z sections and other sections of approved make conforming to IS 733 and IS 1285, fixing with dash fasteners of required dia and size, including necessary filling up of gaps at junctions, at top, bottoms and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and directions of Engineer-in-charge. (Glazing, panelling and dash fasteners to be paid for separately).					
	For fixed portion					

Item No.	Description of Item	Quantity	Unit	Rate Rs.	Amount Rs.	DSR 2014 -
	Powder coated aluminium (minimum thickness of powder coating 50 micron).	72.00	Kg	377.75	27198	
9.02	For shutter of door, windows & ventilators including providing and fixing hinges / pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately).					
	Powder coated aluminium (minimum thickness of powder coating 50 micron).	72.00	Kg	435.75	31374	
9.03	Providing and fixing glazing in aluminium doors, windows, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per architectural drawings and the direction of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item.)					
	With float glass panes of 5.5 mm thickness.	28.00	Sqm	1054.20	29518	
				Rs	<b>88090</b>	
10	<b>ROOFING</b>					
10.01	Providing high impact Aluminium profile 8 mm thick sheets roofing up to any pitch and fixing with polymer coated J, or L hooks, bolts and nuts 8 mm dia. G.I. plain and bitumen washers or with self drilling fastener and EPDM washers etc. complete (excluding the cost of purlins, rafters and trusses), including cutting sheets to size and shape wherever required.	195.00	sqm	396.10	77240	

Item No.	Description of Item	Quantity	Unit	Rate Rs.	Amount Rs.	DSR 2014 -
10.02	Providing and fixing false ceiling with 12 mm thick plain/ semi perforated or with design ceiling tiles of BWP type phenol formaldehyde synthetic resin bonded pressed particle board conforming to IS:3087, finished with a coat of aluminium primer on both sides & edges, including two coats of synthetic enamel paint of approved quality on exposed face, fixed to a grid made out of anodised aluminium (with 15 micron anodic coating) T sections 35 x 15 x 1.5 mm size main runners, cross runners 23.5 x 19 x 1.5 mm fixed to main runners placed 600 mm centre to centre both ways so as to form a grid of 600 mm square. The frame work shall be suspended from ceiling by level adjusting hangers of 6 mm dia M.S rod fixed to roof slab by means of ceiling cleats and dash fastener. The suspenders shall be placed 600 x 1200 mm centre to centre including fixing to the frame with C.P brass screws and applying a priming coat of zinc chromate yellow primer (aluminium frame work shall be paid separately).	104.00	sqm	650.15	67616	
				Rs	<b>144855</b>	
<b>11.00</b>	<b>WATER SUPPLY</b>					
11.01	Providing and fixing white vitreous china pedestal type water closet (European type W.C. Pan) with seat and lid, 10 litre low level white P.V.C flushing cistern, including flush pipe, with manually controlled device, (handle lever) conforming to IS:7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:					
	W.C pan with ISI marked white solid plastic seat and lid	6.00	each	3,317.30	19904	
11.02	Providing and fixing wash basin with C.I, brackets, 15mm C.P brass pillar taps, 32mm C.P brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required:					
	White Vitreous china wash basin size 630x450mm with a pair of 15mm C.P. brass pillar taps	6.00	each	2,331.15	13987	
11.03	Providing and fixing china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings	6.00	each	979.95	5880	

Item No.	Description of Item	Quantity	Unit	Rate Rs.	Amount Rs.	DSR 2014 -
11.04	Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350 mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required					
	Range of three half stall urinals with 10 litre P.V.C. automatic flushing cistern	1.00	each	13,411.10	13411	
11.05	Providing and fixing kitchen sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P. brass waste complete, including painting the fittings and brackets, cutting and making good the walls wherever required:					
.	White glazed fire clay kitchen sink of size 600x450x 250 mm	1.00	each	2,442.60	2443	
11.06	Providing and fixing P.V.C door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet, mitred at corners and joined with 2 nos of 150mm long brackets of 15x15mm MS square tube, the vertical door frame profiles to be reinforced with 19x19mm M.S square tube of 19 guage, EPDM rubber gasket weather seal to be provided throughout the frame. The door frame to be fixed to the wall using M.S screws of 65/100mm size ,complete as per manufacturer's specification and direction of Engineer-in-charge	47.00	metre	458.95	21571	

Item No.	Description of Item	Quantity	Unit	Rate Rs.	Amount Rs.	DSR 2014 -
11.07	Providing and fixing P.V.C door shutter consisting of frame made out of M.S tubes of 19 gauge thickness and size of 19mmx19mm for styles and 15x15mm for top and bottom rails.M.S frame shall have a coat of steel primers of approved make and manufacture M.S frame covered with 5mm thick heat moulded PVC C channel of size 30mm thickness70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5 mm thick, 95 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mm x 2 ) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail, paneling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded/ sealed to the styles & rails with 7 mm (5 mm+2 mm) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5 mm					
	30mm thick plain PVC door shutters	14.00	sqm	2,749.60	38494	
				Rs	<b>115689</b>	
12.00	<b>WATER PROOFING</b>					
12.01	Providing and laying integral cement based treatment for water proofing on horizontal surface at all levels as directed by Engineer-in-charge and consisting of :					
	(i) 1st layer of 22mm to 25mm thick approved and specified rough stone slab over 25mm thick base of cement mortar 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound conforming to IS : 2645 in the recommended proportion, joints sealed with cement slurry mixed with water proofing compound.					
	(ii) 2nd layer of 25mm thick cement mortar 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportions.					

