

**PDFZilla – Unregistered**

**PDFZilla - Unregistered**

**PDFZilla - Unregistered**

## BILL OF QUANTITY

## Name of Work : REPAIR, RENOVATION WORK OF ABM COLLEGE AT JAMSHEDPUR

Sl. No.	Item No.	Description of works	Quantity	Unit	Rate (In Rs.)	Amount
A1	JR 5.1.1	Earthwork in excavation in foundation trenches in ordinary soil (vide classification of soil item - A) and disposal of excavated earth obtained to a distance up to 50M including all lifts with leveling ramming the foundation trenches removing roots of trees shrubs all complete as per approved design and per building specification and direction of E.I.	Total	40.81	M <sup>3</sup>	102.10
A2	JR 5.1.7	Earth filling in foundation trenches and plinth in layer not exceeding 150mm thick will watered rammed fully compacted and fine dressed with earth obtained from excavation of foundation trench with a lead of 50mm and lift of 1.5M all complete as per building specification and direction of E.I. (Mode of measurement compacted volume).	Total	27.21	M <sup>3</sup>	57.17
A3	JR 5.1.10	Providing coarse clean sand infundation trenches or in plinth including ramming and watering in layers not exceeding 50 mm thick with all leads and lifts including cost of all materials, labour, royalty and taxes all complete as per building specification and direction of E.I	Total	40.81	M <sup>3</sup>	1011.3957
A4	JR 5.2.14	Providing designation 75B Brick work in c.m. (1:6) superstructure and plinth with approved quality of clean coarse sand of F.M. 2 to 2.5 including providing 10mm thick mortar joints, cost of screening materials, scaffolding raking out joints to 15mm depth, curing taxes and royalty all complete as per building specification and direction of E.I.	Total	16.47	M <sup>3</sup>	228.47
A5	JR 5.3.3	Providing P.C.C M-100 with nominal mix of (1:3:6) in foundation with approved quality of stone metal grade - III (50 mm to 25 mm. Size) clean coarse sand of F.M. 2.5 to 3 including screening, shattering, mixing cement concrete in mixer and placing in position, vibrating, striking, curing, taxes and royalty all complete as per building specification and direction of Engineer-in-charge	Total	25.40	M <sup>3</sup>	4188.87

*S. S. Mohanty**N.P. N.F*

A6	JR 5.3.5.1	Providing R.C.C. M-200 with normal mix of (1:1.5:3) in foundation and plinth with approved quality of stone chips 20mm to 6mm size graded and clean coarse sand of F.M. 2.5 to 3 including screening, shattering, mixing cement concrete in mixer and placing in position, vibrating, curing, (but excluding the cost of reinforcement, taxes and royalty all complete, as per building specification and direction of E.I. taxes and royalty all complete job as per building specification and direction of E.I.	Total	6.340	M <sup>3</sup>	6543.32	41484.6488
A7	JR 5.3.6.1	Providing R.C.C.M-200 in band at plinth level with approved quality of stone chips 20 mm to 6 mm, size graded and clean coarse sand of F.M. 2.5 to 3 including screening, Shattering, mixing cement concrete in mixture and placing in position, vibrating, striking, curing (but excluding the cost of reinforcement, taxes and royalty all complete, as per building specification and direction of E.I)	Total	2.36	M <sup>3</sup>	7086.37	16723.8332
A8	JR 5.3.9.1	Providing R.C.C. M-200 with nominal mix of (1:1.5:3) in roof slab with approved quality of stone chips 20 mm to 6 mm, size graded and clean coarse sand of F.M. 2.5 to 3 including screening, shattering, mixing cement concrete in mixture and placing in position, vibrating, striking, curing (but excluding the cost of reinforcement, taxes and royalty all complete, as per building specification and direction of E.I)	Total	1.280	M <sup>3</sup>	8235.61	10541.5808
A9	JR 5.3.14	Providing R.C.C.M-200 with Nominal mix of (1:1.5:3) in Columns with approved quality of stone chips 20 mm to 6 mm, size graded and clean coarse sand of F.M. 2.5 to 3 including screening, shattering, mixing cement concrete in mixture and placing in position, vibrating, striking, curing (but excluding the cost of reinforcement, taxes and royalty all complete, as per building specification and direction of E.I)	Total	4.240	M <sup>3</sup>	7647.84	32426.8416
A10	JR 5.5.4	Providing TMT steel reinforcement 8mm dia rods to 12mm dia as per approved design and drawing excluding carriage of M.S. rods (Straight or in coils) to work site, cutting, bending end, handling with annealed wire with cost of wire removal of rust placing the rods in position all complete as per building specification and direction of E.I.	8mm dia Bars	0.280	M <sup>3</sup>	5343.91	14961.4948
			10mm	0.250	M <sup>3</sup>	5343.91	13358.4775
			12 mm	0.570	M <sup>3</sup>	5343.91	30457.3287

