

Financial Bid – PART-II BoQs (Annexure-1)					
SMART CITY PROJECT- KAKINADA, ANDHRA PRADESH					
Name of the work: "Upgradation of High School Infrastructure - Package - II "					
BILL OF QUANTITIES					
Sl. No	Description of Item	Unit	Rate in Rs	Quantity	Amount in Rs
100-Civil work					
100-1	Earth work excavation for foundations (Manual Means) of building foundations, footings, walls, sump, compound wall in ordinary soils and depositing on bank with an initial lead of 10m and depth up to 3m including all operational, incidental, labour charges such as shoring, sheeting, planking, strutting etc., as per GFC drawings issued by the Employer and overheads & contractors profit complete for finished item of work excluding dewatering charges etc., as per SS 20 B(APSS 308)	cu.m		239.33	
100-2	Filling sand under foundation concrete including cost and conveyance of sand from approved source and labour charges for sectioning, ramming, watering and compacting etc., complete for finished item of work.	Cum		748.58	
100-3	Supply, Laying, Filling, levelling and consolidation of Gravel blended with Gravel 70% and Sand 30% brought from approved quarry including cost and conveyance of gravel and sand and all labour charges for sectioning, ramming, watering etc. complete including Seigniorage charges, other taxes on all materials complete for finished item of work as per GFC drawings issued by the Employer.	Cum		3616.00	
100-4	Plain Cement Concrete (1:4:8) (cement: fine aggregate: Coarse aggregate) for foundations and under flooring bed using coarse aggregate 40mm size hard, machine crushed granite from approved quarry including cost and conveyance of all materials like cement, sand, coarse aggregate, water etc. as per GFC drawings issued by the Employer to site, including sales & other taxes on all materials and including all charges for machine mixing, laying concrete in foundations and under flooring bed of 0.1m layer ramming finishing top surface to the required level curing etc., and overheads & contractors profit complete for finished item of work. (APSS No. 402)	cu.m		130.94	
100-5	Supply and fixing casting situ C.C. (Pre casted) not less than M30 strength, C.C. Kerbs of size 600 X 400 X 110 mm thick with bottom thickness of 110 mm up to height of 350 mm and top width of 60 mm thick chamfering at starts at 350 mm height to 400 mm as per GFC drawings issued by the Employer can be laid existing CC Bed with kerb laying machine jointing with C.M(1:3) including cost and conveyance of all material & labour charges including transportation complete for finished item of work	Rmt		829.17	
100-6	Supply and placing of M-25 grade Design Mix Concrete corresponding to IS 456 using Mobile concrete mixture 20mm size graded machine crushed hard granite metal (coarse aggregate) from approved quarry including Adjustable Jack screw Props and Acro span HIRE CHARGES FOR CENTERING & SCAFFOLDING cost and conveyance of all materials like cement, fine aggregate (sand) coarse aggregate, water etc., to site, and excluding seigniorage charges, sales & other taxes on all materials including all operational, incidental and labour charges such as machine mixing, laying concrete, curing etc., complete including Adjustable Jack screw Props and Acro span HIRE CHARGES FOR CENTERING & SCAFFOLDING but excluding cost of steel and its fabrication charges for finished item of work (APSS No. 402)				
	For Footings, columns & Plinth beam	cum		150.41	
100-7	Providing High Yield Strength Deformed (HYSD) bars (Fe 415 grade as per IS 1786-1979) of different diameters for RCC works, including labour charges for straightening, cutting, bending to required sizes and shapes, placing in position with cover blocks of approved materials and size and tying and lap-splicing with binding wire of 18 SWG, forming grills for reinforcement work as per approved designs and drawings, including cost and conveyance of steel bars, including all wastages such as overlaps, couplings, chairs, spacer bars including cost and conveyance of binding wire, cover blocks and all incidental, operational, labour charges such as cutting, bending, placing in position, tying including sales and other taxes on all materials etc. complete for finished item of work in all floors (APSS No:126)	kgs		16404.32	