Item No.	Description of Item	Quantity	Unit	Rate Rs.	Amount Rs.	DSR 2014 -
	(iii) Finishing top with stone aggregate of 10mm to 12 mm nominal size spreading @ 8 cu dm / sqm thoroughly embedded in the 2nd layer.					
	Using rough kota stone	22.00	sqm	1022.45	22493.90	
12.02	Providing and laying integral cement based treatment for water proofing on the vertical surface by fixing specified stone slab 22mm to 25mm thick with cement slurry mixed with water proofing compound conforming to IS 2645 in recommended proportions with a gap of 20mm (minimum) between stone slab and the receiving surfaces and filling the gaps with cement slurry mixed with water proofing compound and finishing the exterior of stone slab with cement mortar 1:4 (1 cement : 4 coarse sand) 20mm thick with neat cement punning mixed with water proofing compound in recommended proportions complete at all levels as directed by Engineer-in-charge.					
	Using rough kota stone	127.00	sqm	1243.25	157893.00	
	Total				<b>180387.00</b>	
	<b>Total</b>				<b>1517088</b>	
	<b>Add for rise in cost index</b>				<b>635660</b>	
	<b>Grand total</b>				<b>2152748</b>	

<p style="text-align: center;"><b>THE KERALA AGRO INDUSTRIES CORPORATION LTD.</b>  <b>(A GOVERNMENT UNDERTAKING)</b>  Registered office: Kissan Jyothi, Fort, Thiruvananthapuram-23</p>					
<b>10. ESTIMATION FOR HARDENING UNIT FOR AGRI PARK PUNALUR</b>					
<b>(POLYHOUSE)</b>					
<b>Material Specification and Cost for construction of Hardening unit (Open ventilated poly house with raised moving platform)</b>					
SL.N O	Material Description	Quantity	Unit	Rate(Rs.)	Amount (Rs.)
<b>A.CONSTRUCTION DETAILS</b>					
1	65mm GI -B- Class Pipe for Pillar height 3.6x26=93.6	396	Kg	78.00	30888.00
2	50mm GI -B- Class Pipe	486	Kg	78.00	37908.00
3	40mm GI -B- Class Pipe	1140	Kg	78.00	88920.00
4	32mm GI -B- Class Pipe	624	Kg	78.00	48672.00
5	25mm GI -B- Class Pipe	570	Kg	78.00	44460.00
		3216			
6	UV Stabilized 200 microns film 5 layered anti dust green house covering. Make Ginegar Plastic Ltd	1200	m <sup>2</sup>	57.23	68670.00
7	Insect Proof Net, Make Meteor Agriculture Net Ltd. Israel	500	m <sup>2</sup>	47.25	23625.00
8	35% Agro Shade Net, Black in colour	450	m	23.00	10350.00
9	Aluminum Channel make Indal Aluminium India	631	m	46.20	29152.20
10	Zig Zag Spring	700	m	11.00	7700.00
<b>TOTAL</b>					<b>390345.20</b>
Anticipated Labour, Welding and Fabrication Charges - @Rs.18/Kg		3216	Kg	18.00	57888.00
Anticipated Labour, Installation and Laying Charges - @Rs.70/m <sup>2</sup>		500	M <sup>2</sup>	70.00	35000.00
Civil Work-pole, grouting, brick bounday, flooring etc					50000.00
Grand Total					<b>533233.20</b>
Add 10% Profit					53323.32
TOTAL					<b>586556.52</b>
<b>B.IRRIGATION SYSTEM</b>					
<b>A) HEAD UNIT</b>					
	ARKAL 1.5"LEADER FI.+PLUG 120ME-INDIA	N	1	3,203.70	3,204.00
	VENTURI INJECTOR 3/4" 0.9 F NAKED	N	1	2,232.56	2,233.00
<b>Sub total(A)</b>					<b>5,437.00</b>
<b>B) SAFETY DEVICES</b>					
	PRESSURE GAUGE 250 GLZ 8 ATM. 1/4" BSP	N	1	212.00	212.00
	KINETIC AIR VALVE 1" AV-010 BSP	N	1	925.62	926.00
	BERMAD 1/2 PLAS. VACUUM BREAKER ARVP-BSP	N	2	202.37	405.00
<b>Sub total(B)</b>					<b>1,543.00</b>
<b>C)</b>	<b>PORTABLE POWER SPRAYER UNITFOR IRRIGATION</b>	N		12,049.90	12,050.00
<b>Subtotal©</b>					<b>12,050.00</b>