S. No. Date  
Signature : K. G. N. A.

Date : 09/09/2018

A11	JR 5.6.3	Providing designation 75B one brick flat soiling joints filled with local sand including cost watering taxes and royalty all complete as per building specification and direction of E.I.	Total	6.810	M2	225.81	1537.76
A12	JR 5.6.23	Providing and laying 6mm precast white glazed tiles in walls over 12mm cement mortar (1:3) and joint with grey cement slurry flush pointed with white cement including rubbing, polishing, and cost of curing taxes, and royalty all complete as per building specification and direction of E.I.	Total	260.604	Sqm	1025.83	26723.28183
A13	JR 5.7.1	Providing 12mm cement plaster (1:3) with clean coarse sand of FM 1.5 including screening, curing with oil leads and lifts of water-scaffolding taxes and royalty all complete as per building specification and direction of E.I.	Total	437.62	Sqm	146.42	64076.3204
A14	JR 5.7.3	Providing 12mm thick cement plaster(1:6) with clean coarse sand of F.M1.5 including screening, curing with oil leads and lifts of water-scaffolding taxes and royalty with all complete as per building specification and direction of E.I.	Total	1041.27	Sqm	125.34	130512.7818
A15	JR 5.7.6	Providing 6mm thick cement plaster(1:4) in ceiling with clean coarse sand of F.M1.5 including screening, curing with oil leads and lifts of water-scaffolding taxes and royalty with all complete as per building specification and direction of E.I.	Total	268.00	M2	133.78	35853.04
A16	JR 5.7.11	Providing 1.5 mm cement punning including curing, carriage of water without leads and lifts as per building specification and direction of E.I.	Total	143.414	Sqm	45.17	6478.01038
A17	JR 5.8.9	Extra for cleaning the old surface by scrapping the entire old white wash or colour wash including cost of scaffolding all complete as per direction of E.I.	Total	7150.341	Sqm	8.47	60563.38827
A18	JR 5.8.20	Providing two coats of plastic emulsion paint of approved shade and make over old surface including washing, cleaning and preparing the walls, scaffolding, washing of floor and taxes all complete as per building specification and direction of E.I.	Total	5132.060	Sqm	156.77	804553.0462

