

BILL OF QUANTITY

1. Name of work :-Renovation of Lab cum farmer training centre at Kalyanpur farm under DRPCA, Pusa.

2. Estimated cost:- Rs 1,92,369.00

Sold to:

3. Earnest Money:- Rs4000.00

Address:

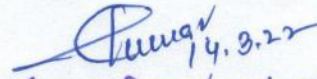
4. Cost of B.O.Q :- Rs. 500.00

Reg. No.

5. Time of completion :- one month

M.R No.

Sl. No.	Discription	Qty.	Unit	Rate	Amount
1	Demolishing brick work manually / by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.	0.47	cum	1698.45	
2	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	564.33	sqm	16.35	
3	Brick work with common burnt clay F .P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :	0.27	cum	8288.35	
4	15mm cement plaster of mix 1:6	63.44	sqm	339.7	
5	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	564.33	sqm	123.85	
6	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade : inner surface	367.16	sqm	137.85	
7	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade :(Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	197.17	sqm	162.35	
8	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :	45.95	sqm	131.45	


 कार्यपालक अभियन्ता (भ० एवं आ०),
 Executive Engineer (B&I)
 रा० प्र० के० कु० वि०, पुसा
 R.P.C.A.U. Pusa
 14/3/22

BILL OF QUANTITY

1. Name of work :-Renovation of Supporting Staff qrt.(2 Units) At KVK Hariharpur (Vaishali) under DRPCAUI, Pusa					
2. Estimated cost:- Rs 7,32,721.00			Sold to:		
3. Earnest Money:- Rs.15,000.00			Address:		
4. Cost of B.O.Q :- Rs. 1250.00			Reg. No.		
5. Time of completion :- Two month			M.R No.		
Sl. No.	Discription	Qty.	Unit	Rate	Amount
1	Dismantling doors , windows and clerestory windows (steel or wood) shutter including chowkhats , architrave, holdfasts etc. complete and stacking within 50 metres lead : Of area 3 sq. metres and below	10	Each	302.7	
2	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	45	Sqm	45.05	
3	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	486.47	Sqm	16.35	
4	15mm cement plaster of mix 1:6	73.86	Sqm	339.7	
5	15mm cement plaster1:4 with punning	72.68	Sqm	361.3	
6	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	486.47	Sqm	123.85	
7	Refixing of doors including cost of hing all complete.	10	Each	500	
8	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : M100 grade.	1.29	cum	6833.4	
9	Providing 100 A one brick flat soling joint filled with local sand all complete.	52.1	Sqm	450	
10	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : M150 grade.	1.96	cum	7226.95	
11	Supplying and filling local sand in plinth area all complete.	15.63	cum	2161.2	
12	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 12 mm 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.	78.96	Sqm	1063.45	




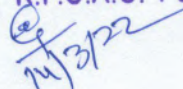
13	Providing and laying rectrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08%and conforming to IS : 15622, of approved make, in all colours and shadeslaid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand),jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc complete.300x300mm	13.62	Sqm	1225.1	
14	S/F/F ACP shutter for door with 2"x2" aluminium chaukhat and locking arrangement all complete.	3.15	Sqm	4512.2	
15	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 the gaps at junctions , i.e. at top, bottom 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 / paneling, C.P. brass / stainless steel screws , all complete as per architectural drawings and the directions of Engineer -in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :	40.32	Kg	474.7	
16	Providing and fixing glazing in aluminium door , window, ventilator shutters and partitions etc . with EPDM rubber / neoprene gasket etc . complete as per the architectural drawings and the directions of engineer - With float glass panes of 4.0 mm thickness.	5.76	Sqm	1019.8	
17	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to steel windows by welding	50	Kg	181	
18	Providing and fixing aluminium tower bolts , ISI marked , anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade , with necessary screws etc. complete : 300x10 mm .	10	Each	104.4	
19	Providing and fixing aluminium handles , ISI marked , anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade , with necessary screws etc. complete : 125 mm	10	Each	60.05	
20	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A , including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed				
	110mm dia	30	Mtrs	319.75	

21	Providing and fixing on wall face unplasticised - PVC moulded fittings / accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.				
	110mm dia bend	12	Each	319.75	
	110mm T with Door	4	Each	132	
22	Providing and fixing CPVC pipe with fittings all complete. 25mm dia	25	Mtrs	626.05	
	i) 20mm dia	25	Mtrs	513.75	
23	Providing and fixing C .P. brass long body bib cock of approved quality conforming to IS :8931 : 15 mm nominal bore .	6	Each	715.05	
	ii) Angle cock	4	Each	550	
24	Providing and fixing C .P. brass following items of standard design and of approved make conforming to IS:8931.				
	A. 25mm Gate valve	1	Each	594.75	
25	Providing and fixing 600x120x5 mm glass shelf with edges round off , supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc., complete.	2	Each	942.15	
26	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.ESSCO make	2	Each	725	
27	S/F/F steel jali 150mm dia all complete.	4	Each	90	
28	Providing and fixing wash basin with C .I. brackets, 15 mm C.P. brass pillar taps , 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets , cutting and making good the walls wherever require : White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	2	Each	2731.45	
29	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS : 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets , cutting and making good the walls wherever required : 610x510 mm bowl depth 200 mm	2	Each	4274.4	
30	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap , 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: White Vitreous china Orissa pattern W .C. pan of size 580x440 mm with integral type foot rests	2	Each	5781.35	

31	Providing and fixing 18 mm thick gang saw cut , mirror polished, premoulded and prepolished , machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size , approved shade , colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment , epoxy touch ups , including rubbing , curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels	2.85	Sqm	4679.35	
32	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade : inner surface	302.75	Sqm	137.85	
33	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade :(Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	183.72	Sqm	162.35	
34	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :	55.22	Sqm	131.45	
35	Providing and fixing ball valve (brass) of approved quality , High or low pressure, with plastic floats complete : 25 mm	2	Each	399.15	
36	S/F/F Sintex of 500 litres capacity excluding cost of nipple and plateform all complete.	2000	Ltrs	11	
37	S/F/F tank nipple all complete.	6	Each	200	
38	Providing and fixing gun metal gate valve with C .I. wheel of approved quality (screwed end) : 25 mm nominal bore	2	Each	532.35	
39	Providing and laying vetrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08%and conforming to IS : 15622, of approved make, in all colours and shadeslaid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand),jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc , complete.600x600mm	62.27	Sqm	1359.2	
	Skirting	6.22	Sqm	1359.2	

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40	Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer , 3 mm thick water proofing membrane , black finished reinforced with glass fibre matt consisting of a The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 350/300 N/5 cm. Tear strength in longitudinal and transverse direction as 60/80N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto - 2°C when tested in accordance with ASTM , D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane : 3mm thick	100.56	Sqm	534.1	
41	Construction of brick masonry chamber 0.50mx0.50m and 0.50m deep all complete as per drawing and specification.	3	Each	7000	
42	Brick work with common burnt clay modular bricks of class designation 7.5 in foundation and plinth in: C.M 1:4	1.47	cum	5786.8	


 14.3.22
 कार्यपालक अभियन्ता (मंएवं आंशं)
 Executive Engineer (B&I)
 रांप्रंकेंकुंविं, पूसा
 R.P.C.A.U. Pusa


BILL OF QUANTITY

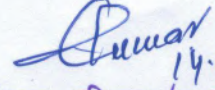
1. Name of work :- Provision of wash Room and Toilet to Lab cum Farmer Training Centre at Kalyanpur farm under DRPCAUPusa.					
2. Estimated cost:- Rs 6,41,739.00			Sold to:		
3. Earnest Money:- Rs.12,900.00			Adress:		
4. Cost of B.O.Q :- Rs. 1250.00			Reg. No.		
5. Time of completion :- one month			M.R No.		
Sl. No.	Discription	Qnty.	Unit	Rate	Amount
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms , lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.	4.86	Cum	286.85	
2	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	18.63	Cum	2161.2	
3	Providing designation 100A brick flat soling joint filled with local sand all complete. F/N	32.07	sqm	400	
4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level	2	Cum	6833.4	
5	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 :	3.01	Cum	7945.65	
6	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement	1.33	Cum	10001.7	
7	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 above plinth level up to floor five level , excluding the cost of centering , shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size).	4.49	Cum	10719.3	
8	Centering and shuttering including strutting, propping etc. and removal of form for all heights	70.4	sqm	608.35	
9	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level	0.69	Mt	89650	
10	Brick work with common burnt clay F .P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:	1.97	Cum	5786.8	



11	Brick work with common burnt clay F .P.S. (non modular) bricks of class designation 7.5 in superstructure	8.5	Cum	7814.65	
12	Brick work 7 cm thick with common burnt clay F .P.S. (non modular)brick of class designation 7.5 in cement mortar 1:3 (1 cement : 3 coarse sand) in superstructure above plinth level and upto floor five level	15.12	sqm	819.15	
13	Extra for providing and placing in position 2 Nos 6mm dia . M.S. bars at every third course of half brick masonry.	15.12	sqm	86.45	
14	S/F/F ACP door shutter with aluminium chaukhat and locking arrangement all complete.	13.23	sqm	4512.2	
15	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 12 mm 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.	36.94	sqm	1063.45	
16	Providing and laying rectrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08%and conforming to IS : 15622, of approved make, in all colours and shadeslaid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand),jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc ., complete.300x300mm	18.84	sqm	1225.1	
17	12mm cement plater of mix 1:6	60.58	sqm	282	
18	15mm cement plaster1:4 with punning	12.51	sqm	361.3	
19	6 mm cement plaster of mix :	20.02	sqm	253.05	
20	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :	80.6	sqm	137.85	
21	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. 110mm PVC pipe	25	Mt	319.75	
	110mm dia bend	20	Each	132	
	110mm T with Door	4	Each	205.45	
	110mm clip	10	Each	309.5	
22	Providing and fixing CPVC pipe with fittings all completa.25mm dia	15	M	626.05	
	i) 20mm dia	75	M	513.75	
23	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS:8931 : 15 mm nominal bore .	13	Each	715.05	
	ii) Angle cock	4	Each	815	



24	Providing and fixing C .P. brass following items of standard design and of approved make conforming to IS :8931.20mm Gate Valve	2	Each	461.75	
	A. 25mm Gate valve	2	Each	532.35	
25	S/F/F steel jali 150mm dia all complete.	4	Each	90	
26	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern , including painting of fittings and brackets , cutting and making good the walls wherever require: White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	1	Each	2731.45	
27	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap , 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: White Vitreous china Orissa pattern W .C. pan of size 580x440 mm with integral type foot rests	3	Each	5781.35	
28	Providing and fixing ball valve (brass) of approved quality , High or low pressure, with plastic floats complete : 25 mm	1	Each	399.15	
29	S/F/F PVC water storage tank including making plateform all complete.	2000	Ltrs.	11	
30	S/F/F tank nipple all complete.	6	Each	200	
31	20mm cement plaster of mix 1:6 with puning.	21.94	Sqm	507.85	


 14.3.22
 कार्यपालक अभियन्ता (मं एवं आं सं.)
 Executive Engineer (B&I)
 रा.प्र.के.कृ.वि., पूसा
 R.P.C.A.U. Pusa
 14/3/22

BILL OF QUANTITY

1. Name of work :-Construction of Lecture Hall at Kalyanpur farm under DRPCA, Pusa

2. Estimated cost:- Rs 4,91,964.00

Sold to:

3. Earnest Money:- Rs.10,000.00

Address:

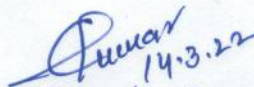
4. Cost of B.O.Q :- Rs. 750.00

Reg. No.

5. Time of completion :- one month

M.R No.

Sl. No.	Discription	Qnty.	Unit	Rate	Amount
1	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	31.75	cum	2161.2	
2	Providing designation 100A brick flat soling joint filled with local sand all complete. F/N	70.56	sqm	450	
3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level	7.06	cum	6833.4	
4	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement , including cement slurry, but excluding the cost of nosing of steps etc . complete. 40 mm thick with 20 mm nominal size stone aggregate	70.56	cum	545	
5	Half brick masonry with common burnt clay F .P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in : Cement mortar 1:3 (1 cement : 3 coarse sand) .	74.59	sqm	862.9	
6	12mm cement plaster of mix 1:6	156.7	sqm	252	
7	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.				
	40mm x40mm M.S. pipe as purline	126	Kg	93.05	
8	S/F/F 0.45mm colour coatrd roof sheet including strut bolt all complete.	95.405	sqm	1064	
9	Providing and fixing 1mm thick M .S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M .S. gusset plates at the junctions and corners, all necessary fittings complete , including applying a priming coat of approved steel primer.	11.16	sqm	4781.15	
10	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.	78.75	Kg	114.65	
11	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :	29.02	sqm	131.45	
12	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade : inner surface	156.74	sqm	137.85	


 14.3.22
 कार्यपालक अभियन्ता (सं एवं आं सं)
 Executive Engineer (B&I)
 रायपूरकंकुंवि०, पुसा
 R.P.C.A.U. Pusa
 14/3/22

BILL OF QUANTITY

1. Name of work :- Conversion of shed into Kitchen at Kalyanpur at Kalyanpur farm under DRPCA, Pusa.

2. Estimated cost:- Rs 1,24,813.00

Sold to:

3. Earnest Money:- Rs.2500.00

Address:

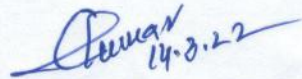
4. Cost of B.O.Q :- Rs. 500.00

Reg. No.

5. Time of completion :- one month

M.R No.

Sl. No.	Discription	Qnty.	Unit	Rate	Amount
1	Brick work with common burnt clay F .P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : C.M 1:6	3.94	cum	8288.35	
2	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 above plinth level up to floor five level , excluding the cost of centering , shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	0.29	cum	10719.3	
3	Centering and shuttering including removal of prop etc	3.95	sqm	766.55	
4	Steel requirement for R.C.C work	0.023	MT	89650	
5	Providing and fixing 1mm thick M .S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M .S. gusset plates at the junctions and corners, all necessary fittings complete , including applying a priming coat of approved steel primer.	4.37	sqm	4781.15	
6	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.	47.77	Kg	114.65	
7	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	99.73	sqm	16.35	
8	12mm cement plaster of mix 1:6	47.14	sqm	282	
9	12mm cement plaster with a coat of neat cement puning all complete.	3.95	sqm	361.3	
10	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer , over the plastered wall surface to prepare the surface even and smooth complete.	146.88	sqm	123.85	
11	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade : inner surface	146.88	sqm	137.85	
12	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :	21.29	sqm	131.45	


 कार्यपालक अभियन्ता (भ० एवं आ०)
 Executive Engineer (B&I)
 रा० प्र० के० कु० वि०, पुसा
 R.P.C.A.U. Pusa
 14/3/22

BILL OF QUANTITY

1. Name of work :-Construction of cementednursery pond (PART- A) at COF Dholi .

2. Estimated cost:- Rs 12,09,491.00

Sold to:

3. Earnest Money:- Rs.24,200.00

Adress:

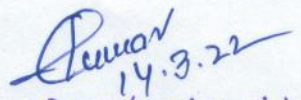
4. Cost of B.O.Q :- Rs. 2500.00

Reg. No.