<b>D)</b>	<b>FOGGER MANIFOLD.</b>				
	<b>COOLPRO 4 X 5.5 30 CM W/STB PFC AD20</b>	N	130	139.24	18,101.20
	<b>Subtotal©</b>				<b>18,101.00</b>
<b>E)</b>	<b>VALVES</b>				
	PP BALL VALVE 1.5" (40MM)-IND	N	3	518.02	1,554.06
	PVC FLUSH VALVE50MM-IND	N	4	80.00	320.00
	<b>Subtotal(E)</b>				<b>1,874.00</b>
<b>F)</b>	<b>PVC MANIFOLD(as per field condition)</b>				
	PVC PIPE 50MM -06KG/CM2-IND	M	18	46.92	844.56
	PVC PIPE 40MM -06KG/CM2-IND	M	102	31.20	3,182.40
	<b>Subtotal(F)</b>				<b>4,027.00</b>
<b>G)</b>	<b>PVC FITTINGS(local purchase)</b>	L/S			10,000.00
	<b>Subtotal(H)</b>				<b>10,000.00</b>
	1000L Storage Tank	2	Nos	5,904.77	<b>11,809.00</b>
	1.5HP Kirloskar Pump	1	No	9,500.00	<b>9,500.00</b>
	PVC Pipe 50mm	50	M	95.24	<b>4,762.00</b>
	Electrical Meterials ELCB, Meter Box etc.				<b>1,000.00</b>
	<b>TOTAL</b>				<b>80,103.00</b>
	<b>ADD VAT</b>				<b>4,000.00</b>
	<b>INSTALLATION CHARGES</b>				<b>15,000.00</b>
	<b>TRANSPORTATION CHARGES</b>				<b>10,000.00</b>
	<b>GRAND TOTAL</b>				<b>109,103.00</b>
	Labour Charge for Pump Installation, 32 Trunch making, Pipe Line works				15000.00
	33 Electrical installation				3000.00
	<b>TOTAL For IRRIGATION</b>				<b>127103.00</b>
	<b>Add Extra</b>				<b>12540.00</b>
	<b>GRAND TOTAL For IRRIGATION</b>				<b>139,643.00</b>
	<b>C.FIXTURES</b>		LS		<b>20,000.00</b>
	<b>D.TRANSPORTATION LOADING, UNLOADING CHARGES</b>		LS		<b>15,000.00</b>
	<b>TOTAL FOR POLYHOUSE</b>				<b>761,199.52</b>
				say	<b>761,200.00</b>



## 11.HARDENING UNIT

1	Fixing of telescopic dismantling type base poles using 65mm Bclass GI pipes in cement concrete 1:2:4 with 20mm hard broken ston using 3.3Kg of cement per 10dm <sup>3</sup> of concrete and laying after necessary earth work for embedding the bootom of 65mmGI pipe				
a	Cement concrete	8.21	m <sup>3</sup>	6790.43	55749.43
b	Earthwork excavation	15	m <sup>3</sup>	270	4050.00
c	65mm GI B class pipe	550	Kg	78	42900.00
2	with required sliding mechanism for a total displacement of 50cm. Cost inclusive of coast of rollers, sliding mechanism etc complete	990	Kg	78	77220.00
5	Sliding platfrom base cross support using 25mm GI B class pipe	1250	Kg	78	97500.00
6	GI galvanised M10 nut and bolt	51	Kg	115	5865.00
7	distribution line in and aroud poly house and extra facilities to provide irrigation system over the tray				90,000.00
8	Fabrication charge				100,000.00
9	Aluminium section (powder coated - Ivory				
a	3"x1" Aluminium section	980	m	700/3.6m	190,556.00
b	2mm thick 1" width Aluminium flat	480	m	190/36.m	25,333.00
c	1"x1" Aluminium angle iron	700	m	335/3.6m	65,139.00
10	Fabrication charge for sliding tray using revet joining etc complete				100,000.00
11	1.5cmx 2.5cm hexogonal aluminium perforated expanded mesh with 1.5mm thickness 1Kg.09m <sup>2</sup>	5000	Sqft	43/sqft	215,000.00
12	Automation of Polyhouse providing temprature indication, humidity indication, light indiocation, alarm indication, controller timer based for chip	LS			75,000.00
13	Supplying and laying of weed control plastic woven net over the floor	483	m <sup>2</sup>		9,660.00
<b>TOTAL FOR HARDENING UNIT</b>					<b>1312862</b>

<b>GENERAL ABSTRACT</b>	
Total Amount for polyhouse and hardening unit	<b>2074062.43</b>
KVAT at Compounded Rate 4%	<b>82962.50</b>
IT @ 2.00 %	<b>41481.25</b>
CWWF @ 1 %	<b>20740.62</b>
Unforeseen Items (LS)	<b>30753.20</b>
<b>GRAND TOTAL</b>	<b>2250000.00</b>
(Rs. Twenty Two Lakhs and Fifty Thousand only)	