Shashank Kumar

S. A. V. S.

A19	JR 5.8.24	Providing two coats of snowcem of approved shade and make over a coat of cement primer on new surface including papering the plaster surface smooth with sand paper, scaffolding, curing and taxes all complete as per building specification and direction of E.I.	Total	308,600	M2	81.14	24039.804
A20	JR 5.8.31	Providing two coats of synthetic enamel paint of approved shade and make over old wooden surface including preparing the surface after cleaning, removing dirt, scales, smokes, grease and sand papering, including cost of scaffolding and taxes all complete as per building specification and direction of E.I.	Total	93,205	Sqm	89.67	8357.69235
A21	JR 5.8.40	Labour for scrapping old paint with paint remover and below lamp as required on wooden or steel surface including cost of all labour and materials and scaffolding all complete as per building specification and direction of E.I.	Total	283,574	Sqm	8.15	2311.1281
A22	JR 5.8.45	Providing two coats of synthetic enamel paint of approved shade and make over steel surface including cleaning the surface thoroughly, scaffolding and taxes all complete as per building specification and direction E.I.	Total	216,391	Sqm	53.22	11516.32902
A23	JR 5.10.4	Dismantling Patent stone flooring including stacking serviceable materials in countable stacks 16M lead and disposal of unserviceable materials with all leads, all complete as per direction of E.I.	Total	435,614	Sqm	27.40	11935.8726
A24	JR 5.10.7	Dismantling old plaster and pointing in cement or lime and raking out joints to 15 mm depth, watering and disposal of unserviceable materials with all leads all complete as per direction of E.I.	Total	1588.29	Sqm	14.45	22919.0247
A25	DSR 13.26	Providing and applying plaster of paris putty of 2mm thickness over plastered surface to prepare the surface even and smooth complete.	Total	5132.054	Sqm	118.70	609174.8
A26	DSR 13.50	Providing and applying white cement based putty of average thickness 1mm of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete,	Total	839.326	Sqm	87.35	73315.12
A27	DSR 13.46	Finishing walls with acrylic smooth exterior paint of required shade...					

Shashank V. Lohar 

		Total	\$39,326	Sqm	96.05	\$0.617.26
A.28	DSR 21.18	Providing and fixing 12 mm thick toughened glass door shutter of approved brand and manufacture,including providing and fixing top & bottom pivot & spring type fixing arrangement and making necessary holes etc. for fixing required door fittings,all complete as per direction of Engineer-in-charge.				
		Total	7,560	Sqm	460.85	34842.9
A.29	Carriage					
	Brick -8 km (1k=7p)	3,366	Per 1000	3153.99	10.6	
	Sand - 10km	42,909	Cum	1,306.19	56047.48932	
	Metal - 22km	24,392	Cum	1783.21	43335.45173	
A.30	NS	Black paint for blackboard				
		Total	83.650	Sqm	75.00	6272.25
A.31	NS	Fabricating , supplying, assembling and installing in position "2 track glazed sliding glazed aluminum windows" consisting of outer frames, shutter frames, Mullions transoms etc. (final medium duty ) assembled and fitted properly + single glazing made of 5mm thick float glass, saint gobain including anchoring frames its approved, fixing and other accessories, providing and fixing sub frame in aluminium where called for, all sliding gear, lock and other hardware as required and as approved and all incidental work complete as per drawings and specification. Aluminium members frames & slats to be colour anodized (20 microns) in a proper plant or power coated to approved shade.				
		Total	16,815	Sqm	2450.00	41196.75
A.32	Tata Bluestope cover for 1 m.Gate	Total	13,011	Sqm	500.00	6505.5
		ELECTRICAL WORK				
A.33	1.3	Point Wiring in PVC Conduit, with Modular type Switch: Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq/mm FR PVC insulated copper conductor single core cable in surface/recessed PVC conduit, with modular type switch, modular plate, suitable size of GI box etc as required.( Havells/Standard/L&T)				
	1.3.3	Gr-B	322	Each	795.00	256312.00
A.34	1.31	Supply and Fixing Light Point with Modular Type Accessories: Supply and Fixing GI box with modular plate and cover in front on surface or in recess including providing and fixing 3 pin, 5/6 amps modular socket outlet and 5/6amps modular type switch, connection, painting etc as required. (Havells/Crabtree/ Standard)	30		325.00	9840.00