5. Time of completion :- Two month

M.R No.

Sl. No.	Discription	Qnty.	Unit	Rate	Amount
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms , lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.	88.57	Cum	252.3	
2	Providing 100A one brick flat soling joint filled with local sand all complete.	295.24	sqm	348.2	
3	Providing and laying in position reifored cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level M20	43.89	cum	7718.25	
4	Reinforced cement concrete work in walls (any thickness), including attached pilasters , buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up to floor five level , excluding cost of centering , shuttering, finishing and reinforcement : 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	3.93	Cum	9306	
5	Brick work with common burnt brick in foundation upto plinth level in C.M 1:4	23.54	Cum	7590.45	
6	12 mm cement plaster finished with a floating coat of neat cement of mix 1:3 (1 cement: 3 fine sand)	541.69	sqm	340.85	
7	Reinforcement for RCC	3.75	Mt	83500	
8	Centering and shutturing including removal of prop. etc.	44.4	sqm	733.7	


 14.3.22
 कार्यपालक अभियन्ता (मं एवं आं सं)
 Executive Engineer (B&I)
 रां प्रं कें कुं विं, पूसा
 R.P.C.A.U. Pusa
 14/3/22

BILL OF QUANTITY

1. Name of work :-Construction of cementednursery pond (PART- B) at COF Dholi .

2. Estimated cost:- Rs 13,50,648.00

Sold to:

3. Earnest Money:- Rs.27,100.00

Adress:

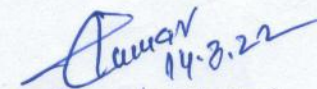
4. Cost of B.O.Q :- Rs. 2500.00

Reg. No.

5. Time of completion :- Two month

M.R No.

Sl. No.	Discription	Qnty.	Unit	Rate	Amount
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms , lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.	88.57	Cum	252.3	
2	Providing 100A one brick flat soling joint filled with local sand all complete.	295.24	sqm	348.2	
3	Providing and laying in position reinforced cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level M20	44.286	cum	7718.25	
4	Reinforced cement concrete work in walls (any thickness), including attached pilasters , buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up to floor five level , excluding cost of centering , shuttering, finishing and reinforcement : 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	5.93	Cum	9306	
5	Brick work with common burnt brick in foundation upto plinth level in C.M 1:4	34	Cum	7590.45	
6	12 mm cement plaster finished with a floating coat of neat cement of mix 1:3 (1 cement: 3 fine sand)	550	sqm	340.85	
7	Reinforcement for RCC	3.94	Mt	83500	
8	Centering and shutturing including removal of prop. etc.	73.56	sqm	733.7	


 कार्यपालक अभियन्ता (मंएवं आंसं),
 Executive Engineer (B&I)
 रांप्रंकेंकुंवि०, पूसा
 R.P.C.A.U. Pusa
 14/3/22

BILL OF QUANTITY

Name of work	Renovation of nc2-1 block-1(near post office)at DR RPCAU ,PUSA			
Estimated cost	3,40,808.00	sold to		
Earnest money	7000.00	address		
cost of boq	750.00	D.D. NO		
Time of completion	01 Month	RS		
Sl. No.	Discription	Qty.	Unit	Rate
1	Dismantling doors , windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc . complete and stacking within 50 metres lead : Of area 3 sq. metres and below .	2.00	Each	274.50
2	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.			
		46.12	sqm	39.00
3	Demolishing cement concrete manually / by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge. Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix).			
		0.52	cum	1737.45
4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)			
		0.97	cum	6788.60
5	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete , including disposal of rubbish to the dumping ground within 50 metres lead : With cement mortar 1:4 (1 cement : 4 fine sand)	20.00	sqm	429.60
6	12 mm cement plaster of mix : 1:6 (1 cement: 4 fine sand)			
		10.00	sqm	254.25



7	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete . Face			
		221.79	sqm	14.20
8	S/F/F mirror of superior glass all complete.	1.00	Each	1120.25
9	Providing and laying flamed finish Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc . all complete as specified and as directed by the Engineer- in-Charge : a. Flamed finish granite stone slab Jet Black , Cherry Red, Elite Brown , Cat Eye or equivalent.			
		5.14	sqm	4217.35
10	S/F/F ACP door shutter with aluminium chaukhat and locking arrangement all complete.	4.76	sqm	4519.20
11	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer , over the plastered wall surface to prepare the surface even and smooth complete.			
	Area vide item no 7	221.79	sqm	115.15
12	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade :			
	Area vide item no- 11	221.79	sqm	128.65



13	Providing and fixing aluminium tower bolts , ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc . complete : 300x10 mm .	2.00	Each	103.55
14	Providing and fixing aluminium handles , ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc . complete : 125 mm	2.00	Each	59.65
15	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : One or more coats on old work Grill			
		39.42	sqm	79.95
16	Providing and fixing water closet squatting pan (european type W.C. pan) with 100 mm sand cast Iron P or S trap , 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 : White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	1.00	Each	5140.55
17	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern , including painting of fittings and brackets , cutting and making good the walls wherever require: White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	1.00	Each	2510.45

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18	Providing and fixing on wall face unplasticised Rigid PVC waste pipes conforming to IS : 13592 Type A , including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed			
		5.00	M	310.20
19	Providing and fixing on wall face unplasticised - PVC moulded fittings / accessories for unplasticised Rigid PVC pipes conforming to IS : 13592 Type A , including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.			
	110mm dia bend	2.00	each	129.85
	110mm T with Door	1.00	each	203.30
20	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs , screwed with M .S. screws of required length , including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete. 110mm	2.00	each	288.80
21	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge.			
		12.00	M	478.15
22	Providing and fixing C .P. brass bib cock of approved quality conforming to IS :8931 : 15 mm nominal bore .Essco make	5.00	each	700.00
23	Providing and fixing C .P. brass stop cock (concealed) of standard design and of approved make conforming to IS :8931. 15 mm nominal bore	1.00	each	925.00



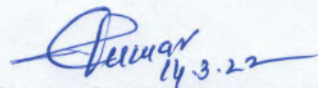
24	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer), of approved make , in all colours, shades except burgundy , bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm 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.			
		37.07	sqm	1030.3
25	Providing and laying rectified 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 all colours , shades, except White , Ivory, Grey, Fume Red Brown, laid on 20 mm thick bed of cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigments etc., complete.			
		12.54	sqm	1080.8
26	Providing and fixing over head shower 100mm round shape with 15 or 20 mm inlet Essco make	1.00	each	1080.8
27	S/F/F angle cock of approved quality and make.	2.00	each	924.83
28	Providing and fixing C.P. brass long body two way bib cock of Jaquar make model no .512 or any other equivalent make 15mm nominal bore	1	each	800
29	S/F/F steel jali of diameter 150mm of approved quality and make.	3	each	90



30	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 the gaps at junctions , i.e. at top, bottom 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 / paneling, C.P. brass / stainless steel screws , all complete as per architectural drawings and the directions of Engineer -in-charge. (Glazing, paneling and dash fasteners to be paid for separately) : Anodised aluminium (anodised transparent or dyed to required shade according to IS : 1868, Minimum anodic coating of grade AC 15)			
		57.68	kg	423.95
31	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):			
		8.24	Sqm	999.6
32	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS : 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets , cutting and making good the walls wherever required : 610x510 mm bowl depth 200 mm .			
		1	Each	3631.55
33	p/f ptmt towel rail complete with brackets fixed to wooden cleats with cp brass screws with all fittings .essco make			
		1	Each	200
34	Providing and fixing PTMT shelf 440mm long 124mm width and 36mm height of approved quality and colour weighting not less than 300gm.			
		1	Each	325
36	S/F/F metal jet for EWC all complete.			
		1	Each	1000



37	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption 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), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joints with white cement and matching pigments etc., complete.			
		63.39	sqm	1500.55
38	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 above plinth level up to floor five level , excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size).			
	Kit Slab	0.093	cum	9763.8
39	centering and shuttering including removal of prop.	1.235	sqm	693.05
40	Steel reinforcement for RCC work	0.007	MT	83500
42	Taking down door shutter with chaukhat and refixing the same all complete.	6	Each	500
43	Demolishing of brick work	0.455	m3	1469.9


 कार्यपालक अभियन्ता (घण्टव आंसं)
 Executive Engineer (B&I)
 रांप्रंकेंकुंविं, पूसा
 R.P.C.A.U. Pusa
 @ 14/3/22

sinking BILL OF QUANTITY

Name of work:- **Sinking of deep tubewell with 5 HP submersible pump & motor for fodder section in poultry farm under RPCAU, Pusa**

Estimated cost :- ~~217200.00~~ *2,17,198.00*

Earnest money :- Rs 4500.00

Cost of BOQ :- Rs 500.00

Time of completion: -one month

sold to

Adress

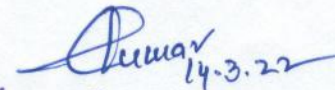
Regd.no

M.R.No

sl no	items	qnty	unit	rate
1	Boring/drilling bore well of required dia for casing/strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer -in-charge, upto 90 metre depth below ground level.			
	300mm dia	90	m	592.05
2	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge.			
	100 mm nominal size dia	30	m	553.2
	150mm	30	m	668.5
3	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well screen (RMS) pipes with ribs, conforming to IS: 12818, including hire & labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge.			
	100 mm nominal size dia. 5mm thick	30	m	580.0
4	Development of tube well in accordance with IS : 2800 (part I) and IS:11189, to establish maximum rate of usable water yield without sand content (beyond permissible limit), with required capacity air compressor, running the compressor for required time t	12	hr	916.8
5	Providing and fixing M.S. clamp of required dia to the top of casing/housing pipe of tubewell as per IS: 2800 (part I), including necessary bolts & nuts f required size complete. 150mm mm clamp	1	pair	1609.3
6	Providing and fixing pvc. reducer of required dia to the top of casing/housing pipe of tubewell as per specification, including necessary bolts & nuts f required size complete. 150mmx100mm dia 5mm thick	1	each	1800.0
7	Providing and fixing Bail plug/ Bottom plug of required dia to the bottom of pipe assembly of tubewell as per IS:2800 (part I) 100 mm dia	1	each	228.3

[Signature]

8	Gravel packing in tubewell construction in accordance with IS: 4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, (including carriage from kodarma) all complete as per direction of Engineer in- charge.	7.15	cum	1479.25
9	Supplying of submersible pump set with 5.0 H.P. pump and motor three phase of KSB make including 2.5 inch dia column pipe 60 rft, 1x3x4 sqm cable 30m including taxes all complete job as per specification and direction of E/I	1	set	65000
10	Extra for carriage of rig machine and other equipments to drilling and development of tube well complete as per specification and direction of E/I.	1	per job	15000.0
11	Providing and fixing suitable size threaded mild steel cap or spotwelded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of: 150 mm dia	1	each	210.8
12	Earth work in rough excavation, banking excavated earth in layers not exceeding 20 cm in depth, breaking clods, watering, rolling each layer with ½ tonne roller or wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 tonnes and dressing up in embankments for roads, flood banks, marginal banks and guide banks or filling up ground depressions, lead upto 50m and lift upto 1.5 m : All kinds of soil (6x3x3m)	21.6	Cum	205.45


 14.3.22
 कार्यपालक अभियन्ता (भ० एवं आ० सं०)
 Executive Engineer (B&I)
 रा० प्र० के० कृ० वि०, पूसा
 R.P.C.A.U. Pusa
 14/3/22

BILL OF QUANTITY

Name of Work:- Renovation of qrt no D/03(near post office) at RPCAU,Pusa

Estimated cost :- ~~302868.00~~ 302870.00

Earnest money :-Rs. ~~6500.00~~ 6,100.00

Cost of BOQ :-Rs.750.00

Time of completion: -two month

sold to

Adress

Regd.no

M.R.No

Sl no

ITEMS

qnty

rate

unit

1

Demolishing brick work manually means including stacking of brick and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.

0.63

1698.45

cum

2

Demolishing pcc. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.

3.257

2007.1

cum

3

Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.

20.88

45.05

sqm

4

Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground within 50 metres lead With cement mortar 1:4

25

462.3

Sqm

5

Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete

215.2

16.35

6

Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead : Of area 3 sq. metres and below

4

302.7

Each

7

15 mm cement plaster of mix : 1:6 (1 cement: 6 fine sand)

18.99

324.3

sqm

8

Providing and laying in/ position cement concrete of specified grade 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)excluding the cost of centering and shuttering - All work up to plinth level :

3.524

7365.15

cum

9

Providing and fixing 300 X 16 mm aluminium sliding door bolts, ISI marked anodized anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete

1

180.55

each

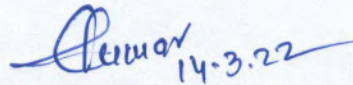
10	Providing and fixing 300 X 10 mm aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete	2 ✓	165.9	each
11	Providing and fixing aluminium handles , ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : 125 mm	2 ✓	35.2	Each
12	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade One or more coats on old work			
		215.2	121.55	sqm
13	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall			
		215.2	123.65	sqm
14	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade on steel or wooden two and more coat on old surface .		123.65	
		63.21	131.45	sqm
15	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/ 10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand and manufacture			
		10.31	125.8	sqm
16	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes Cement mortar 1:6 (1 cement : 6 coarse sand			
		0.056	8288.35	cum
17	Providing and laying reinforcement cement concrete of specified grade 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) excluding the cost of centering and shuttering - All work up to roof level :			
		0.0675	7945.65	cum
18	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. Thermo-Mechanically Treated bars			
		5.265	89.65	kg
19	centuring and shuttering			
		1.05	699.45	Sqm

22

20	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 allcolours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick bed of cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigments etc., complete.			
		13.635	1107.05	sqm
21	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 12 mm thick bed of cement mortar 1:3 (1			
		32.94	1063.45	sqm
22	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			
		70.245	531.8	kg
23	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic	10.03	1019.8	sqm
24	easing and adjusting door windows	6	200	each
25	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS:13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :Kitchen sink without drain board 610x510 mm bowl depth 200 mm	1	4274.4	Each
26	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:			
	(A) 550 X 400 mm	2	2731.45	Each
27	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes , having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge.			
	20 mm nominal dia	25	275.25	Rm
	15 mm	12	221.35	Rm
28	Providing and fixing 15 mm dia C.P. brass bib cock cock of approved quality			

29	Providing and fixing 15 mm dia C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.	2	650	Each
30	Providing and fixing 15 mm dia C.P. brass angle cock of approved quality	3	550	each
31	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.			
	(B) 110 mm diameter	6	319.75	Rm
	110mm tee	1	132	each
	110mm bend	3	205.45	each
32	Providing and fixing 15 mm dia C.P. brass shower rose of approved quality	1	850	each
33	Providing and fixing ISI marked M.S. pressed butt hinges bright finished with necessary screws etc. complete :	15	48	each
34	Providing and fixing 15 mm dia C.P. brass two way bib cock of approved quality	1	850	each
35	Providing and fixing 15 mm dia C.P. brass long body bib cock of approved quality	1	950	each
36	S F F ACP Door shutter with al frame ckoukhat			
		1.89	4200	each
37	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows fixing with butt hinges of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge. Kiln seasoned selected planks of sheesham wood			
		1.65	3259.05	sqm
38	Providing and fixing 18 mm thick gang saw cut, mirror polished pre-moulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement,			
		3.3	4679.35	sqm
39	12 mm cement plaster finished with a floating coat of neat cement of 1:4 (1 cement: 4 fine sand)			
		32.76	361.3	sqm
40	Providing and fixing M.S. grills of required pattern in frames of window etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.			
		29	197.7	kg

41	Providing and fixing 125 mm dia C.P jalli of approved quality	2	90	each
42	Providing and fixing water closet squatting pan (E. W.C. pan) with 100 mm sand cast Iron P or S trap, 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 White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	1	5781.35	Each


 14-3-22
 कार्यपालक अभियन्ता (मं एवं आंसं),
 Executive Engineer (B&I)
 रांप्रंकेंकुंवि०, पूसा
 R.P.C.A.U. Pusa
 14/3/22

BILL OF QUANTITY

1. Name of work :- Renovation of Programme Co-ordinator qrt. at KVK Hariharpur (Vaishali) Dr.RPCAU,Pusa

2. Estimated cost:- Rs 8,93,517.00

Sold to:

3. Earnest Money:- Rs. 17,900.00

Adress:

4. Cost of B.O.Q :- Rs. 1250.00

Reg. No.

