

FINANCIAL BID -PACKAGE-I, BOQ's (Annexure-I)
SMART CITY PROJECT- KAKINADA, ANDHRA PRADESH

**Name of the work: Re-Development with additional facilities to Markets (Pedda market, Kotha
peta,Gandhi nagar)**

Sl. No	Description of Item	Unit	Total Quantity	Rate in Rs	Amount
100	Civil Works				
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 lift of 2m 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 etc., complete for finished item of work excluding dewatering charges and seignorage charges etc., SS 20 B as per (APSS 301,308) .	Cum	666.42		
100-2	Filling sand under foundation concrete including cost and conveyance of sand from approved source and labour charges for all operations such as sectioning, ramming, watering and compacting etc., complete as directed by the departmental officers in-charge of the work for finished item of work excluding seignorage charges.(As per APSS 309)	Cum	416.53		
100-3	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 metal 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 all charges for Centering, machine mixing, laying concrete in position to foundations and under flooring bed of 0.1m layer ramming finishing the top surface to the required level curing and excluding seignorage charges etc., and overheads & contractors profit etc. complete for finished item of work, excluding seignorage charges. (APSS No. 402)(APSS No. 402)	Cum	967.27		
100-4	Supply and placing of M-25 grade Design Mix Concrete corresponding to IS 456 using concrete mixture 20mm size graded machine crushed hard granite metal (coarse aggregate) from approved quarry, cost and conveyance of all materials like cement, fine aggregate (sand) coarse aggregate, water etc., to site of work and labour charges for all operations such as centering, machine mixing, laying concrete in position, vibrating and curing etc., complete for finished item of work as directed by the departmental officers in - charge of the work but excluding cost of steel and its fabrication charges for finished item of work, excluding seignorage charges . (As per APSS No. 402)				
a)	For footings	Cum	80.22		
b)	For pedestals	Cum	9.13		
c)	For plinth beam	Cum	107.29		
d)	For Columns	Cum	75.81		
e)	For Beams	Cum	79.73		
f)	For Slabs	Cum	134.23		
100-5	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 etc. complete for finished item of work in all floors (APSS No:1101 & 126)	Kgs	42811.02		
100-6	Supply and construction of Brick masonry 230 mm thick for walls in foundation, super structure 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 , excluding seignorage charges (As per APSS 501 & 504.)	Cum	597.80		
100-7	Plastering 20mm thick in two coats using screened sand with base coat of 16mm thick in CM (1:6) and top coat of 4mm thick in CM (1:3) with dubara sponge finishing including cost and conveyance of all materials like cement, sand, water etc., to site, including all materials, and all operational, incidental charges on materials and including cost of all labour charges for mixing mortar, finishing, scaffolding, lift charges, curing, including cutting grooves as directed by Engineer - in - charge etc., complete for External uneven surfaces of Brick wall and RCC exposed surface and overheads & contractors profit complete for finished item of work but excluding seignorage charges. (As per APSS 901,902,903,904&905)	Sqm	20907.88		