Sohail Ullah Dr. 6/

A35	1.32	Supply and Fixing Light Plug Point with Modular Type Accessories: Supply and Fixing GI box with modular plate and cover in front on surface or in recess including providing and fixing 6 pin, 15/16 amps modular socket outlet and 15/16 amps modular type switch, connection, painting etc as required. (Havells/Crabtree/ Standard)	30	415.00	12450.00
A36	1.7	Circuit / Sub-main wiring in PVC Conduit: Wiring for circuit / sub-main wiring along with earth wire with the following sizes of PVC insulated, copper conductor, single core cable in surface/recessed PVC conduit as required.(Havells/ Standard)	15	Mtrs.	144.00
	1.7.1	2x1.5 Sqmm + 1x1.5 sqmm earth wire	15	Mtrs.	144.00
	1.7.2	2x2.5 Sqmm + 1x2.5 sqmm earth wire	10	Mtrs.	168.00
	1.7.4	2x6 Sqmm + 1x6 Sqmm earth wire	15	Mtrs.	265.00
A37	2.80	SF SF MCB DB: Supplying and fixing of 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, detachable gland plate, interconnections, phosphatized and powder painted including earthing etc. as required (Without MCB RCCB/ISOLATOR). (Havells/Standard/Crabtree)	2	Set	1565.00
	2.8.9	12 ways double door	2	Set	1565.00
A38	2.11	SF 'B' series SP MCB: Supplying and fixing 240 volts, 'B' series, miniature circuit breaker suitable for inductive loads of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.(Havells/Standard/Crabtree)	2	Set	1565.00
	2.11.1	6/32A Single Pole	24	Each	183.00
	2.12.7	50/63A DP MCB	2	Each	740.00
A39	1.33	SF Ceiling Rose: Supplying and fixing 2 pin 5 amp ceiling rose on the existing junction box/ wooden block including connection etc as required. (Havells/Standard/Crabtree)	25	Each	40.00
A40	1.34	SF Batzen Holder: Supplying and fixing batwing/bangle holder including connection etc. as required.	60	Each	47.00
A41	1.27	SF Modular Boxes, base & cover plate: Supplying and fixing following size / modules GI box along with modular base & cover plate for modular switches in recess etc as required. (Havells/Crabtree/ Standard)	1	Each	2820.00
	1.27.1	1 or 2 module (78 mm x 78 mm x 45 mm)	6	Each	480.00
A42	1.41	ITC fluorescent fitting directly on surface :- installation, testing and commissioning of Pre-wired, fluorescent fitting / compact fluorescent fitting of all types, complete with all accessories and tube etc, directly on ceiling / wall, including connection with 1.5 Sq-mm. FR PVC insulated, copper cord.	60	Each	171.00
					1026.00
					\$160.00
A43	1.44	ITC Ceiling Fan :- Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (1p to 30 cm) with 1.5 sq-mm. FR PVC insulated,copper conductor,single core cable etc, as required.	110	Each	93.00
					10230.00

Signature 16-10-2018  
Arif Q

A.44	1.25	S/F Modular type electronic fan regulator:	Supplying and fixing stepped type fan regulator on the existing modular plate switch box including connections but excluding modular plate etc as required.	110	Each	384.00	42240.00
A.45	1.48	HTC Exhaust Fan upto 450 mm sweep:	Installation of exhaust fan upto 450 mm sweep in the existing opening, including making the hole to cut the size of the above fan, making good the damage, including connection, testing, commissioning etc as required.	10	Each	454.00	4540.00
A.46	1.21	S/P PVC Conduit:	Supplying and fixing of following sizes of PVC conduit alongwith the accessories in surface / recess including cutting the wall and making good the same in case of recessed conduit as required for Tele, RJ45 Cat 6 data outlet for computer network.	10	Mtrs.	88.00	880.00
	1.21.2	25 mm		10	Mtrs.	110.00	1100.00
	1.21.3	32 mm		10	Mtrs.	110.00	1100.00
A.47	Market Rate	Endura DL 15 W-0000 K LED:	Supply erection and commissioning of Endura light luminaire with 15W LED lamp and all accessories as required. ( make Havells-LHEBGP61A2W012 OR EQUIVALENT)	2	Each	2,640.00	5280.00
A.48	Market Rate	Supply of Ceiling Fan:	Fitting of 48" (120@mm) Sweep ceiling fan . Technix L BR 5 star with electronic regulator including connection with 1.5 sq mm copper wire, down rod all accessories as required. Make :- Crompton / Havells / GEC.	8	Each	2216.50	17732.00
		PHED WORK					
A.49	3.1.7	Providing and fixing G.M. non return valve	Horizontal/vertical type of approved quality as per specification and direction of E.I.L.	2.00	Each	758.91	1517.82
		Horizontal - 32mm dia		2.00	Each	660.01	1320.02
		Vertical -32mm dia		2.00	Each	905.61	1811.22
		40 mm dia-VERTICAL		2.00	Each	443.54	887.08
		25 mm dia-VERTICAL		2.00	Each		
A.50	3.1.17	Cutting chhalsa or surince for laying G.I. / C.P.V.C pipe and restoring the same with R.C.C. (1:2:4) brick work in cement mortar (1:4) as per specification and direction of E.I.L.					
		Making holes in walls for laying G.I. / C.P.V.C pipe and restoring the same after pipe laying as per specification and direction of E.I.L.		2.00	Each	99.74	199.48
(b)		250 mm thick wall		4.00	Each	107.18	428.72
A.51	3.1.18	Supply	Supplying the following bathroom fittings all complete V.I.P.				
		Bib cock long thread V.I.P.		9	Each	818.40	7365.60
		Pillar cock (long neck) V.I.P.		6	Each	649.00	3894.00
		Angular Stop Cock (long Thread)		9	Each	649.00	5841.00