BILL OF QUANTITIES					
SI. No	Description of Item	Unit	Rate in Rs	Quantity	Amount in Rs
100-8	Supply and construction of Brick masonry 230 mm thick for walls in super structure, foundation with cement mortar (1:6) prop (Cement:sand) using Second class Bricks 23 x 11 x 7 cm from approved source having minimum crushing strength of not less than 3.5 N/sq.mm. including cost and conveyance of all materials like cement, sand, bricks, water etc., to site, cost of all incidental and operational, labour charges like mixing cement mortar, scaffolding charges, constructing masonry, lift charges, curing etc., complete for finished item of work as per APSS 504.	Cum		149.22	
100-9	Plastering with CM (1:4), 15 mm thick including cost and conveyance of materials and all labour charges etc. complete	Sqm		1811.07	
100-10	Plastering with CM (1:4), 12 mm thick including cost and conveyance of materials and all labour charges etc. complete	Sqm		675.08	
100-11	Supplying and fixing of false ceiling using plaster of paris boards 12mm thick with standard GI channel angles, sections, perimetre channels including cost and conveyance of all material and labour charges etc. complete..(BMT-M53-736 no)	Sqm		50.00	
100-12	Providing and applying synthetic plaster putty or equalent putty such as BIRLA WALL CARE PUTTY or texture paint or equalent such as NCL/ Sai coat texture of average 2 to 3 mm thickness over plastered surface to prepare the surface even and smooth after thoroughly brushing the surface to remove all dirt and remains of loose powdered materials, applying emery paper, and the surface, clean & wipe off loose dust, applying knifing paste filler by putty knife/muslin pad, air dry for 2 - 3 hrs for the surface preparation including cost and conveyance of all materials to work site and all operational, incidental, labour charges etc., complete for finished item of work.	Sqm		9694.68	
100-13	Painting to new walls with 2 coats of plastic emulsion paint of approved brand and shade over a base coat of approved cement primer grade I making 3 coats in all to give an even shade after thoroughly brushing the surface to remove all dirt and remains of loose powdered materials, including cost and conveyance of all materials to work site and all operational, incidental, labour charges etc. complete for finished item of work as per SS 912 for external walls for:-External Colouring - Plastic emulsion paint - 3 Coats	Sqm		17289.28	
100-14	Providing water proofing treatment on roof slabs and junction of slabs with cement mortar 1:3, by adding water proofing admixture M/s FOSROC,..etc or any epulient brand approved.... conplast X-421 IC and NITOBOND SBR at a dosage of 200 ml each/ 50Kg of cement, 12 mm thick over a layer of 38mm thick cement concrete 1:2:4 nominal(using 320 kg of cement per m3 of finished concrete) using 6mm (passing through 10mm sieve and retained on 2.36mm sieve) granite metal of approved quality as coarse aggregate and river sand as fine aggregate including mixing, depositing in position, tamping, finishing, curing etc., including supplying, embedding chicken mesh of 18 guage as reinforcement in concrete. All labour and materials including the required surface preparation by removing loose materials and cleaning etc over the roof slabs before laying the cement concrete.	Sqm		440.35	
100-15	Plastering to ceiling with CM 1:3 (1 cement:3 sand) of thickness not exceeding 6mm using 25.5 kg of cement and 0.05 m3 of sand per 10 m3 smooth and even finishing, cleaning the surface, hacking and roughening the concrete surface, curing etc., complete. All labour charges	Sqm		1436.77	
100-16	Supply and fixing of Vitrified Tiles flooring 600x600mm of approved colour and make as directed by the Engineer and as per the GFC drawing given by the Employer in 15mm thickness cement mortar (1:5) including neat cement slurry of honey like consistency spread @ 3.3 kgs per sqm & jointed with neat cement to full depth mixed with pigment of matching shade including cost of all materials like cement, sand water and tiles etc., complete, including Seigniorage charges, complete for finished item of work.	Sqm		3071.73	

