

**Name of Work : Construction of Banquet Hall in Academy Block at JSCA International Cricket stadium complex at Dhurwa, Ranchi.**

**BILL OF QUANTITIES**

Item No.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE (Rs.)	AMOUNT (Rs.)	REFERENCE IMAGE
<b>1</b>	<b>CIVIL WORKS</b>					
	<b>EARTH WORK</b>					
1.01	Excavation in all sorts of soil dense, wet or dry (such as yellow murrum /gravel or mixture of any kind, including highly weathered laterite or sand stone) in loose & slushy condition other than soft / hard rock to the required level for foundations. trenches, plinth beams,etc. for all depths underneath the existing Ground level with manual/mechanical excavator as per drawings & as directed by Engineer In Charge for footings, pits, trenches etc. to its true line level & dimension as mentioned in the drawings & to the satisfaction of the Engineer In Charge.	Cum	60.00			
1.02	Earth work in filling in foundation trenches or plinth with good earth in layers not exceeding 150 mm. including watering and ramming etc. layer by layer complete. (Payment to be made on the basis of measurement of finished quantity of work) with each obtained from excavation of foundation	Cum	60.00			
1.03	Supplying and filling in foundation and plinth with local sand (suitable for filling) under floors etc. including watering, ramming. Consolidating and dressing complete.	Cum	80.00			
	<b>DISMANTALLING</b>					
1.04	Dismantalling of existing paver block floor including stacking as desired location in stadium complex as directed by Engineer-in-charge.	Sqm	80.00			
1.05	Demolishing cement concrete manually/ by mechanical means including disposal of materail within 50 mtr lead as per direction of Engineer-in-charge	Cum	10.00			
1.06	Demolishing brick work of cement mortar manually / mechanically means including stacking of serviceable material and disposal of unservicable material within 50 mtrs lead as per direction of Engineer-in-charge	Cum	150.00			

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Item No.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE (Rs.)	AMOUNT (Rs.)	REFERENCE IMAGE
1.07	Demolishing R.C.C. work manually / by mechanical means including stacking of steel bars and disposal of unserviceable material within 15 mtr lead as per direction of engineer-in - charge	Cum	25.00			
1.08	Dismantling doors ,windows and clerestory windows steel or wood shutter of any size including chaukhats ,holdfasts etc.complete and stacking within JSCA stadium as directed.	Each	25			
1.09	Dismantalling tiles work in floors and walls laid in cement mortar including stacking material within 50 m lead and disposal of debris.					
I)	For thickness of tiles 10 mm to 25 mm	Sqm	300.00			
II)	For thickness of tiles above 25 mm and upto 40 mm	Sqm	100.00			
	<b>PLAIN &amp; REINFORCED CEMENT CONCRETE</b>					
1.10	Providing machine mixing and laying cement concrete (P.C.C) using 20 mm down stone aggregate as specified for blinding to bottom of foundation at all heights and depth including necessary compaction, curing, de-watering, cleaning and such other works that are required to make it complete, all as specified excluding form-work					
I)	Mix 1:4:8 (1 Cement : 4 Fine aggregate : 8 Coarse aggregate)	Cum	10.00			
II)	Mix 1:2:4 (1 Cement : 3 Fine aggregate :6 Coarse aggregate)	Cum	40.00			
1.11	Reinforced cement concrete Grade M-20 Mix with well graded stone chips (20mm grade) excluding shuttering and reinforcement with complete design of concrete mix as per ISI code and relevant special publication , submission of job mix formula after preliminary mix design and testing of concrete cubes as per direction of project Manager.	Cum	20.00			

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Item No.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE (Rs.)	AMOUNT (Rs.)	REFERENCE IMAGE
1.12	Steel reinforcement bars (Thermo-mechanically treated bars of grade Fe-500D or more) in all R.C.C. work placed in form work as per design and drawing including bending, binding, cutting, assembling and placing position complete. (The measurement shall be as per running length of reinforcement actually used in the work and compute as per standard sectional weight of reinforcement bars) Binding wire not to be accounted for while calculating the steel reinforcement.	Kg	1500.00			
1.13	Hire and labour charges for shuttering with centering and necessary staging up to 4 m. using approved stout props and thick hard wood planks of approved thickness with required bracing for concrete slabs, beams, columns, lintels curved or straight including fitting, fixing and striking out after completion of works.	Sq.m	50.00			
	<b>BRICK WORK</b>					
1.14	Brick work with common burnt clay F.P.S ( Non modular) bricks of class designation 7.5 in foundation and plinth in cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	50.00			
1.15	Brick work with common burnt clay F.P.S (Non Modular) bricks of class designation 7.5 in super structure above plinth level upto floor v level in cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	80.00			
1.16	Half brick work masonry with common burnt clay F.P.S (non modular ) bricks of class designation 7.5 above plinth level upto floor V level in cement mortar 1:4 ( 1 cement : 4 coarse sand)	Sqm	300.00			