5. Time of completion :- Two Month

M.R No.

Sl. No	Description	Qty.	Unit	Rate	Amount
1	Dismantling doors , windows and clerestory windows (steel or wood) shutter including chowkhats , architrave, holdfasts etc. complete and stacking within 50 metres lead : Of area 3 sq. metres and below	10	Each	302.7	
2	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	45	Sqm	45.05	
3	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete				
		582.36	Sqm	16.35	
4	15mm cement plaster 1:6	60	Sqm	339.7	
5	15mm cement plaster 1:4 with punning				
		33.75	Sqm	361.3	
6	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.				
	Area vide item no 3	582.36	sqm	123.85	
7	Refixing of doors including cost of hing all complete.				
	Doors	8.00	Each	500	
8	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : M100 grade.				
		0.58	cum	6833.4	
9	Providing 100 A one brick flat soling joint filled with local sand all complete.				
		50.76	Sqm	450	
10	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : M150 grade.				

		2.25	cum	7226.95	
11	Supplying and filling local sand in plinth area all complete.				
		9.83	cum	2161.2	
12	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 12 mm 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.				
		60.9	Sqm	1063.45	
13	Providing and laying rectified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption 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), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc complete. 300x300mm				
		10.92	Sqm	1225.1	
14	S/F/F ACP shutter for door with 2"x2" aluminium chaukhat and locking arrangement all complete.				
		3.15	Sqm	4512.2	
15	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 the gaps at junctions, i.e. at top, bottom 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 / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :Almirah				
		135.14	Kg	474.7	

16	Providing and fixing glazing in aluminium door window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer- With float glass panes of 4.0 mm thickness.				
	Area vide 15	19.31	Sqm	1019.8	
17	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to steel windows by welding	100.00	Kg	181	
18	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : 300x10 mm.	8	Each	104.4	
19	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : 125 mm	8	Each	60.05	
20	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed				
	110mm dia	30	Mts	319.75	
21	Providing and fixing on wall face unplasticised - PVC moulded fittings / accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.				
	110mm dia bend	12	Each	319.75	
	110mm T with Door	4	Each	132	
22	Providing and fixing CPVC pipe with fittings all complete. 25mm dia	30	mts	626.05	
	i) 20mm dia	35	mts	513.75	
23	Providing and fixing C .P. brass long body bib cock of approved quality conforming to IS : 8931 : 15 mm nominal bore.	3	Each	715.05	
	ii) Angle cock	4	Each	550	
24	Providing and fixing over head shower 100mm round shape single flow (ASB body chrome plated with face plate) with rubit cleaning system with 15 or 20 mm inlet	1	Each	1000	

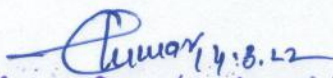

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25	Providing and fixing C .P. brass following items of standard design and of approved make conforming to IS:8931.				
	A. 25mm Gate valve	1	each	594.75	
26	Providing and fixing 600x120x5 mm glass shelf with edges round off , supported on anodised aluminium angle frame with C .P. brass brackets and guard rail complete fixed with 40 mm long screws , rawl plugs etc., complete.	2	Each	942.15	
27	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.ESSCO make	2	Each	725	
28	Providing and fixing Metal jet for EWC all complete job as per specification and direction of E/I.	1	Each	1000	
29	Providing and fixing CP long body two way bib cock of approved quality or any other equivalent make 15 mm nominal bore	1	each	708.4	
30	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	2	Each	1158.95	
31	S/F/F steel jali 150mm dia all complete.	4	Each	90.00	
32	Providing and fixing wash basin with C .I. brackets, 15 mm C.P. brass pillar taps , 32 mm C.P. brass waste of standard pattern , including painting of fittings and brackets, cutting and making good the walls wherever require: White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	2	Each	2731.45	
33	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS : 13983 with C .I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets , cutting and making good the walls wherever required : 610x510 mm bowl depth 200 mm	1	Each	4274.4	
34	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	5540.55	



35	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap , 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 : White Vitreous china Orissa pattern W .C. pan of size 580x440 mm with integral type foot rests	1	Each	5781.35	
36	Providing and fixing 18 mm thick gang saw cut , mirror polished, premoulded and prepolished , machine cut for kitchen platforms , vanity counters , window sills , facias and similar locations of required size , approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement , mixed with matching pigment, epoxy touch ups , including rubbing , curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels				
		2.70	Sqm	4679.35	
37	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade : inner surface				
	Area vide item no. 3 marked A & B	335.26	Sqm	137.85	
38	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:				
	(Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)				
	Vide item no 3 marked C	247.10	Sqm	162.35	
39	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
		58.49	Sqm	131.45	
40	Providing and fixing ball valve (brass) of approved quality, High or low pressure , with plastic floats complete : 25 mm	3	Each	399.15	
41	S/F/F Sintex of 500 litres capacity excluding cost of nipple and plateform all complete.2*500	1000	litres	11	
42	S/F/F tank nipple all complete.	3	Each	200	
43	Providing and fixing gun metal gate valve with C .I. wheel of approved quality (screwed end) : 25 mm nominal bore	2	Each	532.35	

44	Providing and laying vetrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08%and conforming to IS : 15622, of approved make , in all colours and shadeslaid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand),jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc complete.600x600mm	65.92	Sqm	1359.2	
	Skirting	6.87	Sqm	1359.2	
45	Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer , 3 mm thick water proofing membrane , black finished reinforced with glass fibre matt consisting of a The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 350/300 N/5 cm. Tear strength in longitudinal and transverse direction as 60/80N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM , D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane : 3mm thick				
		104.14	Sqm	534.1	
46	Construction of brick masonry chamber 0.50mx0.50m and 0.50m deep all completeas per drawing and specification.	3	Each	7000	
47	Brick work with common burnt clay modular bricks of class designation 7.5 in foundation and plinth in : C.M 1:4				
		1.68	cum	5786.8	
48	Construction of septic tank of 30 users including E /W, B/S/S, PCC 1:2:4 B/W and puning plaster 1:3 and RCC M150cover all complete as per drawing .2.10mx1.2x1.80M	1	Each	91050	
49	Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design.	1	Each	28029.15	


 कार्यपालक अभियन्ता (मंएवं आंरंरं)
 Executive Engineer (B&I)
 रांरंरंरंरंरंरंरं, पूसा
 R.P.C.A.U. Pusa


BILL OF QUANTITY

1. Name of work :-Renovation of Farm Manager qrt. At KVK Hariharpur (Vaishali)
under DRPCA, Pusa

2. Estimated cost:- Rs 7,74,438.00

Sold to:

3. Earnest Money:- Rs.15,500.00

Adress:

4. Cost of B.O.Q :- Rs. 1250.00

Reg. No.

5. Time of completion :- Two month

M.R No.

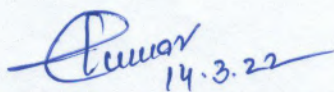
Sl. No.	Discription	Qnty.	Unit	Rate	Amount
1	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead : Of area 3 sq. metres and below	10	Each	302.7	
2	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	45	sqm	45.05	
3	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	582.36	sqm	16.35	
4	15mm cement plaster 1:6	60	sqm	339.7	
5	15mm cement plaster 1:4 with punning	33.75	sqm	361.3	
6	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer , over the plastered wall surface to prepare the surface even and smooth complete.	582.36	sqm	123.85	
7	Refixing of doors including cost of hing all complete.	8	Each	500	
8	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : M100 grade.	0.58	cum	6833.4	
9	Providing 100 A one brick flat soling joint filled with local sand all complete.	50.76	sqm	450	
10	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : M150 grade.	2.25	cum	7226.95	
11	Supplying and filling local sand in plinth area all complete.	9.83	cum	2161.2	
12	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 12 mm 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.	60.9	sqm	1063.45	

13	Providing and laying rectrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08%and conforming to IS : 15622, of approved make, in all colours and shadeslaid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand),jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc .. complete.300x300mm	10.92	sqm	1225.1	
14	S/F/F ACP shutter for door with 2"x2" aluminium chaukhat and locking arrangement all complete.	3.15	sqm	4512.2	
15	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 the gaps at junctions , i.e. at top, bottom 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 / paneling, C.P. brass / stainless steel screws , all complete as per architectural drawings and the directions of Engineer -in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :Almirah	135.14	Kg	474.7	
16	Providing and fixing glazing in aluminium door , window, ventilator shutters and partitions etc . with EPDM rubber / neoprene gasket etc . complete as per the architectural drawings and the directions of engineer - With float glass panes of 4.0 mm thickness.	19.31	sqm	1019.8	
17	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to steel windows by welding	100	Kg	181	
18	Providing and fixing aluminium tower bolts , ISI marked , anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade , with necessary screws etc. complete : 300x10 mm .	8	Each	104.4	
19	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade , with necessary screws etc. complete : 125 mm	8	Each	60.05	
20	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A , including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed				
	110mm dia	30	Mtrs	319.75	

21	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.				
	110mm dia bend	12	Each	319.75	
	110mm T with Door	4	Each	132	
22	Providing and fixing CPVC pipe with fittings all complete. 25mm dia	30	Mtrs	626.05	
	i) 20mm dia	35	Mtrs	513.75	
23	Providing and fixing C .P. brass long body bib cock of approved quality conforming to IS : 8931 : 15 mm nominal bore .	3	Each	715.05	
	ii) Angle cock	4	Each	550	
24	Providing and fixing over head shower 100mm round shape single flow (ASB body chrome plated with face plate) with rubit cleaning system with 15 or 20 mm inlet	1	Each	1000	
25	Providing and fixing C .P. brass following items of standard design and of approved make conforming to IS:8931.				
	A. 25mm Gate valve	1	Each	594.75	
26	Providing and fixing 600x120x5 mm glass shelf with edges round off , supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc., complete.	2	Each	942.15	
27	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.ESSCO make	2	Each	725	
28	Providing and fixing Metal jet for EWC all complete job as per specification and direction of E/I.	1	Each	1000	
29	Providing and fixing CP long body two way bib cock of approved quality or any other equivalent make 15 mm nominal bore	1	Each	708.4	
30	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C .P. brass screws and washers complete.	2	Each	1158.95	
31	S/F/F steel jali 150mm dia all complete.	4	Each	90	
32	Providing and fixing wash basin with C .I. brackets, 15 mm C.P. brass pillar taps , 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets , cutting and making good the walls wherever require : White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	2	Each	2731.45	
33	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS : 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets , cutting and making good the walls wherever required : 610x510 mm bowl depth 200 mm	1	Each	4274.4	

34	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	Each	5540.55	
35	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 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: White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	1	Each	5781.35	
36	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels	2.7	sqm	4679.35	
37	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade : inner surface	335.26	sqm	137.85	
38	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade : (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	247.1	sqm	162.35	
39	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :	58.49	sqm	131.45	
40	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete : 25 mm	3	Each	399.15	
41	S/F/F Sintex of 500 litres capacity excluding cost of nipple and plateform all complete. 2*500	1000	Ltrs	11	
42	S/F/F tank nipple all complete.	3	Each	200	
43	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) : 25 mm nominal bore	2	Each	532.035	

44	Providing and laying vetrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08%and conforming to IS : 15622, of approved make, in all colours and shadeslaid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand),jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc .., complete.600x600mm	65.92	sqm	1359.2	
	Skirting	6.87	sqm	1359.2	
45	Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer , 3 mm thick water proofing membrane, black finished reinforced with glass fibre matt consisting of a The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 350/300 N/5 cm. Tear strength in longitudinal and transverse direction as 60/80N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM , D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane : 3mm thick	104.14	sqm	534.1	
46	Construction of brick masonry chamber 0.50mx0.50m and 0.50m deep all completeas per drawing and specification.	3	Each	7000.00	
47	Brick work with common burnt clay modular bricks of class designation 7.5 in foundation and plinth in: C.M 1:4	1.68	cum	5786.80	


 14.3.22
 कार्यपालक अभियन्ता (ब० एवं आ० सं०)
 Executive Engineer (B&I)
 रा० प्र० के० कु० वि०, पू० सं०
 R.P.C.A.U. Pusa
 14/3/22

BILL OF QUANTITY

1. Name of work :-Renovation of SMS Staff qrt.(2 Units) At KVK Hariharpur (Vaishali)
under DRPCA, Pusa

2. Estimated cost:- Rs 10,23,866.00

Sold to:

3. Earnest Money:- Rs. ~~15,000.00~~ 20,500.00

Address:

4. Cost of B.O.Q :- Rs. ~~1250.00~~ 2,500.00

Reg. No.

5. Time of completion :- Two month


M.R No.