Signature Name N.P. AJ

		Supplying, fitting and fixing vitreous white glazed earthen ware I.W.C. of Parry Hindustan or any other I.S.S. approved make with 100mm H.C.I. 'P' trap 15 litres C.I. pull and let go flushing cistern of names or other I.S.S. equivalent make, complete with all fittings, C.I. or C.C. brackets 32mm alkathene/P.V.C. telescopic flush, pipe about 2M long with one brass coupling and clamps G.I. chain and pull including supplying and fixing a pair of vitreous white glazed earthenware footrest to be fixed in floor 15mm C.I. body brass spindle stop cock of weight not less than 50grams, 15mm P.V.C. connection pipe 450mm long and the exposed pipe and cistern with two coats of approved paint over a coat of red oxide primer etc. all complete as per specification and direction of E.I.		
A.53	3.2.1	(A) 580mm long (c) With 12.5 Liter Low Level P.V.C. cistern	5.00	Each 3874.05 19370.25
		Supplying, fitting and fixing vitreous white glazed earthen ware F.W.C. of Parry Hindustan or any other— all complete as per specification and direction of E.I.		
A.54	3.2.2	(A. (b)) With 'P' trap - 12.5 litr. Low level PVC cistern	4.00	Each 4010.37 16041.48
		Supplying, fitting and fixing flat back or angular, lipped front vitreous white glazed earthen ware urinal of 'Hindustan "Parry" or any other approved I.S.S. make with 5 liter's capacity C.I. automatic flushing cistern of reliance for any other I.S.S. approved make with all fittings with C.I. or R.S., brackets, standard size G.I. flush pipe with fitting clamps, 15mm, C.I. body brass spindle stop cock of approved quality weight not less than 400 grams, 15mm P.V.C./Alkathene pipe 450mm long with brass coupling at both ends and doing plumber joints including painting coat of red oxide cutting wall and floor making good the same etc. all complete as per specification and direction of E.I.		
		(a) Flat back or standing corner (600mmx 350mm)	9.00	Each 3261.37 29352.33
A.55	3.2.3	Earth work in excavation for laying of different types and sizes of R.C.C. spun pipes with disposal of excavated earth within initial lead and sizes of R.C.C. spun pipes with disposal of excavated earth within initial lead and lift as per specification and direction of E.I.		
		25x 0.450 x 0.600	6.75	M3 133.14 898.70
A.56	3.3.1	Lbours for laying, fitting and fixing NP2 R.C.C. spun pipe with collars in lines, level and grade and providing approved jointing materials and joints properly filled to make them leakproof including providing sight rails, bunning rod, night guard, Red light and barrier etc. all complete as per specification and direction of E.I.		
A.57	3.3.6	150mm dia R.C.C. spun pipe	25.00	M 119.38 2954.50

Signature given by Dr. D.