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Item No.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE (Rs.)	AMOUNT (Rs.)	REFERENCE IMAGE
	<b>FLOORING &amp; FINISHING</b>					
1.17	Providing and laying vitrified floor tiles of size 600X600 with water absorption less than 0.08% to 3% and conforming to IS:15622 under group B1b of approved make (Kajaria) laid on 20 mm thick cement mortar (1:4) including grouting the joints with white cement and matching pigments etc. complete	Sqm	500.00			
1.18	Providing and fixing 1st. quality ceramic wall tiles of size 600X1200 conforming to IS:15622 in skirting, Dado etc. over 12 mm thick bed of cement mortar (1:3) and jointing with grey cement slurry including pointing in white cement mixed with pigment of matching shade complete.	Sqm	200.00			
1.19	Providing and laying 18mm thick (average) mirror finished superior granite stone flooring, machine cut in required size, laid over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) including jointed with white cement slurry mixed with matching pigment, curing etc. complete at all levels. (Sample of granite stone shall be got approved by Engineer-in-Charge).	Sqm	150.00			
1.20	Laying 40 mm thick IPS flooring in 1:2:4 ( 1 cement : 2 coarse sand :4 graded stone aggregate) finished with a floating coat of neat cement , including cement slurry	Sqm	150.00			
1.21	12 mm thick plaster in CM of mix 1:6 (1 cement : 6 fine sand)	Sqm	1200.00			
1.22	Providing and fixing MS section as per Direction of Engineer-in-charge to support wooden floor	Kg	250.00			
1.23	Providing and fixing 30 mm thick block board in floors	Sqm	8.00			
1.24	Providing and applying Plaster of Paris (POP) of Min. 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	Sqm	300.00			
1.25	40 mm thick RCC Precast slab neatly cement finished including fixing	Sqm	5.00			

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Item No.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE (Rs.)	AMOUNT (Rs.)	REFERENCE IMAGE
2	<b>INTERIOR WORKS</b>					
2.01	<b>Dismantling Work</b> : Dismantling <b>existing ACP false ceiling</b> in both the banquet halls including carting away the dismantled materials to directed location in JSCA stadium and making good the damages.	Sqm	520.00			
2.02	<b>Hall 2 : Providing and fixing SPC (stone polymer composite) flooring</b> from Welspun (Basic Rate = Rs.250/Sft. Appx.) over the existing floor.	Sqm	315.00			
2.03	<b>Hall 1 &amp; Toilet Lobby : Protective Covering for the existing granite floor using 3 to 4 mm thick bubble sheet.</b>	Sqm	390.00			
2.04	<b>Regular False Ceiling</b> - regular flat drop ceiling in gypsum. Ceiling to drop to different heights based on different designs. (To drop the ceiling lowest upto 9'-6" clear ht. from FFL - Check @ site the available ht.) using approved quality of frame and board	Sqm	470.00			Hall 1 : Coffered Ceiling 
2.05	<b>Hall 2 - Vaulted False Ceiling</b> -To provide gypsum <b>vaulted ceiling</b> in the 3 bays between existing beams. The vaulted ceiling to have 6" wide laminated band framing detail at regular intervals. The rest of the ceiling to be finished in paint including all bye works to complete the job in all respect. <b>(Measured flat in plan)</b>	Sqm	250.00			Hall 2 : Vaulted Ceiling 

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Item No.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE (Rs.)	AMOUNT (Rs.)	REFERENCE IMAGE
2.06	<b>Cove in false ceilings</b> - Providing 3" coves in the false ceiling - for lighting purpose including all bye works.	Metre	310.00			
2.07	<b>Door 1</b> - Doorway with factory made 40 mm thick laminated flush door with central portion cut-out (Rebated) leaving a border of 6" all around, fixing 6 mm thick clear float glass sandwiched between two layers of moulded and polished teak wood cross beadings (1"X3/4") of symmetrical design including fixing the shutter on DORMA make floor spring (Model BTS 75 for 120 Kg, One Godrej make dead lock at bottom, 4'-0" long decorative brass handles antique finish (one each on each shutter both sides) and providing 2" thick jamb panelling made of 12 mm ply finished with laminate all complete as per reference image and Direcion of Engineer-in-charge	Sqm	7.00			To provide Decorative Brass Handles of 4'-0" length. To also use floor spring from DORMA - Model BTS 75 for 120 Kg. 
2.08	<b>Doors 2, 3, 5, 6 &amp; 8</b> - Same as Item no. 2.07 but providing 6 mm thick mirror pasted on 19 mm thick marine ply finished with laminate on other side (in place of 6 mm thick glass).	Sqm	35.00			To provide Decorative Brass Handles of 4'-0" length. To also use floor spring from DORMA - Model BTS 75 for 120 Kg. 