Sl. No.	Discription	Qty.	Unit	Rate	Amount
1	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	35	Sqm	45.05	
2	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	1089.27	Sqm	16.35	
3	15mm cement plaster of mix 1:6	50	Sqm	339.7	
4	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer , over the plastered wall surface to prepare the surface even and smooth complete.	1089.27	Sqm	123.85	
5	Providing 100 A one brick flat soling joint filled with local sand all complete.	68.05	Sqm	400	
6	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : M100 grade.	0.73	cum	6833.4	
7	12 mm cement plaster finished with a floating coat of neat cement of mix 1:4	67.25	Sqm	374.15	
8	Providing and fixing T -iron frames for doors , windows and ventilators of mild steel Tee -sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer . Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	48.45	Kg	114.65	
9	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners , all necessary fittings complete , including applying a priming coat of approved steel primer . Using M.S. angels 40x40x6 mm for diagonal braces.	4.2	Sqm	4781.15	
10	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : M150 grade.	2.02	cum	7365.15	
11	Providing and fixing aluminium tower bolts , ISI marked , anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade , with necessary screws etc. complete : 300x10 mm .	6	each	104.4	
12	Providing and fixing aluminium handles , ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade , with necessary screws etc. complete : 125 mm	12	each	60.05	

13	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 the gaps at junctions , i.e. at top, bottom 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 / paneling, C.P. brass / stainless steel screws , all complete as per architectural drawings and the directions of Engineer -in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :	117.39	Kg	573.4	
14	Providing and fixing glazing in aluminium door , window, ventilator shutters and partitions etc . with EPDM rubber / neoprene gasket etc . complete as per the architectural drawings and the directions of engineer - With float glass panes of 4.0 mm thickness.	16.77	Sqm	1019.8	
15	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 12 mm 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.	70.8	Sqm	1063.45	
16	Providing and laying rectrified floor tiles in different sizes 300x300mm (thickness to be specified by the manufacturer) with water absorption 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), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.	17.88	Sqm	1225.1	
17	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A , including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed				
	110mm dia	50	M	319.75	
18	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.				
	110mm dia bend	20	each	132	
	110mm T with Door	8	each	205.45	
	110mm clip	10	each	309.5	

19	Providing and fixing CPVC pipe with fittings all complete. 25mm dia	15	M	626.05	
	i) 20mm dia	50	M	513.75	
20	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS:8931 : 15 mm nominal bore .	6	each	715.05	
	ii) Angle cock	4	each	815	
21	Providing and fixing C .P. brass following items of standard design and of approved make conforming to IS :8931.20mm Gate Valve	2	each	461.75	
	A. 25mm Gate valve	2	each	532.35	
22	S/F/F steel jali 150mm dia all complete.	6	each	90	
23	Providing and fixing wash basin with C .I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern , including painting of fittings and brackets , cutting and making good the walls wherever require : White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	2	each	2731.45	
24	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 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 : White Vitreous china Orissa pattern W .C. pan of size 580x440 mm with integral type foot rests	2	each	5781.35	
25	Providing and fixing 18 mm thick gang saw cut , mirror polished, premoulded and prepolished , machine cut for kitchen platforms , vanity counters , window sills , facias and similar locations of required size , approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement , mixed with matching pigment , epoxy touch ups , including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels	6	Sqm	4679.35	
26	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade : inner surface	586.25	Sqm	137.85	
27	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade :(Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	503.02	Sqm	162.35	
28	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :	112.46	Sqm	131.45	
29	Providing and fixing ball valve (brass) of approved quality , High or low pressure, with plastic floats complete : 25 mm	2	each	399.15	
30	S/F/F PVC water storage tank including making platform all complete.	2000	Ltr.	11	
31	S/F/F tank nipple all complete.	3	each	200	

32	Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer , 3 mm thick water proofing membrane, black finished reinforced with glass fibre matt consisting of a The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 350/300 N/5 cm. Tear strength in longitudinal and transverse direction as 60/80N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM , D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane : 3mm thick	168.62	Sqm	534.1	
33	20mm cement plaster of mix 1:6	16.86	Sqm	382.1	
34	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption 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), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc complete.	86.5	Sqm	1359.2	
	Skirting	9.68	Sqm	1676.15	
35	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer.M.S. tube	90	Kg	157.15	
36	Brick work with common burnt clay modular bricks of class designation 7.5 in foundation and plinth in: C.M 1:4	2.25	cum	5786.8	


 14.3.22
 कार्यपालक अभियन्ता (बॉल एंड ऑसिंग)
 Executive Engineer (B&I)
 रा.प्र.के.कृ.वि., पुसा
 R.P.C.A.U. Pusa
 14/3/22

BILL OF QUANTITY

1. Name of work :- Construction of meter room, overhead water tank and Sinking of 150x100mm x90m deep tube well with 3.0HP submersible pumping set for Irrigation at RGM Piprakothi under DRPCA Pusa.

2. Estimated cost:- Rs 6,89,623.00

Sold to:

3. Earnest Money:- Rs. 13800.00

Address:

4. Cost of B.O.Q :- Rs. 1250.00

Reg. No.

5. Time of completion :- Two month

M.R No.

Sl. No.	Discription	Qty.	Unit	Rate	Amount
Part-A					
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms , lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed , within a lead of 50 m.	3.89	cum	286.85	
2	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	10.51	cum	2161.2	
3	Providing designation 100A brick flat soling joint filled with local sand all complete. F/N	19.67	sqm	400	
4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level	1.18	cum	6833.4	
5	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 :	1.86	cum	7945.65	
6	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement	1.21	cum	10001.7	
7	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 above plinth level up to floor five level, excluding the cost of centering , shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size). Lintel	2.61	cum	10719.3	
8	Centering and shuttering including strutting, propping etc. and removal of form for all heights	51.04		608.35	
9	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level	0.44	MT	89650	
10	Brick work with common burnt clay F .P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:	2.39	cum	5786.8	



11	Brick work with common burnt clay F .P.S. (non modular) bricks of class designation 7.5 in superstructure	8.49		7814.65	
12	15mm cement plaster of mix 1:6	82.18	sqm	339.7	
13	12 mm cement plaster finished with a floating coat of neat cement of mix :	32.27	sqm	374.15	
14	6 mm cement plaster of mix :	13.23	sqm	253.05	
15	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :	95.41	sqm	137.85	
16	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.	28.02	Kg	114.65	
17	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners , all necessary fittings complete , including applying a priming coat of approved steel primer.	3.57	sqm	4781	
18	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :	9.28	sqm	131.45	
Part-B					
19	Boring/drilling bore well of required dia for casing / strainer pipe , by suitable method prescribed in IS : 2800 (part I), including collecting samples from different strata , preparing and submitting strata chart / bore log, including hire & running charges of all equipments , tools, plants & machineries required for the job , all complete as per direction of Engineer -in-charge, upto 90 metre depth below ground level. 23.1.1 All types of soil	90	Meter	592.05	
20	Supplying, assembling, lowering and fixing in vertical position in bore well , unplasticized PVC medium well casing (CM) pipe of required dia , conforming to IS : 12818, including required hire and labour charges , fittings & accessories etc. all complete, for all depths, as per direction of Engineer -in-charge.				
	100mm nominal size dia	30	Meter	553.2	
	150mm nominal size dia	30	Meter	668.5	
21	Supplying, assembling, lowering and fixing in vertical position in bore well unplasticized PVC medium well screen (RMS) pipes with ribs , conforming to IS : 12818, including hire & labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer -in-charge. 100mm nominal size dia. 5mm thick	30	Meter	580	



22	Development of tube well in accordance with IS : 2800 (part I) and IS: 11189, to establish maximum rate of usable water yield without sand content (beyond permissible limit), with required capacity air compressor , running the compressor for required time till well is fully developed , measuring yield of well by "V" notch method or any other approved method, measuring static level & draw down etc. by step draw down method , collecting water samples & getting tested in approved laboratory , i/c disinfection of tubewell, all complete , including hire & labour charges of air compressor , tools & accessories etc ., all as per requirement and direction of Engineer-in-charge.	6	Hr.	916.8	
23	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS : 2800 (part I), including necessary bolts & nuts of required size complete . 65mm clamp.	1	Pair	1609.3	
24	Providing and fixing PVC reducer of required dia to the top of Casing /housing pipe of tubewell as per specification , including necessary bolts & nuts f required size complete . 150mmx100mm dia 5mm thick	1	Each	1800	
25	Providing and fixing Bail plug / Bottom plug of required dia to the bottom of pipe assembly of tubewell as per IS :2800 (part I). 23.15.1 100 mm dia	1	Each	228.3	
26	Gravel packing in tubewell construction in accordance with IS: 4097, including providing gravel fine / medium/ coarse, in required grading & sizes as per actual requirement , all complete as per direction of Engineer-in-charge.	7.15	Cum	1479.25	
27	S/F/F of 3.0HP pump and motor single phase of KSB make as per specification and direction of E/I.	1	Set	24750	
28	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing / casing	1	Each	210.8	
29	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms , lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed , within a lead of 50 m	21.6	Cum	205.45	
30	S/F/F PVC Column pipe 75cm	18.3	M.	900	
31	S/F/F Cable wire 2.5 sqw	30	M.	100	
32	S/F/F G.I. Supporting wire	L.S.		450	
33	S/F/F Adopter (2" x 2") G.I.	1	Nos	500	
34	S/F/F Elbow G.I. 2" internal dia	1	Nos	250	
Part-C					
35	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m inwidth or 10 sqm on plan), including dressing of sides and ramming of bottoms , lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed , within a lead of 50 m	3.89	Cum	286.85	
36	Providing 100 A one brick flat soling joint filled with local sand all complete.	5.04	Sqm	450	

BILL OF QUANTITY

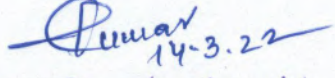
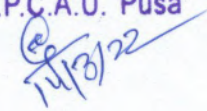
Name of work	Renovation of qtr no -old c1-31 at Dr RPCAU PUSA			
Estimated cost	2,09,594.00	SOLD TO		
Earnest money	4200.00	ADDRESS		
cost of Boq	500.00	DD NO		
time of completion	01 Month	RS		
Sl. No	Description	Qnty.	Unit	Rate
1	Dismantling doors , windows and clerestory windows (steel or wood) shutter including chowkhats , architrave, holdfasts etc . complete and stacking within 50 metres lead : Of area 3 sq. metres and below	3	Each	274.5
2	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq.meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the wall complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge With cement mortar 1:4 (1 cement: 4 coarse sand)	36.85	SQM	429.60
3	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	532.8	sqm	14.2
4	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer , over the plastered wall surface to prepare the surface even and smooth complete.	350.21	sqm	115.15
5	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.	15	M	306.95
6	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade : One or more coats on old work.	350.21	sqm	128.65
7	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade: (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	182.60	sqm	99.9



8	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : One or more coats on old work/steel work			
		68.4	sqm	121.55
9	Providing and fixing C .P. brass bib cock of approved quality conforming to IS:8931 : 15 mm nominal bore	4	Each	302.55
10	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to steel windows by welding			
		71.22	Kg	183.5
11	Providing and fixing 1mm thick M .S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M .S. gusset plates at the junctions and corners , all necessary fittings complete , including applying a priming coat of approved steel primer . Using M.S. angels 40x40x6 mm for diagonal braces.			
		0.51	sqm	4428.15
12	Providing and fixing T -iron frames for doors , windows and ventilators of mild steel Tee -sections, joints mitred and welded , including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer . Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C .C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)			
		10.920	Kg	106.45
13	S/F/F angle cock of approved quality and make.	1	Each	700.00
14	S/F/F ACP door shutter with aluminium chaukhat including locking arrangement all complete.			
		4.83	sqm	4519.2
15	Fly proof stainless steel grade 304 wire gauge with 0.5 mm dia . wire and 1.4mm wide aperture with matching wood beading . Windows			
		0	sqm	0

16	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 the gaps at junctions, i.e. at top, bottom 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 paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) : For fixed portion Anodised aluminium (anodised transparent or dyed to required shade according to IS:1868, Minimum anodic coating of grade AC			
		0 kg		0
17	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item): With float glass panes of 4.0 mm thickness (weight not less than 10 kg/ sqm)			
	vide item no 16	3.51 sqm		999.6
18	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 12 mm 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.			
		18.58 sqm		1030.3
19	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 above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size).			
		0.056 SQM		9763.8
20	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.			
		4.39 KG		83.5
21	Centering and shuttering including strutting, propping etc. and removal of form for :			
		0.74 SQM		693.05
22	Refixing all doors and windows			
		8 NOS		500

23	Providing and laying rectified 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 all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick bed of cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigments etc., complete.			
	KIT SLAB NEW	0.74	SQM	1088.4


 14-3-22
 कार्यपालक अभियन्ता (मं एवं आंसं)
 Executive Engineer (B&I)
 रांप्रंकेंकुंवि०, पूसा
 R.P.C.A.U. Pusa

 14/3/22

BILL OF QUANTITY

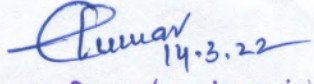
Name of work	Renovation of quarter no ND -55 under DR RPCAU PUSA	sold to		
Estimated cost	2,12,771.00	Address		
Earnest Money	4300	D.D No		
Cost of Boq	500	RS		
time of completion	01 Month			
S.NO	Description of Item	Qnty.	Unit	Rate
1	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead : Of area 3 sq. metres and below	2	each	274.5
2	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge. Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix			
		0.56	cum	1737.45
3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)			
		0.56	cum	6788.6
4	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete .			
		298.88	sqm	14.2
5	15 MM CEMENT PLASTER OF MIX 1:6 (1 cement: 6 fine sand			
		77.00	sqm	307.9
6	6 mm cement plaster of mix : 1:3 (1 cement : 3 fine sand			
		32.79	sqm	227.35
7	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer , over the plastered wall surface to prepare the surface even and smooth complete.			
		277.43	sqm	115.15
8	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade : Two or more coats on new work			
		277.43	sqm	128.65
9	Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.75 ltr/10 sqm of approved brand and manufacture			
		62.27	sqm	130.25

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10	Providing and fixing water closet squatting pan (Indian type W.C.pan) with 100 mm sand cast Iron P or S trap, 10 litre low level whiteP.V.C. flushing cistern, including flush pipe, with manually controlleddevice (handle lever) conforming to IS : 7231, with all fittings andfixtures complete, including cutting and making good the walls andfloors wherever required: White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests			
		1	each	5421.5
11	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brasspillar taps, 32 mm C.P. brass waste of standard pattern, includingpainting of fittings and brackets, cutting and making good the wallswherever requireWhite Vitreous China Flat back wash basin size 550x400 mm with single 15 mm C.P. brass pillar tap			
		1	each	2510.45
12	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink asper IS :13983 with C .I. brackets and stainless steel plug 40 mm,including painting of fittings and brackets , cutting and making goodthe walls wherever required :610x460 mm bowl depth 200 mm			
		1	each	2828.75
13	Providing and fixing on wall face unplasticised Rigid PVC rain waterpipes conforming to IS : 13592 Type A, including jointing with sealing conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.			
		5	M	305.05
14	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for unplasticised Rigid PVC rain water pipes conformingto IS : 13592 Type A, including jointing with seal ring conforming toIS : 5382, leaving 10 mm gap for thermal expansion			
		3	each	129.85
		1	each	203.3
15	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mmhard wood plugs, screwed with M.S. screws of required length,including cutting brick work and fixing in cement mortar 1:4 (1 cement: 4 coarse sand) and making good the wall etc. complete.			
		5	each	288.8
16	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes,having thermal stability for hot & cold water supply, including allCPVC plain & brass threaded fittings, including fixing the pipe withclamps at 1.00 m spacing. This includes jointing of pipes & fittingswith one step CPVC solvent cement and testing of joints completeas per direction of Engineer inCharge.			
	20 mm nominal outer dia Pipes	15	m	306.95
17	Providing and fixing C.P. brass bib cock of approved quality conformingto IS:8931 : 15 mm nominal bore			