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100-8	Plastering with CM (1:4) 12 mm thick including cost and conveyance of all materials like cement, sand, water etc., to site, and all operational, incidental charges on materials and including cost of all labour charges for mixing mortar, finishing, scaffolding, lift charges, curing, including cutting Grooves as directed by Engineer - in - charge etc., excluding seignorage charges for complete finished item of work. (As per APSS 901.903&904).	Sqm	550.00		
100-9	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. but excluding signorage charges for complete finished item of work for external walls for:-External Colouring - Plastic emulsion paint - 3 Coats (As Per APSS 1201&1216)	Sqm	12330.77		
100-10	Providing and applying synthetic plaster putty or plaster of paris putty or lime punning of average 1 to 2mm 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, sand the surface, clean & wipe off loose dust, applying knifing paste filler by putty knife/muslin pad, air dry for 2 - 3 hrs sand with 180 and 320 no emery paper for the surface preparation including cost and conveyance of all materials to work site and all operational, incidental, labour charges etc., but excluding signorage charges for complete finished item of work for internal walls as directed by the engineer in -charge	Sqm	9015.89		
100-11	Painting to iron grills with two coats of synthetic enamel paint over a coat of primer of approved brand and shade after thoroughly brushing the surface.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., as directed by the Enginneer-In-Charge to complete finished item work (As per APSS 1201,1207&1212)	Sqm	1630.67		
100-12	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 finished item of work.(As per APSS 1101)	Kgs	19088.48		
100-13	Charges for ornamental features to the compound wall including cost & conveyance of all materials to site of work and labouer charges dfor all operations such as mixing mortar, etc.,complete... as directed by the Engineer-in-charge excluding seignorage charges.	Sqm	1445.23		
100-14	Dismantling, clearing away and carefully stacking the useful materials for re-use and disposal of unserviceable materials with 100m lead as directed by the Departmental Officers duly taking actual pre-measurements before dismantling including all labour charges , overheads & contractor profit etc., complete for finished item of work.(CC flooring) .(As per APSS 201 & 202)	Cum	490.00		
100-15	Supply and fixing of Nonskid 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 (1:8) 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, excluding Seignorage charges, complete for finished item of work..(As per APSS 701 & 707)	Sqm	2488.00		
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 (1:8) 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., excluding Seignorage charges, complete for finished item of work. (As per APSS 701,709,707&710)	Sqm	7697.90		
100-17	Supply & fixing of 16 to 18mm thick high polished granite stone slabs other than black and regular colours (i.e. 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 , moulding charges , cost of base coat and overheads & contractors profit complete for finished item of work,and excluding seignorage charges. (S.S.701 & special) (As per APSS 701 & 703)	Sqm	367.00		
100-18	Charges for moulding of 16 to 18mm thick high polished granite stone without any damage including charges for cutting, rubbing,finishing and labour charges etc... complete as directed by the department engineers	Rmt	1092.00		
100-19	Providing and fixing Mangalore tile roofing above sloped roofs as directed by the Engineer and as per the GFC drawing given by the Employer including cost of all materials like cement, sand water and tiles etc., complete, including Seignorage charges, complete for finished item of work	Sqm	1164.00		

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100-20	Supply, delivery and fixing precast C.C.Paver concrete blocks for paving of M-30 grade and thickness not less than 50 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.(As per APSS 402)	Sqm	5280.00		
100-21	Supply, delivery and fixing of 304 grade polished stainless steel traffic bollards 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.	Each	73.00		
100-22	Cost and 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	9.00		
100-23	Supply placing of S.S 304 make twin dust bins of each dia 500mm and depth of 900mm asper the clients drawing etc., complete.	Each	56.00		
100-24	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.	Each	36.00		
100-25	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 10mm rigid PVC foam sheet, mitre cut at two corners and joined with 2 nos of 150mm long brackets of 15x15mm M.S.Square tybe, The two vertical door profiles are to be reinforced with 19x19mm M.S.Square tube of 19 guage. 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 4 nos of screws to be provided for each vertical member & minimum 2 nos horizontal member etc., complete as per manufacturers specification and direction of Engineer-in-charge for finished item of work.	Rmt	150.00		
100-26	Providing and fixing 30mm thick Solid panel PVC door shutter consisting of frame made out of M.S.Tubes of 19 guage thickness and size of 19mm x 19mm for stiles, & 15mm x 15mm for top & bottom rails M.S,frame have a coat of steel primersa of approved make and manufacurte,m M.S.frame shallbe covered with 5mm thck, 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 solvnt cement adhesive etc., an additional 5mm thjick PVC strip of 20mm width is to be stuck on the interior saide of the "C" Channel using PVC solvent adhesive. complete as per directioon of Engineer-in-Charge, manufacturers specification & drawing for finished item of work.	Sqm	60.00		
200	Landscape				
200-1	Bed Preparation : Dressing the surface to the desired shape, laying 6" layer of fine red soil, covered with a thin layer of sand, watering, rolling with hand roller (4" thickness after rolling), including the cost of red earth, sand and labour charges etc complete including the cost of fertilizers, chemicals but excluding grass as per GFC drawings issued by the Employer	Sqm	271.00		
200-2	Cost of pasupalam grass including coneyances etc.,	Sqm	271.00		
200-3	Dibbling the rooted slips of grass at 3-4" apart and ramming (excluding the cost of grass slips)	Sqm	271.00		
200-4	Bed Preparation : Dressing the surface to the desired shape, laying 6" layer of fine red soil, covered with a thin layer of sand, watering, rolling with hand roller (4" thickness after rolling), including the cost of red earth, sand and labour charges etc complete including the cost of fertilizers, chemicals but excluding grass as per GFC drawings issued by the Employer	Sqm	271.00		
200-5	Ground cover/Flower Bed : Bed preparation 6" layer of soil mixture 3:1:1 ratio red soil, farmyard manure and river sand and application of fertilizers (@ 20 gms/pit/sqmt), smooth surface as per design including cost of soil mixture, filling of the soil mixture and internal transportation as per GFC drawings issued by the Employer.	Sqm	215.00		
200-6	Supply, Delivery and planting following Trees/Palms including cost of transportation etc., completed as per GFC drawings issued by the Employer.				
a)	millingtonia	Each	14.00		
b)	plumeria alba	Each	48.00		
c)	allamanda	Each	220.00		
300	Water Supply & Drainage System				
300-1	Supply and Transportation of 3.00HP 20-23 Stage, 3 star Three phase ISI submersible motor pumpset suitable for 4" Bore well. Makes: Kirloskar / Crompton / Texmo / KSB / Aryan Varsha / Lubi.	1Job	3.00		
300-2	providing 100mm dia deep bores well and ground level system water storage tank including cost and conveyance of all materials and with PVC casing pipe with necessary fixtures and labour charges for all operations as per the standards described by the departmental officers etc complete	Rmt	300.00		