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Item No.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE (Rs.)	AMOUNT (Rs.)	REFERENCE IMAGE
2.09	<b>Doors 4 &amp; 7</b> - Same as Item no. 2.07 in single shutter but providing 19 mm marine ply sandwiched with 6 mm thick mirror on both side with 2'-0" long brass handles.	Sqm	7.00			To provide Decorative Brass Handles of 2'-0" length To also use floor spring from DORMA - Model BTS 75 for 120 Kg. 
2.10	<b>Door 9 (Student Entrance Door)</b> - Doorway comprising of two panels, one having fixed 10 mm thick toughened glass fixed on 2" thick jamb panelling finished in laminate and other panel having 40 mm thick factory made single shutter with central portion cut-out (Rebated) having 6" wide laminated border all around, fixing 19 mm thick marine ply panel finished 6 mm thick mirror from inside and laminate from outside sandwiched with 1"X3/4" moulded and polished teak wood beades from both sides including floor spring of DORMA make and 2'-0" long brass handles all as per approved quality. Opening surface to be finished with 2' thick jamb panelling made of ply and laminate.	Sqm	4.50			To provide Decorative Brass Handles of 2'-0" length. To also use floor spring from DORMA - Model BTS 75 for 120 Kg. 

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Item No.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE (Rs.)	AMOUNT (Rs.)	REFERENCE IMAGE
2.11	<b>Banquet Toilet - Entrance Doors</b> : Finishing the existing doors by removing the old laminate, preparing the surface and fixing new laminate with hardwares as per the reference image including locking arrangement	Sqm	6.00			<p><b>Century Laminates-Neo Textile 973 TS (option 1)</b>  <b>Kotogem Silver 3955 (option 2)</b></p> 
2.12	<b>Banquet Toilet - Cubicle doors</b> : Finishing the existing doors by removing the old laminate, preparing the surface and fixing new laminate with hardwares as per the reference image.	Sqm	8.00			
2.13	<b>Staff Toilet Doors and door to the store.</b> - Supplying and fixing syntax or other equivalent approved quality factory frame made of solid PVC foam profile with homogenous fine structure and 30mm thick solid shutter both side prelaminated PVC door shutter of approved shade and design with hardware and accessories complete in all respect as per direction of Engineer in Charge.	Sqm	6.00			
2.14	<b>Ventilators for Banquet Toilets</b> - Providing and fixing powder coated anodised Aluminium framed ventilators with top hung shutter and provision for exhaust fan.	Sqm	3.50			
2.15	<b>Hall 2</b> - Supplying and fixing 6 mm thick mirror pasted on 19 mm thick ply panel and painting the rear side with two coats of synthetic enamel paint matching with exterior colour shade over a coat of primer.	Sqm	25.00			

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Item No.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE (Rs.)	AMOUNT (Rs.)	REFERENCE IMAGE
2.16	<b>Hall 1 : Wall Panelling on all available plain wall surfaces -</b> Contemporary style wall panelling with 12 mm thick MDF board, top surface finished with laminate, edges neatly finished with brown paint. The plastered surface to be aligned in true level and line to ensure final finished surface flawless.	Sqm	220.00			
2.17	<b>Hall 2 &amp; Toilet Lobby Wall Panelling -</b> Classic style wall panelling in 12 mm thick MDF board to have centre panel projecting above the wall surface and panel to be framed in decorative beading of size 1.5"X1.5"and 1"X1", painting finished in plastic emulsion paint (Measured flat)	Sqm	330.00			
2.18	<b>Cuddappa stone (Black stone) 20/25 mm thick Backing to all Wash Basin Counters on which the granite can be mounted.</b>	Sqm	4.00			
2.19	<b>Mirrors in curved profiles above the wash basin counter + full length mirrors.</b> To use 6 mm thick marine ply backing for the mirrors.	Sqm	8.00			
2.20	<b>Walls -</b> Painting with <b>Premium Plastic Emulsion</b> paint in 3 coats over 2 coats of primer and putty.	Sqm	585.00			