BILL OF QUANTITIES					
Sl. No	Description of Item	Unit	Rate in Rs	Quantity	Amount in Rs
100-17	Supply & fixing of 16 to 18mm thick high polished granite stone slabs other than black and regular colours (i.e. of shades like paradiso / bala flower / copper silk / laka red / lavender blue) with borders and design as per the pattern approved by the Engineer-in-Charge of length not less than 2.43 mts set over base coat of cement mortar (1:8) , 20mm thick using screened sand including neat grey cement slurry of honey like consistency spread @ 3.3 Kg per sqm and jointed neatly with white cement paste mixed with pigment of matching shade to full depth including cost and conveyance of all materials like cement , sand , water , granite slabs etc., to work site and all operational, incidental labour & lift charges, polishing charges and all other taxes on all materials, cost of base coat and overheads & contractors profit complete for finished item of work (S.S.701 & special)	Sqm		126.25	
100-18	Supplying of hot applied thermoplastic road marking compound, 2.5mm thick including reflectorising glass beads @ 250gms with Reflectorising Glass Beads on Bituminous Surface at 250gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass bead as per IRC:35, the material should be of BERGER Company / BERGER Equivalent and must comply with the following : A) White index for the product should be in the range of 60-70 when measured against standard reference. The applied panel 7/8 number must be submitted for checking up the white index in the department lab. In case the department approves the white index of any vendor, the department engineer may carryout random checking of the applied products at site against the approved panel. In case of any major deviation, beyond acceptance limit, department reserve the right to cancel or reject the total supplied consignment of the said material and will compel the vendor has to replace the full consignment by the desired material as per approved panel at his own cost and additional demurrages may be claimed due to loss of man days (as per the rules of the department). B) Luminance factor of the material should be in the range of 80-85% at 45 degree	Sqm		50.00	
100-19	Supply and fixing of Glazed Ceramic Tiles Dadoing of approved colour and size as directed by the Engineer and as per the GFC drawing given by the Employer in 15mm thickness cement mortar (1:4) including neat cement slurry of honey like consistency spread @ 3.3 kgs per sqm & jointed with neat cement to full depth mixed with pigment of matching shade including cost of all materials like cement, sand water and tiles etc., complete, including Seigniorage charges, complete for finished item of work.	Sqm		586.39	
100-20	Supply and fixing of Non-skid Ceramic Tiles flooring of approved colour and size as directed by the Engineer and as per the GFC drawing given by the Employer in 15mm thickness cement mortar (1:5) including neat cement slurry of honey like consistency spread @ 3.3 kgs per sqm & jointed with neat cement to full depth mixed with pigment of matching shade including cost of all materials like cement, sand water and tiles etc., complete, including Seigniorage charges, complete for finished item of work.	Sqm		279.79	
100-21	Supply, delivery and fixing precast C.C.Paver concrete blocks for paving of M-35 grade and thickness not less than 60 mm for Nontraffic areas conforming to IS 15658:2006 in all shapes and designs as per the manufacturer's specification including Seigniorage charges, sales & other taxes on all materials complete for finished item of work as per GFC drawings issued by the Employer.	Sqm		528.65	