A58	Supplying materials and labours for constructing inspection chamber of designation class 75B bricks size 750 mm deep, 600 x 450mm internal dimension having 250mm wall thickness in cement mortar (1:6) including 12mm cement plaster (1:4) with punning on inside and cement plaster (1:6) with 600 3 475mm G.I. Cover with frame (weight not less than 36 kg) alongwith earth work in excavation and 80mm thick P.C.C. (1:3:6) in foundation and refilling all complete as per specification and direction of E.I.		1.00	Each	7013.43	7013.43
A59	Providing and placing on terrace (at all floor levels) polyethylene waterstorage tank ISI : 12701 marked, with cover and suitable lockingarrangement and making necessary holes for inlet, outlet and overflowpipes but without fittings and the base support for tank.		1000.00	L.t	7250.00	7250.00
A60	Supplying NP2 R.C.C. hume pipe with colour 25 work site as per direction of E.I. 150mm dia 150 mm Dia		25.00	M	351.32	351.32
A61	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 pair of 15 mm C.P. brass pillar taps		2.00	Each	2331.15	4662.30
A62	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.		15.00	M	231.30	3469.50
A63	Internal work - Exposed on wall  18.7.3 25 mm nominal outer dia Pipes 18.7.4 32 mm nominal outer dia Pipes 18.7.5 40 mm nominal outer dia Pipes		12.00	M	296.70	3560.40
	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, ie fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.		10.00	M	407.90	4079.00

		Concreting work, including cutting chases and making good the walls etc.				
18.8.1	15 mm nominal outer dia Pipes	4.00	M	246.20	984.80	
18.8.2	20 mm nominal outer dia Pipes	4.00	M	284.85	1139.00	
18.8.3	25 mm nominal outer dia Pipes	5.00	M	333.60	1668.00	
A64	DSR Providing and fixing PTMT grating of approved quality and colour.					
18.58.1	C.P. Gratings					
	Circular type - 100mm dia	2.00	Each	32.75	65.50	
A65	M.R. Providing and fixing of 110mm dia. P.V.C. pipe for outlet of water to outlet drain including all accessories i.e. lubricants, solvent cement, clamp, ring, sockets etc.(SUPREME SW.R.)					
	110 mm	25.00	Mtr.	345.000	8625.00	
A66	M.R. Providing and fitting PVC Pipe fittings with all accessories (supreme make)					
	i) 110 mm Door Tee (Supreme) P.V.C.	1.00	Each	241.00	241.00	
	ii) 110 mm Plain Tee (Supreme) P.V.C.	2.00	Each	192.00	384.00	
	iii) 110 mm Door Bend (Supreme) P.V.C.	2.00	Each	190.90	381.80	
	iv) 110 mm Plain Bend (Supreme) P.V.C.	2.00	Each	158.80	317.60	
	v) 110mm 45 degree offset (Supreme) PVC	1.00	Each	469.70	469.70	
	vi) 110 mm Cowel (Supreme) P.V.C.	2.00	Each	61.00	122.00	
	vii) 110 mm P Trap (Supreme) P.V.C.	2.00	Each	324.50	649.00	
	viii) 110mm Plain floor Trap	1.00	Each	160.00	160.00	
A67	N.S. BLUE SCOPE SHEET					
		84.50	Sq.m	500.00	42250.00	
A68	5.9.10 Labour for fitting and fixing G.C.I or C.A sheet roofing in proper.....					
		84.50	Sq.m	88.25	7457.13	
A69	DSR 12.1 Providing corrugated G.S> sheet roofing including vertical/curved surface fixed with polymer coated J or L hooks, bolts, and nuts 8 mm dia with bitumen and G.I> limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required					
12.1.3	0.63mm thick with zinc coating not less than 275gm <sup>c</sup>	84.50	Sq.m	743.45	6281.53	
				Total A	339674.00	
				B	339674.00	
				Cess 1%		
				Total A+B	3430709.00	

Shashank Kulkarni ✓