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Item No.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE (Rs.)	AMOUNT (Rs.)	REFERENCE IMAGE
2.21	<b>Textured Wall Painting of approved design and colour as per direction.</b>	Sqm	200.00			
2.22	<b>Ceiling</b> - Painting with <b>Satin Enamel paint</b> in 2 coats over primer and putty for the Gypsum Ceiling, exposed ceiling slabs and exposed beams.	Sqm	800.00			
2.23	<b>External Painting to outer wall of Hall 2 facing the Landscaped Area</b> - Painting in weather proof exterior emulsion - the wall in deep brick red colour.	Sqm	120.00			
2.24	<b>External Painting</b> - Painting in weather proof exterior emulsion - around areas where walls are opened out to create entrances + touch-up in few areas where other works have been undertaken.	Sqm	500.00			
2.25	<b>Hall 1 : Cement Board packing</b> : Fixing cement board in the gap between lintel height and beam bottom - above the proposed entrance door to the banquet hall from the pre-function area and above the entrance from outside into the pre-function area including frame work as required.	Sqm	12.00			

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Item No.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE (Rs.)	AMOUNT (Rs.)	REFERENCE IMAGE
	<b>AIR CONDITIONING:</b>					
2,26	<b>Hall 1</b> - Supply, Installation, testing & commissioning of Voltas make ceiling suspended air cooled split type 4 - way cassette unit complete with blower and motor, copper coils, condensing unit with scroll compressor charged of refrigerant R-410A . The indoor and outdoor units shall be connected with pair of soft copper refrigerant pipe with tubular insulation of required sizes, condensate drain piping, control cabling between indoor and outdoor units, stand for outdoor units etc as required.					
A1)	3.0 TR	Each	2			
A2)	4.0 TR	Each	3			
2.27	<b>Hall 2</b> - Supply, Installation, Testing and commissioning of Voltas make microprocessor based ceiling suspended/floor mounted air cooled ductable split air conditioning unit/air handling unit with removable and washable type pre filters, blower section with motor and drive, DX copper coil, aluminium fins of normal capacity (8.5 TR x 4 Nos.), condensing unit with scroll compressor charged of refrigerant R-22/R-407C/R-410A cooled air shall be supplied by GSS ducting covered with 9mm thick nitrile sheet for thermal insulation, 12mm thick fibre glass rigid board with aluminium perforatrd sheet and tissue paper for acoustic insulation, air distribution by aluminium powder coated diffusers/grills for both supply and return air. The indoor and outdoor unis shall be connected with pair of hard drawn copper refrigerant pipe along with 13mm thick nitrile tubular insulation of required sizes complete with condasate drain piping, control cabling between indoor and outdoor units as required as per specification including provision of incoming power (415V, 50Hz, 3 Phase, 4 Wire AC) with earthing at each panel through floor distribution panel and necessary drainage pipeline to the nearest disposal point.	Lot	1			

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Item No.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE (Rs.)	AMOUNT (Rs.)	REFERENCE IMAGE
	<b>LIGHTS &amp; FANS:</b>					
2.28	Supplying Light fitting (Chandellier) as shown in the reference Image made of black painted MS frame having 10 nos. 12 watt round LED bulbs in each fittings. Length : 2'-6" (Approx.), Width : 1'-3" (approx.) and Height : 1'-3" (Approx.)	Nos.	5			Hall 1 : Style of Light Fittings. Source : Loknaya Bhawan, Khan Market, Delhi 
2.29	Supplying Light fitting (Chandellier) as shown in the reference Image made of black painted MS frame having 4 nos. 12 watt candle shaped LED bulbs in each fittings. Dia. : 2'-0" (approx.) and Height : 2'-6"	Nos.	9			Porch Drop Light. Source : Loknaya Bhawan, Khan Market, Delhi 
2.30	Supplying Light fitting (Chandellier) as shown in the reference Image made of black painted MS frame having 4 nos. 12 watt candle shaped LED bulbs in each fittings. Dia. : 3'-0" (approx.) and Height : 1'-6"	Nos.	6			Hall 2 : Style of Light Fittings. Source : Loknaya Bhawan, Khan Market, Delhi 

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Item No.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE (Rs.)	AMOUNT (Rs.)	REFERENCE IMAGE
2.31	Supplying 13 watt. Philips recessed spot light from green series of Warm white colour	Nos.	20			 <p>Philips Product catalog - Philips Lighting</p> <p>Philips Lighting LiteCaster LED Downlight - General Purpose Downlighting ...</p> <p align="right">Philips</p>
2.32	Supplying LED Strips for Cove lights within the false ceiling Warm white colour, 28 watt per 5 m roll (SKY Cove LED)	RM	100			 <p>Philips LED Strip 2 mtr with Driver</p> <p align="right">Philips</p>
2.33	2 watt LED step light. Item code: 30974 white colour	Nos.	10			Philips
2.34	Ceiling Fans of 4'-0" dia.	Nos.	6			