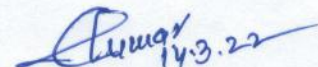
		3	each	418.95
18	Providing and fixing brass stop cock of approved quality			
		4	each	326.45
19	S/F/F CP Brass shower rose of approved quality including taxes carriage etc all complete as per spec and direction of E/L.			
		0	each	0
20	S/F/F ACP door with aluminium chaukhat including locking arrangement all complete	2.66	sqm	4519.2
21	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 the gaps at junctions, i.e. at top, bottom 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 paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) : For fixed portion Anodised aluminium (anodised transparent or dyed to required shade according to IS:1868, Minimum anodic coating of grade AC			
		27.86	kg	423.95
22	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item): With float glass panes of 4.0 mm thickness (weight not less than 10 kg/ sqm)			
		3.98	sqm	999.6
23	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with : 4.0 mm thick glass panes			
		0.96	sqm	900.55
24	S/F/F Steel jali of diameter 150mm all complete as per specification and direction of E/L			
		3	each	90
25	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 12 mm 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.			
		26.82	sqm	1030.3

26	Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in colours White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement: 4 Coarse sand), jointing with grey cement slurry @ 3.3kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.			
		11.21	sqm	1088.8
27	Refixing all doors and windows	8	nos	500
28	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 above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size).			
		0.079	cum	9763.8
29	Steel reinforcement for RCC work	7	mt	83.5
30	centering and shuttering including removal of prop.	1.05	sqm	693.05


 14.3.22
 कार्यपालक अभियन्ता (मंएवं आंसं)
 Executive Engineer (B&I)
 रांप्रंकेंकुंवि०, पुसा
 R.P.C.A.U. Pusa
 14/3/22

BILL OF QUANTITY


1. Name of work :- Construction of Sukhet Model (Vermicompost unit, Garbage yard & Sieving shed) including water supply at NICRA village ,KVK Madhopur under Dr.RPCA.U,Pusa.					
2. Estimated cost:- Rs 7,52,473.0			Sold to:		
3. Earnest Money:- Rs. 15,100.00			Address:		
4. Cost of B.O.Q :- Rs. 1250 .00			Reg. No.		
5. Time of completion :- One Month			M.R.No.		
Sl. No.	Discription	Qty.	Unit	Rate	Amount
1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :1:2:4	75.99	cum	7365.15	
2	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.	3.88	cum	286.85	
3	S/F/F 50mm dia M .S. Pipe as post of required length including welding charge nut bolts etc. all cost.				
	Posts	153.77	Kg	140.85	
	Rafter & Purline	246.98	Kg	93.05	
4	S/F/F 0.45mm Dura shine roof sheet including J or L hooks All complete.	40.87	Sqm	1064	
5	S/F/F Dura shine Ridge all complete.	6.1	M	1103	
6	Boring/ drilling 40mm dia bore including all cost for carraige of plant all complete.	55	M	200	
7	S/F/F following dia G.I. pipe and fittings all complete.				
	1. 40mm G.I. pipe	48.8	M	725	
	2. 40mm fillter	6.1	Each	813.25	
	3. 1 1/2" x 6" TEE	1	Each	150	
	4. 1 1/2" x 6" nipple	1	Each	100	
	5. 1" checkvalve	1	Each	475	
	6. 1"MTF Brass	3	Each	245	
	7. 1" Brass tee	1	Each	220	
	8 1" Tank nipple	2	Each	375	
	9. 1" Gate valve	2	Each	525	
	10. 4"x1/2" nipple	1	Each	25	
	11. 6"x1/2" nipple	1	Each	35	
	12. 1/2" Brass valve	1	Each	275	
8	S/F/F following dia UPVC pipe and fittings all complete.				
	1. 25mm dia pipe	30	M	369.2	
	Supply & fixing of hand pump head including all taxes carraige all complete.	1		4500	
9	S/F/F pvc water storage tank including all cost of carraige all complete				
10		500	Ltrs	11	
11	Providing and fixing elevated stand of angle section for water storage tank including all cost.				
	45mm x 45mm angle section as post , bracing & top member	87.04	Kg	101.75	
	25mm M.S. flat	8.8	Kg	101.75	
	M.S. sheet 5mm thick	15	Kg	89.65	
12	S/F/F 0.5 H.P. shallow motor of crompton make	1	Each	5000	
13	S/F/F 25mm dia flexible pipe	25	Kg	180	


 कार्यपालक अभियन्ता (भण्ड एवं आसं०)
 Executive Engineer (B&I)
 रा०प्र०के०कु०वि०, पूसा
 R.P.C.A.U, Pusa
 14/3/22

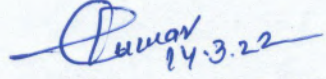
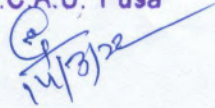
Name of work	Renovation of qtr no-ND 71-NEAR POULTRY FARM at Dr Rpucau pusa			
Estimated cost	2,20,152.00	SOLD TO		
Earnest money	4500.00	ADDRESS		
cost of Boq	500.00	DD NO		
time of completion	01 Month	RS		
Item No. & DSR 18 Ref.	Description of Item	Qty.	Unit	Rate
1	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead : Of area 3 sq. metres and below	2	each	274.5
2	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge. Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)			
		0.66	cum	1737.45
3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)			
		0.66	cum	6788.6
4	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete .			
		298.88	sqm	14.2
5	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq.meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the wall complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge With cement mortar 1:4 (1 cement: 4 coarse sand)			
		74.98	sqm	429.6
6	6 mm cement plaster of mix : 1:3 (1 cement : 3 fine sand ceilings			
		26.2	sqm	227.35
7	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer , over the plastered wall surface to prepare the surface even and smooth complete.			
		277.43	SQM	115.15
8	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade : Two or more coats on new work area vide item no 7			
		277.43	sqm	128.65
9	Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.75 ltr/10 sqm of approved brand and manufacture			
		62.27	sqm	130.25

10	Providing and fixing water closet squatting pan (Indian type W.C.pan) with 100 mm sand cast Iron P or S trap, 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: White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests			
		1	each	5421.5
11	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required: White Vitreous China Flat back wash basin size 550x400 mm with single 15 mm C.P. brass pillar tap			
		1	each	2510.45
12	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS : 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required : 610x460 mm bowl depth 200 mm			
		1	each	2828.75
13	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with sealing conforming to IS : 5382, leaving 10 mm gap for thermal expansion,			
	rain water and toilet			
	110mm dia	20	M	305.05
	75 MM DIA	10	M	201.1
14	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion			
	110MM Dia bend	3	each	129.85
	110 mm dia T WITH DOOR	1	each	203.3
15	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement: 4 coarse sand) and making good the wall etc. complete.			
		10	each	288.8
16	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.			
	20 mm dia Pipes	15	m	306.95
17	Providing and fixing C.P. brass bib cock of approved quality conforming to IS: 8931 : 15 mm nominal bore			
		4	each	418.95

18	Providing and fixing brass stop cock of approved quality	4	each	326.45
19	S/F/F CP Brass shower rose of approved quality including taxes carriage etc all complete as per spec and direction of E/L.	1	each	400
20	S/F/F ACP door with aluminium chaukhat including locking arrangement all complete	2.66	sqm	4519.2
21	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 the gaps at junctions, i.e. at top, bottom 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 paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) : For fixed portion Anodised aluminium (anodised transparent or dyed to required shade according to IS:1868, Minimum anodic coating of grade AC	27.86	kg	423.95
22	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item): With float glass panes of 4.0 mm thickness (weight not less than 10 kg/ sqm)	3.98	sqm	999.6
23	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with : 4.0 mm thick glass panes	0.96	sqm	900.55
24	S/F/F Steel jali of diameter 150mm all complete as per specification and direction of E/L	3	each	90
25	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 12 mm 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.	21.45	sqm	1030.3



26	Providing and laying rectified 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 all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick bed of cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigments etc., complete.			
		10.16	sqm	1088.4
27	Refixing all doors and windows	5	nos	500
28	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/ 10 sqm over an			
		6.94	SQM	125.8


 14.3.22
 कार्यपालक अभियन्ता (मंएवं आंसं)
 Executive Engineer (B&I)
 रांप्रंकेंकुंविं, पूसा
 R.P.C.A.U. Pusa

 14/3/22

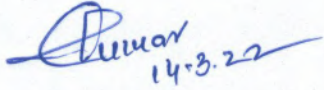
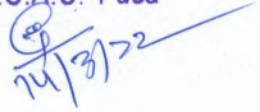
Bill of Quantity

Name of work	Renovation of qtr no E-2,36(one room set)UNDER DR RPCAU PUSA			
Estimated cost	135307.00	SOLD TO		
Earnest money	2800.00	ADDRESS		
cost of Boq	500.00	DD NO		
time of completion	01 Month	RS		
Item No.	Description of Item	Qty.	Unit	Rate
1	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete .			
		153.16	sqm	14.2
2	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.			
		48.80	sqm	39
3	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq.meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge With cement mortar 1:4 (1 cement: 4 coarse sand)			
		49.73	sqm	429.6
4	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer , over the plastered wall surface to prepare the surface even and smooth complete.			
		153.16	sqm	115.15
5	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade : Two or more coats on new work			
	Area mention in item no 1	153.16	sqm	128.65
6	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead			
		2	each	274.5
7	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer. Using M.S. angels 40x40x6 mm for diagonal braces			
		3.63	sqm	4428.15
8	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 above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size).			
	kit slab 1	0.08	cum	7296

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9	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. Thermo-Mechanically Treated bars of grade Fe -500D or more			
		4.5	kg	83.5
10	Centering and shuttering including strutting, propping etc. and removal of form for :Shelves (Cast in situ)			
		1.105	sqm	693.05
11	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. 40 mm thick with 20 mm nominal size stone aggregate			
		35.14	sqm	498.35
12	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.			
	20MM DIA	7	M	306.92
13	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS:13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required 610x460 mm bowl depth 200 mm			
		1	EACH	2828.75
14	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :			
		2	EACH	418.95
15	s/f/f colour coated roof sheet with min thickness 0.45 including j and l hook all complete job			
	roof 2	14.7	sqm	1064
16	Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.75 ltr/10 sqm of approved brand and manufacture			
		14.87	sqm	130.25
17	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :Cement mortar 1:6 (1 cement : 6 coarse sand)			
		0.25	cum	7590.45
18	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer. Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).			

		66.37	KG	106.45
19	LABOUR charge for re arrange C A SHEET			
20	Supplying fitting & fixing colour coated ridge for roof all complete job as per direction of E/L.	2	UNIT	500
		3	M	1103



 14.3.22
 कार्यपालक अभियन्ता (भ० एवं आ० सं०)
 Executive Engineer (B&I)
 रा० प्र० के० कृ० वि०, पूसा
 R.P.C.A.U. Pusa

 14/3/22

BILL OF QUANTITY

Name of work :	Sinking of 100x100mmx90m deep tube well with 3.0HP submersible motor with pump for Irrigation at RGM, Madhopur (West Chamaparan) (5 Nos) under Dr. R.P.C.A.U Pusa				
Estimated Cost :	Rs: 1158393.00	Sold to :			
Earnest Money :	Rs: 23200.00	Address :			
Cost of B.O.Q :	Rs: 2500.00	D.D.No.:			
Time of Completion :	One Month	Rs.:			
Sl. No.	Description of work	Quantity	Unit	Rate(Rs.)	Amount (RS.)
1	2	3.00	4.00	5.00	6 (3x5)
1	Boring/drilling bore well of required dia for casing / strainer pipe, by suitable method prescribed in IS : 2800 (part I), including collecting samples from different strata , preparing and submitting strata chart / bore log , including hire & running charges of all equipments , tools, plants & machineries required for the job , all complete as per direction of Engineer -in-charge, upto 90 metre depth below ground level. 23.1.1 All types of soil	450	Meter	592.05	
2	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia , conforming to IS : 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer -in-charge.				
i.	100mm nominal size dia	300	Meter	732.00	
3	Supplying, assembling, lowering and fixing in vertical position in bore well unplasticized PVC medium well screen (RMS) pipes with ribs , conforming to IS : 12818, including hire & labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer -in-charge. 100mm nominal size dia . 5mm thick	150	Meter	832.00	
4	Development of tube well in accordance with IS : 2800 (part I) and IS: 11189, to establish maximum rate of usable water yield without sand content (beyond permissible limit), with required capacity air compressor , running the compressor for required time till well is fully developed , measuring yield of well by "V" notch method or any other approved method , measuring static level & draw down etc . by step draw down method , collecting water samples & getting tested in approved laboratory , i/c disinfection of tubewell , all complete, including hire & labour charges of air compressor , tools & accessories etc ., all as per requirement and direction of Engineer-in-charge.	30	Hr.	916.80	
5	Providing and fixing M .S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS : 2800 (part I), including necessary bolts & nuts of required size complete. 65mm	5	Pair	1609.30	
6	Providing and fixing PVC reducer of required dia to the top of Casing/housing pipe of tubewell as per specification , including necessary bolts & nuts of required size complete . 150mmx100mm dia 5mm thick	5	Each	1800.00	
7	Providing and fixing Bail plug / Bottom plug of required dia to the bottom of pipe assembly of tubewell as per IS :2800 (part I). 23.15.1 100 mm dia	5	Each	228.30	



8	Gravel packing in tubewell construction in accordance with IS : 4097, including providing gravel fine / medium/ coarse, in required grading & sizes as per actual requirement , all complete as per direction of Engineer-in-charge.	35.75	Cum	4500.00	
9	S/F/F of 3.0HP pump and motor single phase of KSB make as per specification and direction of E/I.	5	Set	33300.00	
10	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing / casing pipe , removable as per requirement , all complete for borewell of : 100 mm dia	5	Each	210.80	
11	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. 2.8.1 All kinds of soil.	108	Cum	286.85	
12	S/F/F PVC Column pipe 75cm	91.5	M.	900.00	
13	S/F/F Cable wire 2.5 sqw	150	M.	160.00	
14	S/F/F G.I. Supporting wire	L.S.		450.00	
15	S/F/F Adopter (2" x 2") G.I.	5	Nos	500.00	
16	S/F/F Elbow G.I. 2" internal dia	5	Nos	250.00	
17	L & T panel board	5	Nos	6384.00	

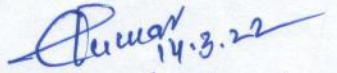

 14.3.22
 कार्यपालक अभियन्ता (भ० एवं आ० सं०)
 Executive Engineer (B&I)
 रा० प्र० के० कु० वि०, पूसा
 R.P.C.A.U. Pusa
 74/3/22