100-22	Providing and fixing 35mm thick BRAND FACTORY MADE MOULDED DOOR SHUTTER consisting of sold core single leaf flush door of 30mm thickness, lipped with 15mm (5mmX3) thick X 30mm width on one stiles and top rails and 10mm (5mmX2) thick X 30mm width on the other stiles and bottom rails. The inner panel laminated with 2mm thick termite proof, water proof and fire resistant moulded Pac sheet with 2,4,6 raised panel design in different panel and / or prelam colours on one side after routing the moulded design on flush door and 2mm prelam Pac sheet on other side using rubber adhesive on flush door and solvent cement adhesive on Pac lipping etc. complete as per direction of Engineer-in-Charge, manufacture specification and drawing	Sqm		260.20	

BILL OF QUANTITIES					
Sl. No	Description of Item	Unit	Rate in Rs	Quantity	Amount in Rs
100-23	Supplying and fixing of Unplasticised Poly Vinyl Chloride (UPVC) sliding windows doors three track - only two glass shutters sliding - 95 -Series duly manufactured using UPVC reinforced profiles of 95.50 mm x 60 mm x 2.25 mm for outer frames, 66 mm x 42 mm x 2.25 mm for sliding door shutter frames capable of mounting single glazing system, structurally reinforced with hot dip galvanized up to 50 microns of minimum thickness of 1.2 mm prefabricated & welded through fusion welding the window sash shall be fitted with 5 mm thick clear float glass of reputed make duly fixed with EPDM weathering seal resistant accessories like clipping locking system made of aluminium 1 No., per set of sashes and the system is to be installed at the site using anchor fasteners, silicon rubber sealant, easy glazing/ deglazing at site etc., including cost and conveyance of all materials, accessories, labour charges for transportation, erection at site with templates for casement sizing complete for finished item of work as per the GFC drawing given by the Employer	Sqm		288.40	
100-24	Supply & Fixing of Aluminium Tower Bolt-10 mm Bolt (IS:204) 250 mm Long For Flush Doors	Each		93.00	
100-25	Supply & Fixing of Aluminium Door Handles (IS:208) 125 mm Long for flush doors	Each		160.00	
100-26	Supply & Fixing of Aluminium Aldrop (IS:2681) 300 mm long for flush doors	Each		86.00	
100-27	Supply & Fixing Aluminium Butt hinges (IS:205)- 100 mm Long for flush doors	Each		227.00	
100-28	Supply delivery and fixing in position of M S Iron grills of any design approved by the departmental authorities using required sizes of M S materials including all cost, conveyance of material and all labour charges for cutting, bending to required shape, welding including cost of welding rods, grinding etc. complete with all taxes etc. complete finished item of work.	kgs		3640.00	
100-29	Painting with Synthetic Enamel paints - Two Coats - For New Iron Work	sqm		7011.80	
100-30	Providing and fixing factory made polyvinyl chloride (PVC) Door Frame of the size 50 x 47mm with a wall thickness of 5mm, made out of extruded 10 mm rigid PVC foam sheet, mitre cut at two corners and joined with 2nos. of 150mm long brackets of 15x15mm M.S. square tube. The two vertical door profiles are to be reinforced with 19x19mm M.S. Square tube of 19 gauge. The door frame shall be fixed to the wall using 65/100mm long M.S. Screws through the frame by using PVC fasteners. A minimum of 4nos. of screws to be provided for each vertical member & minimum 2nos. for horizontal member etc. complete as per manufacturers specification and direction of Engineer-in-Charge for finished item of work	Rmt		422.90	
100-31	Providing and fixing 30mm thick Solid panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19mm x 19mm for stiles, & 15mm x 15mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture. M.S. frame shall be covered with 5mm thick heat moulded PVC 'C' channel of size 30 x 50mm forming stiles, and 5mm thick, 75mm wide PVC sheets for top rail, lock rail & bottom rail on either side, and 10mm (5mm x 2) thick, 20mm wide cross PVC sheet as gap insert for top rail & bottom rail. Panelling of 5mm thick PVC sheet to be fitted in the M.S. frame welded / sealed to the stiles & rails with 30mm wide x 5mm thick PVC sheet beading on either side, and joined together with solvent cement adhesive etc. An additional 5mm thick PVC strip of 20mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive. Complete as per direction of Engineer-in-charge, manufacturer's specification & drawing for finished item of work .	Sqm.		112.73	