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Item No.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE (Rs.)	AMOUNT (Rs.)	REFERENCE IMAGE
	<b>Banquet Toilets + Handwash in Lobby : Plumbing Work and Sanitary Fixtures</b>					
2.35	Providing and fixing <b>Wall mounted EWC's of Kohler make</b> with concealed cistern including all accessories like brackets, flush fittings and flush plates.	Nos.	4			Kohler - Replay Wall Hung Bowl Seat + Kohler Bevel Faceplate 
2.36	<b>Health faucets</b> fixed to a bib cock with metal hose and holder.	Nos.	4			 Kohler - Health Faucet
2.37	Providing and fixing <b>Wall mounted Urinals of Kohler make.</b>	Nos.	4			 Kohler - Patio Urinal

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Item No.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE (Rs.)	AMOUNT (Rs.)	REFERENCE IMAGE
2.38	Providing and fixing <b>Censor based Flushing system for Urinals - of Kohler make.</b>	Nos.	4			 <p>Kohler - Urinal sensor Shower Trim</p>
2..39	Providing and fixing <b>Fore Front Model Wash Basins of Kohler make.</b>	Nos.	5			 <p>Kohler - Fore Front Mode Wash Basin</p>
2.40	<b>Single lever tap</b> for the wash basins.	Nos.	5			 <p>Kohler - Taut Tall Basin Mixer</p>

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2.41	<b>Bottle Traps</b> for wash basins.	Nos.	5			
2.42	<b>Grid Drain waste coupling</b> for wash basins.	Nos.	5			
2.43	<b>Angle cocks</b> for the Wash basins and EWCs	Nos.	9			 <p>Kohler - Singulier Angle Valve</p>
2.44	<b>Concealed stop cocks</b> as the Master control valve at the inlet point of water into each toilet.	Nos.	3			
2.45	Providing and fixing <b>nahni traps</b> with SS cockroach trap gratings in the toilets.	Nos.	8			 <p>2 Pc.304 Stainless Steel</p>
2.46	<b>Plumbing Lines</b> : Providing and laying CPVC water supply pipes of different dias. (15 mm to 25 mm) with required fittings and PVC waste pipes (up to 100 mm) dia. with required fittings including making chase in walls, floors etc. and making good the damages and making connection to the existing sewerage line.	Lot	1			

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Item No.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE (Rs.)	AMOUNT (Rs.)	REFERENCE IMAGE
	<b>Staff Toilets + Handwash + Potwash area : Plumbing Work and Sanitary Fixtures</b>					
2.47	<b>Plumbing Lines</b> : Providing and laying CPVC water supply pipes of different dias. (15 mm to 25 mm) with required fittings and PVC waste pipes (up to 100 mm) dia. with required fittings including making chase in walls, floors etc. and making good the damages and making connection to the existing sewerage line.	Lot	1			
2.48	Providing and fixing <b>IWC's of Hindware OR Parryware make</b> + exposed wall mounted cistern for flushing - including all accessories like brackets, flush fitting, etc.	Nos.	2			
2.49	Providing and fixing <b>wall mounted Wash Basins of Hindware OR Parryware make.</b>	Nos.	2			
2.50	Providing and fixing <b>counter mounted taps for wash basins in staff handwash area.</b> (Jaquar - Florentine model)	Nos.	2			
2.51	<b>Bottle Traps</b> for wash basins.	Nos.	2			
2.52	<b>Grid Drain waste coupling</b> for wash basins.	Nos.	2			
2.53	<b>Angle cocks</b> for the Wash basins and for the flush system of IWC's. (Jaquar - Florentine model)	Nos.	4			
2.54	<b>Concealed stop cocks</b> as the Master control valve at the inlet point of water into each toilet. (Jaquar - Florentine model)	Nos.	2			
2.55	Providing and fixing <b>wall mounted taps for staff toilets near IWC + in Potwash areas.</b> (Jaquar - Florentine model)	Nos.	4			
2.56	Providing and fixing <b>nahni traps</b> with SS cockroach trap gratings in the toilets + handwash area + potwash area.	Nos.	5			
	<b>GRANITE WORKS:</b>					
	<b>Pre-polished jet black 20mm thk. Granite.</b> Basic Cost - Rs.120/- per sft. Providing and fixing the Granite with CM 1:4. Cost to include making necessary cut-outs for taps, washbasins, etc.					
2.57	<b>2'-0" deep granite counters</b> for wash basins in Banquet Toilets and Handwash in Toilet Lobby.	Sqm	5.00			
2.58	<b>6" deep granite ledge top behind WC's</b> in toilets.	Sqm	1.00			