BILL OF QUANTITY

Name of work :	Sinking of 100x100mmx90m deep tube well with 3.0HP submersible motor with pump for Irrigation at RGM, Madhopur (West Champaran) under Dr. R.P.C.A.U Pusa				
Estimated Cost :	Rs: 695216.00	Sold to :			
Earnest Money :	Rs: 14000.00	Address :			
Cost of B.O.Q :	Rs: 1250.00	D.D.No.:			
Time of Completion :	One Month	Rs.:			
Sl. No.	Description of work	Quantity	Unit	Rate(Rs.)	Amount (RS.)
1	2	3.00	4.00	5.00	6 (3x5)
1	Boring/drilling bore well of required dia for casing / strainer pipe, by suitable method prescribed in IS : 2800 (part I), including collecting samples from different strata , preparing and submitting strata chart / bore log , including hire & running charges of all equipments , tools, plants & machineries required for the job , all complete as per direction of Engineer -in-charge, upto 90 metre depth below ground level. 23.1.1 All types of soil	270	Meter	592.05	
2	Supplying, assembling, lowering and fixing in vertical position in bore well , unplasticized PVC medium well casing (CM) pipe of required dia , conforming to IS : 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer -in-charge.				
i.	100mm nominal size dia	180	Meter	732.00	
3	Supplying, assembling, lowering and fixing in vertical position in bore well unplasticized PVC medium well screen (RMS) pipes with ribs , conforming to IS : 12818, including hire & labour charges, fittings & accessories etc. all complete, for all depths , as per direction of Engineer -in-charge. 100mm nominal size dia . 5mm thick	90	Meter	832.00	
4	Development of tube well in accordance with IS : 2800 (part I) and IS: 11189, to establish maximum rate of usable water yield without sand content (beyond permissible limit), with required capacity air compressor , running the compressor for required time till well is fully developed , measuring yield of well by "V" notch method or any other approved method , measuring static level & draw down etc . by step draw down method , collecting water samples & getting tested in approved laboratory , i/c disinfection of tubewell , all complete , including hire & labour charges of air compressor , tools & accessories etc ., all as per requirement and direction of Engineer-in-charge.	18	Hr.	916.80	
5	Providing and fixing M .S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS : 2800 (part I), including necessary bolts & nuts of required size complete. 65mm	3	Pair	1609.30	
6	Providing and fixing PVC reducer of required dia to the top of Casing/housing pipe of tubewell as per specification , including necessary bolts & nuts f required size complete . 150mmx100mm dia 5mm thick	3	Each	1800.00	
7	Providing and fixing Bail plug / Bottom plug of required dia to the bottom of pipe assembly of tubewell as per IS :2800 (part I). 23.15.1 100 mm dia	3	Each	228.30	



8	Gravel packing in tubewell construction in accordance with IS : 4097, including providing gravel fine / medium/ coarse, in required grading & sizes as per actual requirement , all complete as per direction of Engineer-in-charge.	21.45	Cum	4500.00	
9	S/F/F of 3.0HP pump and motor single phase of KSB make as per specification and direction of E/I.	3	Set	33300.00	
10	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing / casing pipe , removable as per requirement , all complete for borewell of : 100 mm dia	3	Each	210.80	
11	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. 2.8.1 All kinds of soil.	64.8	Cum	286.85	
12	S/F/F PVC Column pipe 75cm	54.9	M.	900.00	
13	S/F/F Cable wire 2.5 sqw	.90	M.	160.00	
14	S/F/F G.I. Supporting wire	L.S.		450.00	
15	S/F/F Adopter (2" x 2") G.I.	3	Nos	500.00	
16	S/F/F Elbow G.I. 2" internal dia	3	Nos	250.00	
17	L & T panel board	3	Nos	6384.00	


 कार्यपालक अभियन्ता (मंएवं आंसं),
 Executive Engineer (B&I)
 रांप्रंकेंकुंविं, पूसा
 R.P.C.A.U. Pusa
 14/3/22

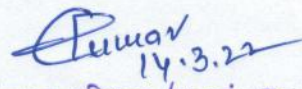
BILL OF QUANTITY

Name of work :	Rain water harvesting and recharge structure at KVK- Madhopur (01 Nos) under Dr. RPUCAU Pusa.				
Estimated Cost :	Rs: 2,99,005.00	Sold to :			
Earnest Money :	Rs: 6000.00	Address :			
Cost of B.O.Q :	Rs: 750.00	D.D. No.:			
Time of Completion :	One Month	Rs.:			
Sl. No.	Description of work	Quantity	Unit	Rate(Rs.)	Amount (RS.)
1	2	3.00	4.00	5.00	6 (3x5)
Part-A (Artificial Ground water Recharge Tubewell)					
1	Boring/drilling bore well of required dia for casing / strainer pipe, by suitable method prescribed in IS : 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart / bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge, upto 90 metre depth below ground level. 23.1.1 All types of soil	60.00	Meter	512.30	
2	Gravel packing in tubewell construction in accordance with IS : 4097, including providing gravel fine / medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of Engineer-in-charge.	3.78	Cum	1497.70	
3	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS : 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge. 23.3.1 100 mm nominal size dia	30.00	Meter	732.00	
4	Supplying, assembling, lowering and fixing in vertical position in bore well unplasticized PVC medium well screen (RMS) pipes with ribs, conforming to IS : 12818, including hire & labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge. 100mm nominal size dia. 5mm thick	30.00	Meter	832.00	
5	Development of tube well in accordance with IS : 2800 (part I) and IS: 11189, to establish maximum rate of usable water yield without sand content (beyond permissible limit), with required capacity air compressor, running the compressor for required time till well is fully developed, measuring yield of well by "V" notch method or any other approved method, measuring static level & draw down etc. by step draw down method, collecting water samples & getting tested in approved laboratory, i/c disinfection of tubewell, all complete, including hire & labour charges of air compressor, tools & accessories etc., all as per requirement and direction of Engineer-in-charge.	6.00	Hr.	857.60	
6	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. 2.8.1 All kinds of soil.	21.60	Cum	286.85	
7	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing / casing pipe, removable as per requirement, all complete for borewell of: 100 mm dia	1.00	Each	189.70	
Part-B (Artificial Ground water Observation Tubewell)					




8	Boring/drilling bore well of required dia for casing / strainer pipe, by suitable method prescribed in IS : 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart / bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge, upto 90 metre depth below ground level. 23.1.1 All types of soil	60.00	Meter	512.30	
9	Gravel packing in tubewell construction in accordance with IS : 4097, including providing gravel fine / medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of Engineer-in-charge.	4.14	Cum	1497.70	
10	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS : 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge. 23.3.1 100 mm nominal size dia	30.00	Meter	600.40	
11	Supplying, assembling, lowering and fixing in vertical position in bore well unplasticized PVC medium well screen (RMS) pipes with ribs, conforming to IS : 12818, including hire & labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge. 100mm nominal size dia. 5mm thick	30.00	Meter	651.50	
12	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing / casing pipe, removable as per requirement, all complete for borewell of: 100 mm dia	1.00	Each	189.70	
Part- C (Requirement for fabrication of Ground water recharge filter)					
13	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS : 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge. 200 mm nominal size dia	6.00	Meter	1066.00	
14	Elbow 90 degree (6Kg/Sqcm) 200mm dia	4.00	Each	800.00	
15	Elbow 90 degree (6Kg/Sqcm) 150mm dia	1.00	Each	650.00	
16	Reducer Coupler 200 to 150mm dia	1.00	Each	845.00	
17	Reducer Coupler 150 to 100mm dia	1.00	Each	585.00	
18	Coupler 200mm dia	3.00	Each	650.00	
19	End Cap 200mm dia	1.00	Each	650.00	
20	Filter along with Net	1.00	Set	2300.00	
21	Fabrication Charge	1.00	Job	2300.00	
22	Miscellaneous Items (Solvent and leakage Proof Materials).	1.00	I/S	1000.00	
Part- D (Sump Pit for Ground water Recharge Assembly 3x2x2.3m)					
23	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. 2.8.1 All kinds of soil.	26.40	Cum	286.85	
24	Providing designation 100A one brick Flat soling including filling joints with Local sand all taxes and royalty all complete as per direction of E/I	9.67	Sqm	450.00	
25	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)	1.40	Cum	7365.15	

26	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement , including cement slurry, but excluding the cost of nosing of steps etc . complete. 40 mm thick with 20 mm nominal size stone aggregate	6.00	Sqm	545.00	
27	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:6 (1 cement : 6 coarse sand)	6.32	Cum	8288.35	
	12 mm cement plaster of mix : 1:6 (1 cement: 6 fine sand)	26.75	Sqm	282.00	
	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete . 9.48.1 Fixed to steel windows by welding	100.00	Kg	181.00	
	Constructing brick masonry chamber for underground C .I. inspection chamber and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg), R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 Fine sand : 3 graded stone aggregate 20 mm nominal size) , foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand), finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design : 19.30.1 Inside dimensions 455x610 mm and 45 cm deep for single pipe line : 19.30.1.1 With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	1.00	Each	6061.95	


 14.3.22
 कार्यपालक अभियन्ता (भ० एवं आ०)
 Executive Engineer (B&I)
 स० प्र० के० कु० वि०, पूसा
 B.P.C.A.U. Pusa
 14/3/22



BILL OF QUANTITY				
Name of work	Estimate for renovation of NC1-35 at Dr RPCAU PUSA			
Estimated cost	1,07,315.00	Sold to		
Earnest money	2200.00	Address		
Cost of Boq	500.00	DD No.		
Time of completion	15 Days	Rs		
S.NO	Description of Item	Quantity	Unit	Rate
1	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	334.1	sqm	14.2
2	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge With cement mortar 1:4 (1 cement: 4 coarse sand)	33.4	sqm	429.6
3	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	66.82	sqm	115.15
4	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade : Two or more coats on new work			
	area vide item no 1	334.1	sqm	128.65
5	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 the gaps at junctions, i.e. at top, bottom 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 / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :	33.9	kg	423.95
6	Fly proof stainless steel grade 304 wire gauge with 0.5 mm dia. wire and 1.4mm wide aperture with matching wood beading.	4.85	sqm	1458.6
7	Painting wood work with Deluxe Multi Surface Paint of required shade . Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.75 ltr/10 sqm of approved brand and manufacture	64.95	sqm	130.25
8	Painting Steel work with Deluxe Multi Surface Paint to give an even shade . Two or more coat applied @ 0.90 ltr/ 10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand and manufacture			
	grill in windows	8.98	sqm	125.8
9	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 black solid plastic seat and lid	1	nos	5410.55
10	Nerolac perma No Damp chemical	1	nos	600
11	Tiles cleaner for bathroom	1	nos	500


 14.3.22
 कार्यपालक अभियन्ता (भ० एवं आ० सं०)
 Executive Engineer (B&I)
 रा० प्र० के० कु० वि०, पूसा
 R.P.C.A.U. Pusa
 14/3/22

BILL OF QUANTITY				
Name of work	Renovation of qtr no nc1-31 AND NC1-33			
Estimated cost	1,70,266.00	sold to		
Earnest money	3500.00	address		
cost of boq	500.00	D.D. NO		
Time of completion	15 Days	RS		
Sl. No	Description	Qty.	Unit	Rate
1	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete			
		366.69	M2	14.20
2	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer , over the plastered wall surface to prepare the surface even and smooth complete.			
		110.01	M2	115.15
3	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade :Two or more coats on new work			
		366.69	M2	128.65
4	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq.meters and under , including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground , all complete as per direction of Engineer -in-Charge. With cement mortar 1:4 (1 cement : 4 fine sand)			
		16.52	M2	417.80
5	S F F CP Brass Bib cock of approved quality including taxes carriage etc all complete as per spec and direction of E/I. General brand			
		1.00	Nos	450.00
6	S F F CP Brass Stop cock of approved quality including taxes carriage etc all complete as per spec and direction of E/I.			
		1.00	Nos	650.00
7	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications : Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/10 sqm of approved brand and manufacture			
		77.52	M3	125.80

Q

8	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications : Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/ 10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand and manufacture			
	Grill	21.60	M2	84.75
9	TILES CLEANER FOR BATHROOM	1.00	NOS	500.00


 14.3.22
 कार्यपालक अभियन्ता (भ०एवं आ०सं)
 Executive Engineer (B&I)
 रा०प्र०के०कृ०वि०, पूसा
 R.P.C.A.U. Pusa

 14/3/22

BILL OF QUANTITY

1. Name of work :- Construction of plateform for 200KVA transformer at Boy's hostel at Pusa under Dr. RPCAU, Pusa

2. Estimated cost:- Rs 47820.00

Sold to:

3. Earnest Money:- Rs. 1000.00

Adress:

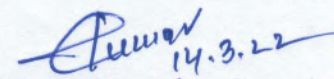
4. Cost of B.O.Q :- Rs. 250.00

Reg. No.

5. Time of completion :- One months

M.R No.

Sl. No.	Discription	Qnty.	Unit	Rate	Amount
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.	1.07	Sqm	252.3	
2	Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.	3.71	Sqm	323.9	
3	Providing 100A one brick flat soling joint filled with local sand all complete.	7.365	Sqm	348.42	
4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : M100 grade.	1.13	Cum	6788.8	
5	Brick work with common burnt brick in superstructure im C.M 1:6	2.2	Cum	6157.65	
6	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	93	Kg	86.05	
7	Providing and fixing G .I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge. Made of G.I. wire of dia 4 mm	11.76	Sqm	797.2	
8	12 mm cement plaster finished with a floating coat of neat cement of mix 1:4	15.8	Sqm	328.25	


 14.3.22
 कार्यपालक अभियन्ता (भ० एवं आ० सं०)
 Executive Engineer (B&I)
 रा० प्र० के० कृ० वि०, पूसा
 R.P.C.A.U. Pusa
 14/3/22

BIL of quantity				
Name of work :-Temporary urinal in Headquarter during LDC & Junior Account Clerk test under RPCAU,Pusa				
Estimated cost :-24902.00			sold to	
Earnest money :-Rs. 1,000.00 500.00			Adress	
Cost of BOQ :-Rs.250.00			Regd.no	
Time of completion: - 07 days			M.R.No	
sl no	Items	qnty	Unit	Rate
1	Providing old dura shine colour coted/GCI roof sheet with thickness .45mm including nail,rope Hook all complete(but excluding the cost of dura shine /GCI sheet) job as per specification and direction of E/I.	34.08	sqm	10
2	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes,			
	15 mm nominal outer dia Pipes	9	m	202.8
	25MM nominal dia	9	m	326.6
3	providind bamboo, and other accesaries to errect frame for urinal and taking out after SSS test up to lead of 1 km in w/s store all complete	7	job	300
4	S F F P V C angle cock all complete	9	each	150
5	S F F P V C bib cock all complete	3	each	150
6	S F F P V C gate valve all complete	1	each	350
7a	S F F 110mm dia P V C pipe and fittingsall complete	12	m	250
b	100mm bend	4	each	225
c	100mm T	7	each	275
8a	Providing and fixing white vitreous china squatting plate urinal withintegral rim longitudinal flush pipe.			
	ladies section urinal new	3	each	500
b	gents section old (dept. supply) coupling and waiste pipe new	4	each	500
c	hand wash basin old (dept.supply) coupling and waiste pipe new	2	each	500
d	basin pedestral 1 no new	1	each	100
9	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/ 10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand and manufacture	16.32	sqm	125.8

4.3.22
 कार्यपालक अभियन्ता (भ० एवं आ० सं०)
 Executive Engineer (B&I)
 स० प्र० के० कु० वि०, पूसा
 RPCAU, Pusa