100-32	Supply placing of Fibre make twin dust bins of each dia 500mm and depth of 900mm as per the clients drawing etc., complete.	Each		65.00	
100-33	Providing and placing Sign boards made with S.S.Sheets including cost and conveyance of S.S.Sheets and labour charges for all operations such as cutting dthe S.S Sheet properly and stockering the matter as specified by the departmental officers etc., complete for finished item of work. For Main Entrance	Each		5.00	
100-34	Providing and placing Sign boards made with S.S.Sheets including cost and conveyance of S.S.Sheets and labour charges for all operations such as cutting dthe S.S Sheet properly and stockering the matter as specified by the departmental officers etc., complete for finished item of work. For Class rooms	Each		395.00	

BILL OF QUANTITIES					
Sl. No	Description of Item	Unit	Rate in Rs	Quantity	Amount in Rs
100-35	Supplying fabrication with medium quality 75mm dia MS circular hollow section for column and etc. including cost and convenience of all materials to site with all taxes and duties and labours charges for cutting, placing, welding and erection etc. complete for finished item of work	kgs		5746.91	
100-36	Supply delivery and fixing in position of M S Iron grill work for gates of any design (Sliding / Revolving / Swinging etc) approved by the departmental authorities using required sizes of M S materials including all cost, conveyance of material and all labour charges for cutting, bending to required shape, welding including cost of welding rods, grinding etc. complete with all taxes etc. complete finished item of work as per GFC drawings issued by the Employer	Kgs		324.00	
100-37	Supply and fabrication of M.S. Cattle trap using 15 Nos of 32mm MS Steel rods welded as equal spacing over 6 Nos of 75 x 40 x 5 mm MS channel and fixing in position on the already laid concrete walls, including all labour charges for welding, transporting and fixing in position, cost of welding rods etc., complete as directed by the Departmental Officers for finished item of work.	Each		5.00	
100-38	Fixing of M.S anchor bolt of size 16mm dia, 750mm long including cost ,threading, cutting and bending with bolt. The rate includes labour charges for alignment fixing the template and finishing of item of work and conveyance of all materials to site with all taxes and duties Fixing need to be approved by the engineer -in -charge prior pour of concrete.	Kgs		394.50	
100-39	Supply. Fabrication of M.S Base plate of 12mm thick shall conform to physical specifications of IS:2062 or Equivalent having a minimum yield strength of 350 Mpa including cost of cutting, drilling with all labour charges.	kgs		703.67	
100-40	Supply, fixing & Fabrication of twisted 2.5mm(12 Guage) galvanized steel barbed wire with 4 points of galvanized barbs conforming to B-1 IS:278 Including cost of all labour charges, cutting, welding, supplying of GI staples, clips, pins, straining bolts, tensioning the barbed wire and bending etc....with zinc coating of 275 GSM.	kgs		1458.75	
100-41	Supply, fabrication, erection, fixing of structural steel rolled sections for chain link fencing at the top of compound wall conforming to IS:2062 with fasteners. Angle post with slots for drawing the barbed wire which shall be embedded in brick masonry. Rate includes making of pocket surface of size 100x100x150 mm . applying two coats of syntetic enamel paint over two coats of zink yellow primer for the post before embedding in concrete as directed by the engineer-in-charge	kgs		1940.63	
100-42	Filling of pocket of size 100x100x150 with grouting with M15 Concrete in the Brick pillars including Cutting dismantling of bricks, painting to angle sections and all labour charges	each		614.00	
100-43	Supply , fabrication and Erection of 0.5mm thick prepainted galvalume Roof sheeting of approved profile and colour, high tensile steel profiled sheet having min yield strength of 550 Mpa conforming codes. The rates includes cost of sheets, cutting, bending, required fittings etc with necessary labour and machinery charges for loading, unloading, erection including accessires such as self taping/drilling screws, adhesive tapes, rain water down spouts etc complete as shown in the drawings and directed by Engineer in Charge. only roof area will be measured for payment.	Sqm		531.03	