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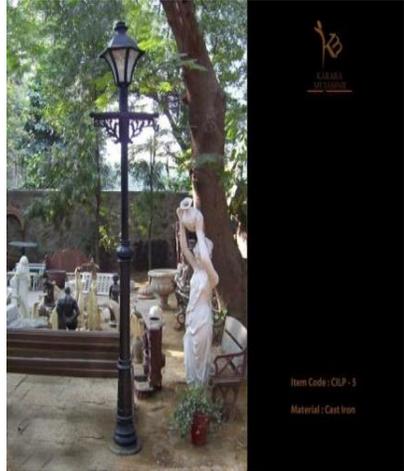
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Item No.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE (Rs.)	AMOUNT (Rs.)	REFERENCE IMAGE
2.59	<b>Urinal Partitions upto 4'-0" ht. made of 12 mm thick compact laminate (Green/Marino)</b>	Sqm	3.00			
2.60	<b>Single/Double edge nosing</b> along all exposed edges of granite wash basin counters, ledge tops behind WC's and urinal partitions.	Metre	22.00			
2.61	<b>Granite panelling to Jambs and Sill to openings</b>	Sqm	5.00			
<b>Accessories for Banquet Toilets :</b>						
2.62	<b>Supply Fans in the false ceiling</b> : Providing and fixing fresh air supply fans within the false ceiling in the common areas of the toilets.	Nos.	2			
2.63	<b>In-line fans in the false ceiling</b> : Providing and fixing <b>Panasonic</b> in-line fans within the false ceiling in the WC area, Shower area and common wash basin area of the toilets. To include the necessary 6" dia. CPVC pipes within the false ceiling.	Nos.	4			
2.64	Providing and fixing Hand dryers in the toilets ( <b>Euronics SS automatic hand dryer EH21/PHD501</b> )	Nos.	3			
2.65	Providing and fixing Soap dispensers in the toilets ( <b>Tork 0.5L capacity</b> )	Nos.	5			
2.66	Providing and fixing <b>tissue paper roll holders</b> near all the EWCs.	Nos.	4			

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2.67	Providing and fixing <b>hand tissue paper dispensers</b> near the wash basin counters.	Nos.	3			
	<b>Landscaping work in the Landscaped Court :</b>					
2.68	<b>Hard Landscaping</b> - Providing and laying 20 mm thick flame burn granite slab of different colour in random design and putting white gravels (size not more than 2") as filler in cement mortar 1:3 with top surface levelled.	Sqm	50.00			
2.69	<b>9" high brick edging along the pathway using cement mortar 1:3 and plastering with cement mortar 1:4</b>	Rm	200.00			

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3	<b>FABRICATION WORK</b>					
	<b>3 CANOPIES IN THE LANDSCAPED AREA :</b>					
3.01	<b>Circular MS and Cast Iron Posts for entrance canopies to Gym and Hall 1</b> - Supplying and fixing 16" x 16" square base plate and post with base dia. of 12" and tapering to 3" dia. at the top end & total ht. of 8'-0". To include Enamel painting of the posts. To include cost of installing into the floor - to use 'Hilti' brand anchor bolts. All complete as per drawing and direction of Engineer-in-charge. <b>(NOTE : The post to include hooks on either sides for hanging pots but without lamp post arrangements.)</b>	Nos.	4			<p>Karara Mujassame (Delhi) - Mr.Samyak Jain , NOTE : Without the top light fitting. (95405 56000)</p> 
3.02	<b>Supplying and fixing 4" x 4" MS square box section vertical posts for entrance canopy to Hall 2</b> - To be fixed as the core support members for the 4 GRC clad columns. (Ht. 11'-9 1/4" - matching the ht. of the GRC column cladding) To include enamel painting of the box section. To include cost of installing into the floor - using 'Hilti' brand anchor bolts. All complete as per drawing and direction of Engineer-in-charge.	Kg	325.00			

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**BILL OF QUANTITIES**

Item No.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE (Rs.)	AMOUNT (Rs.)	REFERENCE IMAGE
3.03	<b>Supplying and fixing 2" x 4" MS rectangular box section horizontal framing members and purlins required for all 3 canopies</b> - to support puff sheet roof. To include Enamel painting of the members. To include cost of installation at site. All complete as per drawing and direction of Engineer-in-	Kg	1000.00			
3.04	<b>Supplying and fixing GRC cladding around the 4" x 4" MS vertical posts for entrance canopy on Hall 2</b> -on either sides on entrances to the 2 banquet halls. (Standard Ht. 11'-9 1/4"). All complete as per drawing and direction of Engineer-in-charge.	Kg	350.00			<p align="center"><b>Local Manufacturer (M/s Vishal Sachdeva-Ranchi (9599994109))</b></p> 
3.05	<b>Supplying and fixing 30mm thk.Puff Sheet roofing</b> with sufficient overhang. To include proper slope for rain water drainage. To include all necessary hardware for fixing.	Sqm	140.00			
3.06	<b>Roof Gutter</b> - Supplying, fabricating and fixing 9"wide valley gutter , fabricating from plain Galvalume sheets with clamps all complete.	Metre	25.00			
3.07	<b>PVC Rain Water Drainage Pipes</b> - Supplying and fixing 100mm dia PVC rain water pipes including all bends and shoes as required at site. Fixing using S.S. clamps	Metre	11.00			
3.08	<b>Cladding with wood finished WPC (wood polymer composite), 20 mm thick to be used for facia cladding</b>	Sqm	12.00			
	<b>BACK AREA STORE AND STAFF TOILETS</b>					