BILL OF QUANTITY

Name of work:-New connection in new building of Ganga Girls Hostel at RPCAU, P

Estimated cost :-67695.00

Earnest money :-Rs ~~2000.00~~ 1,450.00

Cost of BOQ :-Rs 500.00

Time of completion: - 15 days

sold to

Address

Regd.no

M.R.No

sl no	items	qnty	unit	rate
1	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge.			
	25mm	93	m	370.65
	50mm	24	m	811.85
2	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) ball valve/gate valve This includes jointing of pipes & fittings with one step CPVC solvent cement ,refilling & testing of joints complete as per direction of Engineer in Charge.			
		6	each	1200
3	Providing and fixing brass ball cock. This includes jointing of pipes & fittings with one step ,refilling & testing of joints complete as per direction of Engineer in Charge.			
		6	each	1090

Punam
14.3.22

कार्यपालक अभियन्ता (भ० एवं आ० सं०)
Executive Engineer (B&I)
रा० प्र० के० कु० वि०, पूसा
R.P.C.A.U. Pusa

14/3/22

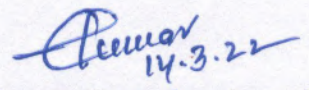
BILL OF QUANTITY

Name of work :	Internal Electrical Installation in Pusa House at DRPCAU, Pusa			
Estimated cost:	4,22,890.00	Sold to M/S		
Earnest Money:	8500.00	Address		
Cost of B.O.Q :	750.00	Registration No.		
Time of Completion:	One Month	M.R.No.	date	
S.N	Items of work	Quantity	Unit	Rate
1.	Wiring for light point/fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit with piano type switch, phenolic laminated sheet, suitable size M.S. box and earthing the point with 1.5 Sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.			
	Group-A	06 Nos.	Each	694.00
	Group-B	09 Nos.	Each	759.00
	Group-C	06 Nos.	Each	966.00
2.	Wiring for light point/fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit with modular switch, modular plate, suitable GI box and earthing the point with 1.5 Sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.			
	Group-A	03 Nos.	Each	717.00
	Group-B	09 Nos.	Each	783.00
	Group-C	17 Nos.	Each	990.00
3.	Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.			
	2x2.5 Sq.mm + 1x2.5 Sq.mm earth wire	255 M	Per M	167.00
	2x4.0 Sq.mm + 1x4.0 Sq.mm earth wire.	19 M	Per M	200.00
	2x6.0 Sq.mm + 1x6.0 Sq.mm earth wire.	28 M	Per M	249.00
	4x10.0 Sq.mm + 2x6.0 Sq.mm earth wire.	13 M	Per M	543.00
4.	Supplying and fixing following piano type switch/socket on the existing switch box/cover including connections etc. as reqd.			
	15/16 Amp. Switch	11 Nos.	Each	110.00
	6 pin 15/16 Amp. Socket outlet	05 Nos.	Each	128.00
5.	Supplying and fixing following piano type switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc. as reqd.			
	5/6 A switch	24 Nos.	Each	85.00
	3 pin 5/6 A socket outlet	10 Nos.	Each	111.00
	15/16 A switch	05 Nos.	Each	132.00
	6 pin 15/16 A socket outlet	05 Nos.	Each	175.00
6.	Supplying and fixing 3 pin 5 A ceiling rose on the existing junction box/wooden block including connections etc. as reqd.	19 Nos.	Each	65.00
7.	Supplying and fixing brass batten/angle holder including connection etc. as required.	42 Nos.	Each	117.00
8.	Supplying and fixing 20 A, 240 V, SPN Industrial type socket outlet, with 2 pole and earth, metal enclosed plug top along with 20 A "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	08 Nos.	Each	1232.00
9.	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 volts, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required			



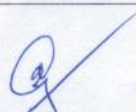
	(Bud without MCB/ RRCB/Isolator)			
	6 way, Double door	01 No.	Each	1661.0
10.	Supplying & fixing 5 A to 32 A rating, 240/415,10KA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.			
	Single Pole	04 Nos.	Each	199.0
	Single Pole & Neutral	02 Nos.	Each	544.0
11.	Providing and fixing of Ceiling fan (1400mm) including connection etc. as required. Bajaj/Havells/Crompton	01 Nos.	Each	2575.0
12.	Providing and fixing of Ceiling fan (800mm) including connection etc. as required. Bajaj/Havells/Crompton	01 Nos.	Each	3800.0
13.	Supplying, fitting and fixing of Step fan regulator in the existing board connection etc as required.	03 Nos.	Each	310.0
14.	Providing and fixing of LED Tube light 20 watt including connection etc. as required Bajaj/Syska/Philips	17 Nos.	Each	542.0
15.	Supplying, fitting and fixing of 9 watt Led Console light including connection etc. as required.	15 Nos.	Each	900.0
16.	Supplying, fitting and fixing of 60 watt LED light full complete set with bracket street light including connection etc as required.	10 Nos.	Each	10137.0
17.	Supplying, fitting and fixing of 30 watt LED light full complete set with bracket street light including connection etc as required.	02 No.	Each	3495.0
18.	Supplying, fitting and fixing of 9 watt LED bulb including connection etc. as required.	54 Nos.	Each	225.0
19.	Supplying, fitting and fixing of 15 watt LED bulb including connection etc. as required.	10 Nos.	Each	466.0
20.	Supplying, fitting and fixing of armoured 10sqm. aluminium twin core including connection etc. as required.	120 Mtrs.	Mtr.	198.0
21.	Supplying, fitting and fixing of armoured 4sqm. aluminium twin core including connection etc. as required.	60 Mtrs.	Mtr.	32.00
22.	Supplying, fitting and fixing of Hyleen Sheet including connections etc. as required.	2500Sq inch	Sq. Inch	0.73
24.	Providing and fixing of 100 amps kit kat including connection etc. as required.	03 No.	Each	1025.0
25.	Providing and fixing following capacity 2 pole/ 4 pole OFF-load changeover switches with side handle operation, in sheet enclosure in existing metal board including drilling holes in metal board, making connection, earthing the body etc as required.			
	100 amps, 4 pole	02 No.	Each	13986.0
26.	<p>S/F/F of LT PANEL 1 of suitable size MS Panel Box with the items listed below which is suitable for operation at 415+6%-6% volts, 50 Hz 3-phase, 4-wire+E system. The panel shall be fabricated out of 1.6 mm. CRCA sheet steel. Panel will be free standing, floor mounting type having provision for cable entry from bottom and suitable for indoor/ outdoor installation. The panel will be extensible type in design with dust and vermin proofing. The switchgear frame shall be fabricated using mild steel structure sections of pressed and shaped cold rolled sheet of thickness not less than 2mm.</p> <p>Frame shall be enclosed by sheet steel of thickness not less than 2mm. Cold rolled smoothly finished levelled and free from flaws, doors and covers shall be cold rolled sheet. Cut – Outs shall be true in shape and devoid of sharp edges.</p> <p>Paint: - 70 micron Powder coating after 7 tank chemical treatment. Bus bars shall be uniform cross section throughout the length of the switchgears and will be housed in a separate compartment. The bus bars shall be of High Conductivity Electrical Alu Flats as per specification and shall be supported on SMC/DMC supports of suitable thickness. Bus bars will be installed with heat shrinkable sleeves and codified in Red, yellow, Blue and Black colors as per standard practice. Bus Bars shall be adequately supported to withstand the stresses arising during transient conditions.</p> <p>1) Electrical control panel front side operation as per IP42, fabricated out of 16 gauge</p>			

	M.S sheet			
	2) 125 Amp TP MCCB			
	3) Spreader			
	4) Digital Amp meter			
	5) ASS			
	6) Digital Voltmeter			
	7) VSS			
	8) R,Y,B Led indication			
	9) 125/5A, 15Va C.T. Coil			
	10) 6Amp SP MCB			
	11) 63Amp TPN MCB			
	12) 32 Amp SPN MCB			
	13) 125A FP Copper busbar			
		01 no	Each	79829.0



 14.3.22
 Executive Engineer (B&I)
 R.P.C.A.U. Pusa
 रा० प्र० के० कु० वि०, पु०
 R.P.C.A.U. Pusa
 14/3/22

BILL OF QUANTITY

Name of work	Internal Electrical Installation in New Hostel (West Side) at DRPCAU, Pusa				
Estimated Cost	Rs.1,66,671.00	Sold to M/S			
Earnest Money	Rs. 40000.00 3,500.00	Address:			
Cost of B.O.Q	Rs.500.00	Registration No.			
Time of Completion	One month	M.R/D.D.No. date			
S.N.	Items of work	Quantity	Unit	Rate	Amount
1.	Wiring for light point/fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit with piano type switch, phenolic laminated sheet, suitable size M.S. box and earthing the point with 1.5 Sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.				
	Group-A	25 Nos.	Each	694.00	
	Group-B	14 Nos.	Each	759.00	
	Group-C	07 Nos.	Each	966.00	
2.	Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.				
	2x1.5 Sq.mm + 1x1.5 Sq.mm earth wire	05 M	Per M	146.00	
	2x2.5 Sq.mm + 1x2.5 Sq.mm earth wire	225 M	Per M	167.00	
	2x4.0 Sq.mm + 1x4.0 Sq.mm earth wire.	100 M	Per M	200.00	
3.	Supplying and fixing following piano type switch/socket on the existing switch box/cover including connections etc. as reqd.				
	5/6 A switch	35 Nos.	Each	45.00	
	3 pin 5/6 A Socket outlet	35 Nos.	Each	58.00	
	15/16 Amp. Switch	21 Nos.	Each	110.00	
	16/16 Amp. Swocket	21 Nos.	Each	128.00	
4.	Supplying and fixing 3 pin 5 A ceiling rose on the existing junction box/wooden block including connections etc. as reqd.	16 Nos.	Each	65.00	
5.	Supplying and fixing brass batten/angle holder including connection etc. as required.	30 Nos.	Each	117.00	
6.	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 volts, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required (Bud without MCB/ RRCB/Isolator)				
	6 way, Double door	07 No.	Each	1661.00	
7.	Supplying & fixing 5 A to 32 A rating, 240/415, 10KA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
	Single Pol	14 Nos.	Each	199.00	
	Single Pole & Neutral	07 Nos.	Each	556.00	
8.	Providing and fixing following capacity double pole/TP&N sheet metal switch disconnect or fuse unit in existing metal board with rewire able type fuse, including drilling holes in metal board, making connections, etc. as reqd.				
	63 Amps, TP&N	01 No.	Each	5225.00	



S.N.	Items of work	Quantity	Unit		Amount
9.	Providing and fixing following Capacity busbar chamber with 4 strips of suitable size made of copper heavy duty complete with all accessories including connections, earthing the body etc. as reqd.				
	63 Amps.	01 No.	Each	3161.00	
10.	Supplying, fitting and fixing of Step fan regulator in the existing board connection etc as required.	07 Nos.	Each	310.00	
11.	Earthing with Chemical earthing including accessories, and providing masonry enclosure with cover plate having locking arrangement and earthing electrode of 2.7 meter long etc with charcoal/koke and salt as required.	01 Set	Set	11794.00	
12.	Providing and Laying Earth connection from earth electrode with 4.00 mm copper wire 15 mm dia GI/PVC Pipe from earth electrode including earth connection with copper thimble excavation and re-filing as required.	25Mtr.	Per M	257.00	
13.	Supplying and laying XLPE/PVC insulated PVC sheated (Heavy Duty) armoured electrical cable with aluminium conductor wfor working voltage upto and including 1100 volts conforms to IS : 1554, part-1				
	16 Sq.mm, 4.00 core	30 Mtr.	Per M	295.00	
14.	S/F/F of 30 watt LED light including connections etc. as reqd. on the existing board.	01 No.	Each	3495.00	
15.	S/F/F of PVC Boards.				
	4"X5"	21 Nos.	Each	50.00	


 14.3.22
 कार्यपालक अभियन्ता (संगठन शाखा)
 Executive Engineer (B & I)
 DIRECTOR, PUSA
 रा.प्र.क.कृ.वि., पूसा
 R.P.C.A.U. Pusa
 14/3/22

BILL OF QUANTITY

Name of work:-new connection in kisan vidyapeeth at DRPCA, PUSA

Estimated cost :-174115.00

Earnest money :-Rs ~~4000~~ **3,500.00**

Cost of BOQ :-Rs 500.00

Time of completion: -one month

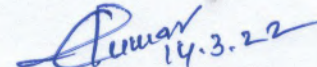
sold to

Adress

Regd.no

M.R.No

sl no	items	qnty	unit	rate
1	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge.	201.3	M	559.2
	40MM	108.5	M	370.65
2	Constructing brick masonry chamber for underground C.I. inspection chamber and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610mm internal dimensions, all complete.	1	EACH	10103
3	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) BALL VALVE .This includes jointing of pipes & fittings with one step CPVC solvent cement & testing of joints complete as per direction of Engineer in Charge	3	EACH	1200
4	Providing and fixing BRASS BALL COCK .This includes jointing of pipes & fittings with one step CPVC solvent cement & testing of joints complete as per direction of Engineer in Charge	7	EACH	1090
	25MM			


कार्यपालक अभियन्ता (भ० एवं आ० सं०)
Executive Engineer (B&I)
 रा० प्र० के० कु० वि०, पूसा
 DRPCA, PUSA
 14/3/22

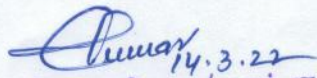
BILL OF QUANTITY				
Name of work	Renovation of old c1-58 under Dr. RPCAU, Pusa.			
Estimated cost	3,65,149.00	sold		
Earnest money	7400.00	address		
cost of boq	750.00	dd no		
Time of completion	01 Month	RS		
Item no	Description of Item	Qty.	Unit	Rate
1	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead : Of area 3 sq. metres and below	5	each	274.5
2	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge. Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)			
		2.10	cum	1737.45
3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)			
		2.10	cum	6788.6
4	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete .			
		696.92	sqm	14.2
5	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq.meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the wall complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge With cement mortar 1:4 (1 cement: 4 coarse sand)			
		209.07	sqm	307.4
6	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.			
		480.19	sqm	115.15
7	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade : Two or more coats on new work			
		696.92	sqm	128.65
8	Painting wood work with Deluxe Multi Surface Paint of required shade . Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.75 ltr/10 sqm of approved brand and manufacture			
		42.33	sqm	130.25

9	Providing and fixing water closet squatting pan (european type W.C.pan) with 100 mm sand cast Iron P or S trap, 10 litre low level whiteP.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: White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests			
		1	each	5140.55
10	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required White Vitreous China Flat back wash basin size 550x400 mm with single 15 mm C.P. brass pillar tap			
		1	each	2510.45
11	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS : 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required : 610x460 mm bowl depth 200 mm			
		1	each	2828.75
12	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with sealing conforming to IS : 5382, leaving 10 mm gap for thermal expansion,			
	75mm dia	10	M	201.1
	110mm dia	25	M	305.05
13	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion			
	110MM Dia bend	6	each	129.85
	110 mm dia T WITH DOOR	4	each	203.3
14	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement: 4 coarse sand) and making good the wall etc. complete.			
		10	each	288.8
15	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per			
	20 mm dia Pipes	35	m	306.95
16	Providing and fixing C.P. brass bib cock of approved quality conforming to IS: 8931 : 15 mm nominal bore			
		5	each	418.95