100-44	Supply and installation of 2 x "Jora JK 270" rotating composter or similar approved. Engineer-in-Charge to approve process.All works to match specifications, any changes are to have the written approval of the Engineer-in-Charge.	Each		5.00	
100-45	Removal of existing Door/window frame & Shutter without any damage and stacking at nominated place as directed by the Engineer In Charge	Each		265	
100-46	Clearing light Jungle including uprooting the jungle as directed by the Engineer-in charge.	Sqm		7740.70	
100-47	Dismantling/Removal& Shifting of existing asbestos roof sheet and replaced with G.I Sheet. Excluding cost of G.I Sheet as directed by the engineer -in-charge.	Sqm		210.50	
100-48	Dismantling of existing damaged brick masonry and throwing away the dismantled Stuff to a 50mts Radius etc... completed as directed by the Engineer- In-charge.	Cum		170.00	
100-49	Dismantling of existing structures R.C.C items and staking the materials use full for reuse and throwing away the dismantled Stuff to a 50mts Radius etc... completed as directed by the Engineer- In-charge.	Cum		30.00	
200-LANDSCAPE					

BILL OF QUANTITIES					
Sl. No	Description of Item	Unit	Rate in Rs	Quantity	Amount in Rs
200-1	Digging of 60x60x60 cm pit, filling with soil mixture of red soil and farmyard manure at 4:1 ratio including internal transport, application of fertilizers and chemicals (@ 20 gms/pit/sqmt), internal transportation of plants and planting the plants (excluding cost of plant material, fertilizers and chemicals (@ 20 gms/pit/sqmt))	Each		468.00	
200-2	Digging of 30x30x30 cm pit, filling with soil mixture of red soil and farmyard manure at 4:1 ratio including internal transport, application of fertilizers and chemicals (@ 20 gms/pit/sqmt), internal transportation of plants and planting the plants (excluding cost of plant material, fertilizers and chemicals (@ 20 gms/pit/sqmt))	Each		202.00	
200-3	Supply, Delivery and planting following Trees/Palms including cost of transportation and the Contractor has to plant and maintain the plant for 3months and handover to KMC/KSCCL in survival condition etc., completed as per GFC drawings issued & directed by the engineer-in-charge.				
	ixora singaporensis (13x13)	Each		62.00	
	Millingtonia hortensis(21x21)	Each		186.00	
	Lagerstroemia Indica (21x21)	Each		202.00	
	DURANTA GOLDIANA (13X13)	Each		20.00	
	IXORA PLANT (21X21)	Each		48.00	
	MIMUSOPS ELENGI (21X21)	Each		32.00	
	Chlorophytum	Each		72.00	
	Royal palm	Each		40.00	
Song of india	Each		50.00		
300-WATERSUPPLY & DRAINAGE SYSTEM					
300-1	Supply, installing and commissioning approved make Hindustan / Parry ware with white European Water Closet of Approved Model with P or S trap 1st quality conforming to IS:2556-Part-2-1973 with CI short Connector & thimble pipe, PVC Low Level Cistern fixed on wall above EWC with CP Flush Bend and all internal parts of cistern viz. seat cover of approved make & colour with rubber buffer and cap 15 mm angle stop cock, 450 mm long PVC inter connection pipe, wall flanges all of approved make etc. complete for finished item of work in all respects as directed by the Engineer-in-Charge. and as per GFC drawings issued by the Employer	Nos		38.00	
300-2	Supplying & Fixing white glazed flat back half stall urinals 1st quality conforming to IS:2556-1995 with standard C.P. Spreader of overall size 95 x 95 x 57 mm conforming to IS:2556-Part6, Sec-6-1974 fixed with screws complete Indian make (HSW/Parry/Neycer) : 590 x 375 x 390 mm all as per GFC drawings issued by the Employer	Nos		22.00	
300-3	Supplying and fixing NP bib taps of size 12.70mm dia of Indian make Seiko or equivalent including cost and conveyance of all materials, labour charges etc., complete for finished item of work in all floors. 300grm	Each		83.00	
300-4	Supply and fixing of CP Jallies of approval make on wall including cost& convince charges all materials act completed for finished of item	Each		95.00	