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**BILL OF QUANTITIES**

<b>Item No.</b>	<b>DESCRIPTION OF ITEMS</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>RATE (Rs.)</b>	<b>AMOUNT (Rs.)</b>	<b>REFERENCE IMAGE</b>
3.09	<b>Supplying and fixing 4" x 4" MS square box section vertical posts - to support the GI roof.</b> The height of each post to depend upon the slope of the GI roof. To include enamel painting of the box section. To include cost of installing into the floor - using 'Hilti' brand anchor bolts.	Kg	200.00			
3.10	<b>Supplying and fixing 2"x 4" MS box section horizontal framing members and purlins - to GI sheet roof.</b> To include Enamel painting of the members. To include cost of installation at site.	Kg	700.00			
3.11	<b>Supplying and fixing Galvalume colour coated sheet BMT 0.50 mm - To the proposed staff toilet + hand wash + pot wash + store.</b> To provide sufficient roof overhang. To include proper slope for rain water drainage. To include all necessary hardware for fixing.	Sqm	126.00			
3.12	<b>Roof Gutter -</b> Supplying, fabricating and fixing 9"wide valley gutter , fabricating from 16mm Galvalume plain sheets with clamps made from 20x5 mm MS clamps, all complete.	Metre	15.00			
3.13	<b>PVC Rain Water Drainage Pipes -</b> Supplying and fixing 100mm dia PVC rain water pipes including all bends and shoes as required at site.	Metre	10.00			
<b>PROPOSED NEW STUDENT ENTRANCE</b>						
3.14	<b>Providing and fixing Ferrari or equivalent fixed Fabric Awning both side coated stripped with all necessary frame work and hardware.</b>	Sqm	10.00			

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**BILL OF QUANTITIES**

Item No.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE (Rs.)	AMOUNT (Rs.)	REFERENCE IMAGE
<b>4</b>	<b>ELECTRICAL WORKS</b>					
<b>4.01</b>	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 and earthing the point with 1.5 sq.mm. FR PVC insulated copper conductor single core cable etc as required. The wiring shall be terminated on ceiling rose (except switches, sockets, switch-boards & covers) Rates to include cost of all materials including copper conductor and labour described above.					<b>Approved make: Finolex/Havell/Polycab</b>
a)	Single Point MCB Control (All length)	Point	13			
b)	Primary Point (All length)	Point	80			
c)	Secondary Point (All length)	Point	120			
d)	Fan point (All length)	Point	12			
<b>4.02</b>	Drawing following sizes of FR PVC insulated copper conductor, single core cable in suitable polythene pipe as required including cost of cable.					
a)	3 x 2.5 sq. mm	Metre	1330.00			
b)	2x4.00 and 1.x1.50 sq mm Earthing	Metre	440.00			
<b>4.03</b>	Supply & Fixing of following sizes of medium class (MMS) PVC conduit along with accessories in surface / recess including cutting the wall and making good the same in case of recessed conduit as required.					
a)	25 mm	Metre	580.00			
<b>4.04</b>	Supply & Fixing metal box of following sizes (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including painting etc as required. (As junction box / pull box)					
a)	75 mm X 75 mm X 40 mm deep	Each	18			
b)	100 mm X 100 mm X 40 mm deep	Each	22			
c)	150 mm X 150 mm X 40 mm deep	Each	19			
d)	200 mm X 200 mm X 40 mm deep	Each	3			
e)	300 mm X 300 mm X 40 mm deep	Each	3			