17	Providing and fixing brass stop cock of approved quality	4	each	326.45
18	S/F/F CP Brass shower rose of approved quality including taxes carriage etc all complete as per spec and direction of E/L.	1	each	400
19	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer. Using M.S. angles 40x40x6 mm for diagonal braces	1.88	sqm	4519.2
20	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer. Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).	50.35	kg	106.45
21	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with : 4.0 mm thick glass panes	3	sqm	900.55
22	S/F/F Steel jali of diameter 150mm all complete as per specification and direction of E/L	3	each	90
23	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 12 mm 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.			



	final area	20.72	sqm	1030.3
24	Providing and laying rectified 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 all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick bed of cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigments etc., complete.			
		10.39	sqm	1080.8
25	Refixing all doors and windows	8	nos	500
	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 :1:1.5:3 (1 cement : 1.5 coarse sand (zone-III): 3 graded stone aggregate 20 mm nominal size)			
		0.1485	M3	7718.25
26	Steel reinforcement for R .C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level . Thermo-Mechanically Treated bars of grade Fe -500D or more			
	1% *0.146*7850	11.46	KG	83.5
27	Centering and shuttering including strutting, propping etc. and removal of form for :Shelves (Cast in situ)	1.98	SQM	693.05
28	Brick work with common burnt clay F .P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:6 (1 cement : 6 coarse sand)			
		0.21	M3	7590.45
30	Providing and fixing Metal jet for EWS all complete job as per specification and direction of E/I	1.00	each	600.00
31	Painting Steel work with Deluxe Multi Surface Paint to give an even shade . Two or more coat applied @ 0.90 ltr/ 10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand and manufacture			
		1.88	M2	125.80
32	Revoval of tree and making the surface same all complete work	6.00	nos	1000.00
33	12 mm cement plaster finished with floating coat of neat cement of mix			
		51.15	sqm	328.25


 14.3.22
 कार्यपालक अभियन्ता (भ०एवं आ०सं०)
 Executive Engineer (B&I)
 रा०प्र०के०कृ०वि०, पूसा
 R.P.C.A.U. Pusa
 14/3/22

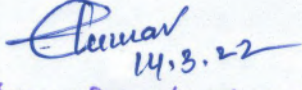
BILL OF QUANTITY

Name of work				
Renovation of quarter no ND -70 under DR RPCAU PUSA				
Estimated cost	2,15,217.00	sold to		
Earnest Money	4500.00	Address		
Cost of Boq	500.00	D.D No		
time of completion	01 Month	RS		
S.NO	Description of Item	Qty.	Unit	Rate
1	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead : Of area 3 sq. metres and below	2	each	274.5
2	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge. Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	0.56	cum	1737.45
3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)	0.56	cum	6788.6
4	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	298.88	sqm	14.2
5	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge With cement mortar 1:4 (1 cement: 4 coarse sand)	78.00	sqm	429.6
7	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	277.43	sqm	115.15
8	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade : Two or more coats on new work	277.43	sqm	128.65
9	Painting wood work with Deluxe Multi Surface Paint of required shade Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.75 ltr/10 sqm of approved brand and manufacture	62.27	sqm	130.25
10	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 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: White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	1	each	5421.5
11	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require White Vitreous China Flat back wash basin size 550x400 mm with single 15 mm C.P. brass pillar tap	1	each	2510.45
12	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS:13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required : 610x460 mm bowl depth 200 mm	1	each	2828.75
13	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with sealing conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.			



	110mm dia	5	M	305.05
14	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion			
	110MM Dia bend	3	each	129.85
	110 mm dia T WITH DOOR	1	each	203.3
15	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement: 4 coarse sand) and making good the wall etc. complete.			
		5	each	288.8
16	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.			
	20 mm nominal outer dia Pipes	15	m	306.95
17	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 : 15 mm nominal bore			
		3	each	418.95
18	Providing and fixing brass stop cock of approved quality			
		4	each	326.45
19	S/F/F CP Brass shower rose of approved quality including taxes carriage etc all complete as per spec and direction of E/I.			
		1	each	400
20	S/F/F ACP door with aluminium chaukhat including locking arrangement all complete	2.66	sqm	4519.2
21	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 the gaps at junctions, i.e. at top, bottom 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 paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) : For fixed portion Anodised aluminium (anodised transparent or dyed to required shade according to IS:1868, Minimum anodic coating of grade AC			
		27	kg	423.95
22	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item). With float glass panes of 4.0 mm thickness (weight not less than 10 kg/ sqm)			
		3.98	sqm	999.6
23	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with : 4.0 mm thick glass panes			
		0.96	sqm	900.55
24	S/F/F Steel jali of diameter 150mm all complete as per specification and			
		3	each	90
25	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 12 mm 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.			

		26.82	sqm	1030.3
26	Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in colours White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement: 4 Coarse sand), jointing with grey cement slurry @ 3.3kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.			
		11.21	sqm	1088.8
27	Refixing all doors and windows	8	nos	500
28	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 above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size).			
		0.079	cum	9763.8
29	Steel reinforcement for RCC work			
		7	mt	83.5
30	centering and shuttering including removal of prop.	1.05	sqm	693.05

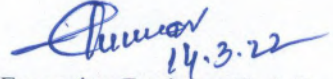

 14.3.22
 कार्यपालक अभियन्ता (भ०एवं आ०स०)
 Executive Engineer (B&I)
 रा०प्र०के०क०वि०, पुसा
 R.P.C.A.U. Pusa
 14/3/22

BILL OF QUANTITY

Name of work	Internal Electrical Installation in Qtr. No. OC ₂ -34 and New D.Type-73 at DRPCA, Pusa				
Estimated Cost	Rs.1,23,350.00	Sold to M/S			
Earnest Money	Rs.2,500.00	Address:			
Cost of B.O.Q	Rs.500.00	Registration No.			
Time of Completion	One month	M.R/D.D.No. date			
S.N.	Items of work	Quantity	Unit	Rate	Amount
1.	Wiring for light point/fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit with piano type switch, phenolic laminated sheet, suitable size M.S. box and earthing the point with 1.5 Sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.				
	Group-A	18 Nos.	Each	694.00	
	Group-B	19 Nos.	Each	759.00	
	Group-C	09 Nos.	Each	966.00	
2.	Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.				
	2x2.5 Sq.mm + 1x2.5 Sq.mm earth wire	285 M	Per M	167.00	
	2x4.0 Sq.mm + 1x4.0 Sq.mm earth wire.	04 M	Per M	200.00	
3.	Supplying and fixing following piano type switch/socket on the existing switch box/cover including connections etc. as reqd.				
	5/6 A switch	24 Nos.	Each	45.00	
	3 pin 5/6 A Socket outlet	24 Nos.	Each	58.00	
	15/16 Amp. Switch	10 Nos.	Each	110.00	
	16/16 Amp. Swocket	10 Nos.	Each	128.00	
4.	Supplying and fixing 3 pin 5 A ceiling rose on the existing junction box/wooden block including connections etc. as reqd.	18 Nos.	Each	65.00	
5.	Supplying and fixing brass batten/angle holder including connection etc. as required.	29 Nos.	Each	117.00	
6.	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 volts, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required (Bud without MCB/ RRCB/ Isolator)				
	12 way, Double door	02 No.	Each	2053.00	
7.	Supplying & fixing 5 A to 32 A rating, 240/415, 10KA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
	Single Pol	20 Nos.	Each	199.00	
	Single Pole & Neutral	02 Nos.	Each	544.00	
8.	Earthing with G.I earth pipe 4.5 meter long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc.(with charcoal/ coke and salt) as required.	02 Set	Per Set	5308.00	
9.	Providing and Laying Earth connection from earth electrode with 4.00 mm copper wire 15 mm dia GI/PVC Pipe from earth electrode including earth connection with copper thimble excavation and re-filing as required.	25 M	Per M	257.00	



S.N.	Items of work	Quantity	Unit	Amount
10.	Supplying, fitting and fixing of Step fan regulator in the existing board connection etc as required.	08 Nos.	Each	310.00
11.	S/F/F of PVC Boards.			
	7"x4"	08 Nos.	Each	60.00
	4"x5"	11 Nos.	Each	50.00
	4"x4"	04 Nos.	Each	40.00


 14.3.22
 Executive Engineer (B & I)
 DRPCA U. PUSA
 रा.प्र.के.कं.वि.०, पूसा
 R.P.C.A.U. Pusa
 14/3/22

(A.) List of Enclosers:-

- a) Details of earnest Money deposited:-
- b) Registration No. :-
(Certified copy to be enclosed)
- c) GST Clearance Certificates:-
- d) License Issued by the labour Deptt. :-
- e) Detailed of documents attached:-
- f) Name and address of the Contractor:-
- g) Signature of tenderers:-

I/We as per the execute the work at :-

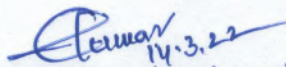
- I. Estimated/Analysis rates shown in the Bill of Quantities.
- II. (i) In word _____Percent above the rates show in the bill of quantities.
(ii) In figure _____Percent above the rates shown in the bill of quantities.
- III. (a) In word _____Percent below the rates shown in the bill of quantities.
(b) In figure _____Percent below the rates shown in the bill quantities.

I/we will completed the work within _____calendar months from the date of work order.

I/we have read and fully understood the terms and condition of the state (P.W.D) contract from F2 and the N.I.T and special condition attached herewith.

Name & full signature of the Tenderer

- i. No. of Cutting
- ii. No. of over writing
- iii. Rate quoted by agency


14.3.22
कार्यवाही अधिकारी (B&I)
Executive Engineer (B&I)
Dr. R.P.C.A.U. Pusa
संयोजक, कुंआंवो, पूसा
R.P.C.A.U. Pusa
14/3/22

Executive Engineer (B&I)
Dr. RPCAU Pusa

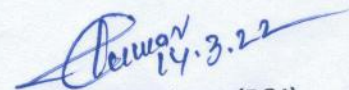
**Dr. RAJENDRA PRASAD CENTRAL AGRICULTURAL
UNIVERSITY PUSA BIHAR
(SAMASTIPUR) 848125**

SPECIAL CONDITION

1. Tenders not complete as per requirements will be our right to rejected and their tender will not be considered.
2. The tenders are required to quote no item wise but overall on percentage basis I.e. above or below estimated rates/B.O.Q rates.
3. Rates quoted less more than 10% of schedule rate cost shall out right be rejected.
4. The undersigned reserves the right to divide the tender among more than one tenders and to reject may or all the tenders without assigning any reason there of.
5. Tenderers shall quote their rates both in figures and words and should initial all correction, over writings, incorporations, undefined form like estimated rates will not be considered.
6. The rates quoted by the contractors should be inclusive all taxes. Royalties and other incidental charges.
7. The contractor should quote in their tender:-
 - a) The plants and Machinery they possess execution of works.'
 - b) Experience they have with detail of works and its position.
 - c) Certificate, if any, about the capacity of doing works.
 - d) Technical staff, if they possess.
8. The contractors should satisfy them selves fully about the nature and site of works before offering their tenders and plent of any ignorance after works shall not be considered.
9. The tender without earnest money or insufficient earnest money or submitted late or earnest money without duly pledged as required will be out right rejected.
10. Contractors are required to furnish up to date clearance certificate in respect of I.T and S.T along with their tender, In absence of those documents within ten days from the days from the date of requisition in a registered letter with A/D failing which their tenders shall be outright rejected and their earnest money furnished with the tenders shall be forfeited.
11. Conditional tenders shall be outright rejected.
12. After approval of rated by the competent authority the contractor shall have to deposit the initial security money @ 5% of B.O.Q cost in shape of N.S.C dully pledged in favour of undersigned within 10 days of issue of the written orders from the engineer-in-charge and agreement, failing which his tender shall he reject and earnest money forfeited.
13. No claim for delay in work due to shortage of labour, non supply of materials, drawing & design and/ or any other reason shall not be entertained.
14. The contractors shall arrange necessary site for accommodation and after facilities like medical, aid etc. for his own cost and initiative as well as with labour rules prevalent in the salacity.
15. The contractor shall be responsible for safety of his labour or other staff and the damages shall be recovered at his own cost.
16. The CPWD specification ISS specification shall be followed during the progress of the work in case of difference of opinion in any of them the directions of the Engineer-in-charge have to be followed.



17. No claim shall be entertained due to fluctuation in rates of labour and materials at any time till completion of the work.
18. Materials recoverable or non-recoverable direct issued to work shall be issued to the contractor in proper/R. If materials are obtained in excess of natural requirement the recovery of the cost of such materials will be made at double the issue rates stipulated in the agreement.
19. The contractor employing truck for carriage of materials of other work shall comply the rules of motor vehicle etc.
20. It will be obligatory on the part of the tender to keep the Tender open for a period as per C.P.W.D rule for acceptances.
21. The contractor shall not be entitled to claim or compensating for any loss suffered by him due to:-
 - a) Natural claim item.
 - b) Act or enemy.
 - c) Transport and procurement difficulties.
 - d) Circumstances beyond the control of the University.
22. Site order book with numbered pages and bearing the certificates of the need by the contractor at the site of work will have to be produced, if the engineer-in-charge or inspecting officer desire for instruction. Concerning the work to not entered. This shall be property of the university after completion of work.
23. No work beyond agreement shall be expected by the contractor unless specifically ordered by the engineer-in-charge in writing and the claim for such work shall be submitted regularly in every month. If the claim is not received in the month in which it relates it will be treated as barred and may be disallowed.
24. Income Tax @ 2.27% or as per govt. rule to be deducted from each payment at sources which will be adjusted by income tax department at the time of assessment in case of contract.
25. Sales Tax/GST shall be deducted from each bill as per rules.
26. Labour cess Tax @ 1% shall be deducted from each bill as per rules.
27. Contractors shall have to furnish payment certificate or mining taxes of materials consumed in the work otherwise deduction towards royalty and cess shall be made as per rules.
28. Deduction of five percent of the gross amount of the bill will be deducted from their running bills so as to make the total security deposit @ ten percent of the cost of work. No part of these security deposit shall be refunded until the work is fully completed and the final bill disposed or fifty percent of the amount of security deposit shall be released after three months of satisfactory performance during defect liability period of six months/ one rainy season from the date of completion of work.
29. Additional performance Guarantee have to deposit as per Govt. rule.
30. Payment will be made after work completion certificate obtained from requisitioner and also availability of fund.
31. Work will not be allotted to those Contractors who could not execute agreement of awarded work and those contractors who could not complete the awarded work within agreement time. Such Agencies shall be debarred from panel of ARC for a period of three years and Earnest Money will be forfeited.


 Executive Engineer (B&I)
 Dr. R.P.C.A.U. Pusa.
 Executive Engineer (B&I)
 रा.प्र.के.कुं.वि., पुसा
 R.P.C.A.U. Pusa
 14/3/22