300-5	Supplying and fixing of 110mm SWR/PVC pipes (as per ISI standards) 4 Kg/sqm Prince/Sudhakar or any ISI brand and fixing all special such as plain bends, off sets, door bends, single junctions, double junctions as per site requirement, fixing with PVC clamps if necessary with required number of Bombay nails including cost and conveyance of all materials to site, labour charges etc., complete for finished item of work at all floor levels (APSS No.1302, 1319 & 1326)	Rmt		958.00	
300-6	Supplying and fixing 28 mm PPR Ball valve as per ISI Class - I , Indian make heavy type including cost and conveyance of all materials , labour charges etc. complete for finished item of work.	no's		61.00	
300-7	Supplying & fixing Ashirvad/Astral flow guard for equivalent 16mm CPVC Pipes with fittings in ground or on wall including cost of tees, elbows, bends, reducers, couplings, running joints, union flanges, unions etc. with necessary excavation in all types of soils except rock requiring blasting, refilling, chiselling masonry walls and making good the walls & floors to the original surface and fixing MS clamps on TW blocks on walls including cost and conveyance of all materials and labour charges complete for finished item of work. (16 mm dia)	Rmt		492.00	

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300-8	Supplying & fixing Ashirvad/Astral flow guard for equivalent CPVC Pipes with fittings in ground or on wall including cost of tees, elbows, bends, reducers, couplings, running joints, union flanges, unions etc. with necessary excavation in all types of soils except rock requiring blasting, refilling, chiselling masonry walls and making good the walls & floors to the original surface and fixing MS clamps on TW blocks on walls including cost and conveyance of all materials and labour charges complete for finished item of work. (28 mm dia)	Rmt		890.00	
300-9	Supply of polythylin storage tank double layer conforming to IS:12701-1996 with lid	Its		5000.00	
400-Electrification					
400-1	Supply and fixing of 25 mm dia 1.5 mm thick PVC pipe (ISI Mark) concealed in wall with all required accessories including masonry work and labour charges etc..complete.	Rmt		1860.00	
400-2	Wiring with 2 runs of 14/03 mm(1.0 sq.mm) fire retardent (F.R) PVC insulated flexible copper cable (ISI Mark) is existing pipe with 6 modular switch ceiling rose and 6 modular covering t switch control box including all labour charges etc..	Each		530.00	
400-3	Supply and run of 1 of 14 /0.3mm (1.0 Sq.mm) FR P.V.C. insulated flexible copper cable in existing pipe for earth continuity including Cost and Conveyance of all the materials and all labour charges etc., complete.	Rmt		950.00	
400-4	Supply and run of 2 of 36x0.3 MM(2.5 Sq.mm) FR PVC insulated flexible copper cable in Existing pipe for mains including all labour charges etc..complete	Rmt		1200.00	
400-5	Supply and fixing of Computer boards with 3 pin 6AMPS modular socket 4NOS with 6 A modular switch controls 4 nos and modular sheet and G.I concced box including all labour charges etc.Complete	Each		96.00	
400-6	Supply and fixing of 6 A 3 pin wallplug modular socket with 6 A modular switch control on a common switch board with earth continuity including wire leads, earth connection along with all labour charges etc.Complete	Each		186.00	
400-7	Supply and fixing of 16A 3pin / 6A 3pin plug socket with indicator lamp and 16Amps fuse unit and 16 Amps switch control (5 in one) on decolam sheet covered board including earth connection Cost and conveyance of all the materials and all labour charges etc., complete on wall.	Each		5.00	
400-8	Supply of 1x40 W patti type tubelights luminaire with copper choke starter and tubelight etc..complete Fixing of 40W tube light luminaire on wall / Ceiling with / TW round blocks with all accessories including giving connections and Cost and conveyance of all the materials and all labour charges etc., complete.	Each		180.00	
400-9	Supply and run of 2 of 56/0.3 MM(4 Sq.mm) FR PVC insulated flexible copper cable in Existing pipe for mains including all labour charges etc..complete	Rmt		590.00	