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Item No.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE (Rs.)	AMOUNT (Rs.)	REFERENCE IMAGE
<b>4.05</b>	Supply & Fixing following modular switch / socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.					<b>Approved make: LEGRAND (Metal base)</b>
a)	5/6 amps switch	Each	80			
b)	15/16 amp switch	Each	41			
c)	2/3 pin (5 pin) 5/6 amp universal socket outlet	Each	24			
d)	6 pin 15/16 amp socket outlet	Each	58			
e)	AC Starter	Each	4			
<b>4.06</b>	Supply & Fixing following size / modules, GI box along with modular base & cover plate for modular switches in recess etc as required.					
a)	1 or 2 Module (75mm X 75mm)	Each	11			
b)	3 Module (100mm X 75mm)	Each	24			
c)	4 Module (100mm X 75mm)	Each	7			
d)	6 Module (200mm X 75mm)	Each	12			
e)	8 Module (125mm X 125mm)	Each	21			
f)	12 Module (125mm X 125mm)	Each	2			
<b>4.07</b>	6 way, Double door	Each	5			
<b>4.08</b>	12 Way SPN DB Double door.	Each	2			
<b>4.09</b>	Supply & Fixing 5 amps to 32 amps rating, 240/415 volts, "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.					<b>Approved make: LEGRAND/L&amp;T/GE/ABB</b>
a)	Single pole	Each	72			
b)	Four pole	Each	5			
<b>4.10</b>	Supply & Laying in Surface / False ceiling / Existing Perforated Tray of following sizes L.T. cable working voltage 1.1 KV grade, heavy duty XLPE insulated, armoured, screened, stranded, Al distribution power conductor cable (A2XFY), conforming to IS : 7098 ( Part - I ) / 1554 ( Part - I ) :					
a)	3.5C, 70 sqmm.	Metre	55			
b)	4C, 16 sqmm.	Metre	135			
c)	5x10 Sq mm Fixble Copper Cabile Ups Incoming.	Metre	20			

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Item No.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE (Rs.)	AMOUNT (Rs.)	REFERENCE IMAGE
4.11	Fxing compression type gland complete with brass gland, brass ring & rubber ring for dust & moisture-proof entry of XLPE/PVC armoured cables as below.					
a)	3.5C, 70 sqmm. with termination making connections, etc. as required.	Set	4			
b)	4C, 16 sqmm. with termination making connections, etc. as required.	Set	10			
4.12	<b>LIGHT FIXTURES &amp; FANS :</b>					
	Installation of following light fittings with necessary fastener, bolts, chain etc. and other hardware as required to complete the job in all respect.					
a)	13 Watt LED (Item no.-2.31)	No	20			
b)	Decorative lights (Item no.-2.28, 2.29 & 2.30)	No	20			
c)	Cove Light ( Warm White ) Philips Make (Item no.-2.32)	Rm	100			
d)	2 Watt LED white colour light	No	10			
e)	Ceiling Fan- Only provision for fan hook with wiring and switches	No	6			
4.13	<b>MAIN MV PANEL</b>	Each	1			
	<b>Supplying and installation as per following specification</b>					
	<b>INCOMER:</b>					
a)	1# 100A 4P MCCB 35KA					
b)	Multi Function Meter					
c)	Indicating lamps					
	<b>OUTGOINGS:</b>					
a)	2 # 63A 4P MCCB					
b)	2 # 40A 4P MCB					
c)	2 # 32A 4P MCB					
d)	2 # 32A DP MCB					
4.14	Telephone point	Each	1			
4.15	Data Point	Each	1			

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Item No.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE (Rs.)	AMOUNT (Rs.)	REFERENCE IMAGE
	<b>TOILET LOBBY + BANQUET TOILETS + BACK AREA :</b>					
<b>4.27</b>	<b>LIGHT FIXTURES &amp; FANS :</b>					
	Supply and installation of following of pre-wired light fittings/ light tracks, complete with all accessories such as side holders, ballast, wherever required, complete factory wired with copper conductor as required with lamp. Housing should be CRCA sheet 7 tank Processed & Powder coated. The fitting shall be fixed with chain ,screws etc. & recessed mounted in false ceiling.					
a)	10 watt green light	No	13			
b)	15 watt Hanging lights (15466/54/16)	No	7			Stream hanging light black finish
c)	Cove Light ( Warm White ) Philips Make	Rm	25.00			
d)	Foot light( 2 Watt LED white colour	No	9			Item No. 30974 of Philips
e)	Wall bracket (15461/54/16) including 9w lamps	No	2			Black
f)	Ceiling Fan of approved colour and brand.	No	4			
<b>4.28</b>	Telephone point	Each	1			
<b>4.29</b>	Data Point	Each	1			
<b>4.30</b>	28 w Tube light (Philips)	Each	17			
<b>4.31</b>	Exhaust Fan with louvres 9" dia.	Each	6			
<b>4.32</b>	Providing and fixing trap door of 19 mm thick ply board finished with laminate (Inside laminate 0.8 mm thick) including all necessary fixing arrangement	Sqm	25.00			