400-10	Foundation and erection and charges for 7 mtrs long Octogonal /conical pole duly erecting on base plate 290mmx290mmx16mm thick duly providing 4 No's foundation bolts with nuts with providing of M20 c.c work vibrated concreating mixing with necessary steel (15 Kgs) reinforcement as directed by the Field engineers during execution and provide coil erathing including all labour charges and cost and conveyance of materials etc..complete	Each		11.00	
400-11	Fabrication, Transportation and supply of hot-dip galvanized Octogonal Pole with BSEN - 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangement, including the supply of suitable boards with bakelite sheet as per IS specification suitable to withstand the wind speed of 180 KMPH for 7 Mtrs height Pole having dimensions Bottom 130 mm., Top 70mm with 3mm thick, base plate 220 x 220 x 12mm and 4 Nos of M20 x 700 long 'J' bolts along with template.Makes: Bajaj / Valmont / TRANSRAIL.	Each		11.00	
400-12	Fabrication, supply and fixing of luminaire carriage made with 50 mm dia MS 'B' class pipe moulded to 4 feet dia ring wheel and 40 mm dia MS support pieces on four sides inside the wheel with necessary size of Ms pole cap for fixing of ring wheel on the 114.3 mm dia MS pole for fixing luminaire and gear box with Suitable nuts and bolt&Red oxide priming coat& aluminium Paint including cost of all material labour and transportation charges.	Each		11.00	
400-13	Supply and Run ofPVC insuiated 3 core 1.5 sq mm sheathed fiexible copper cable for voltage up to 1100v as for is 694/1990 of make finolex/ RR Kable etc. complete	Rmt		550.00	

BILL OF QUANTITIES					
SI. No	Description of Item	Unit	Rate in Rs	Quantity	Amount in Rs
400-14	Supply and transportation of 90 Watt LED Flood light Luminaire made of pressure diecast aluminium housing with powder coated, having protective toughened glass, Supply Input voltage 120 - 270 V AC, P.F > 0.90, high power LED's having efficacy >120 lumines/watt, System efficacy >95lm/W and junction temperature < 70°C, with Ingress protection IP65, IK05, Driver surge protection 4KV, external Surge protection ≥ 5KV with wide/ Narrow beam optics, THD<10% at 110 Volts AC, driver efficiency >90%, , CCT: 3000K - 5700K, minimum CRI>70, etc., complete. a) LUMINAIRE MAKE : PHILIPS / OSRAM / GE / CROMPTON / BAJAJ / SCHREDER / VIN b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM/ SAMSUNG.	Each		44.00	
400-15	Supply of 10 Sqmm 4 Core XLPE insulated, 1100V grade armoured aluminium cable as per specification confirming to IS:7098 (Part - I) Makes: Polycab / KEI / RPG / Finolex / Orbit / Havells / Paragon / V-Guard / Fortune Art / Gloster/ Suncab / Finecab	Rmt		900.00	
400-16	Supply and fixing of 6-32AMPS 10kasp MCBs including all labour charges etc..complete ISI mark of makeLegrand//Schneider/	Each		106.00	
400-17	Supply & fixing of 4 Way TPN DB Horizontal with IP 43 Protection as for IS:13032 and suitable for 12 nos SP out goings and for 1no 4 pole incomer etc.completeof makes Legrand//Schneider/	Each		7.00	
400-18	Supply and fixing of 63A FP Isolator Makes: Legrand / Schneider	Each		7.00	
400-19	Supply and fixing of 3 phase Meter board size(1) 18" X24" meta board (2) 63Amps porcelain Rewireble fuse unit 3 Nos,including wire and PVC pipe and Labour charges.etc ., complete.	Each		5.00	
400-20	Providing independent earthing by excavating a trench to a depth of 2.1 mtrs. In all soils, as per size specified in the data using 40mm dia "B" class GI pipe of 2.5 mtrs. Length with necessary accessories with home pipe ring duly providing staggered holes including filling with equal proportion of salt and chrcoal in layers and all labours charges etc.,complete for small quarters.	Each		16.00	
400-21	Labour charges for Laying of UG cable upto 50 Sq.mm including making necessary connections and laying of sand back filling of trench after laying etc..complete.	1 Rmt		900.00	
400-22	Removing old Name board and New digital glow sign board including cost and conveyance of materials and labour charges etc..complete as directed by the department authorities	Each		5.00	
Total Amount in Rs					
Total Amount in words :					