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300-3	Supply of polythylin storage tank double layer conforming to IS:12701-1996 with lid (Syntax water tank)	Ltrs.	6000.00		
300-4	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	325.00		
300-5	Supply and fixing of CP Jallies of approval make on wall including cost & conveyance charges all materials ect completed for finished of item	Each	325.00		
300-6	Supplying and fixing of 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)				
a)	110mm dia	Rmt	771.50		
b)	160mm dia	Rmt	420.00		
300-7	Supplying and fixing 40mm dia 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.	Each	15.00		
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.				
a)	16mm dia	Rmt	1069.00		
b)	28mm dia	Rmt	644.00		
c)	40mm dia	Rmt	491.00		
400	Electrification				
400-1	Fabrication and Supply of 4.0 Mt Height G.R.P. Poles for garden posts with as per manufacturer specification with base and suitable pole cap including cost and conveyance of all material including fixing of luminaire and labour charges etc., complete as directed by the departmental officers in-charge of the work for finished item of work	Each	108.00		
400-2	Supply of different sizes of M. S. Pipe brackets (Rate per K.G) 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.	Kgs	110.00		
400-3	Supply and transportation of 18W to 20W street light luminaire made of pressure diecast aluminium body with powder coated, having toughned glass cover input voltage range of 100 to 270 volts AC, power factor > 0.90, high power LED's having efficacy 100 lumines/watt and junction temprature < 85 degree centegrade of IP 65 with optics, total harmonic distortion less than 15% at 110 Volts AC, driver efficiency >90% etc., complete. a) LUMINAIRE MAKE : Surya / MIC / BLU / KRIPA Lights / Fortune Art / SEMTRONICS / Pierlite. b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG etc., including all labour charges for etc., complete as directed by the Departmental Officers for finished item of work.	Each	108.00		
400-4	Fabrication and Supply of 10watts LED Lamps for Gates with as per manufacturer specification with base and suitable pole cap including cost and conveyance of all material including fixing of luminaire and including all labour charges etc., complete as directed by the Departmental Officers for finished item of work.	Each	18.00		
400-5	Supply and installation of Stall lighting with 12watt LED Bulb-B 22 Base, VSP (Voltage surge Protection) upto 2.5kv) etc.. Complete a) LUMINAIRE MAKE : Surya / MIC / BLU / KRIPA Lights / Fortune Art / SEMTRONICS / Pierlite. b) LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG etc., including all labour charges etc., complete as directed by the Departmental Officers for finished item of work.	Each	319.00		
400-6	Supply and run of 2 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 including all labour charges etc., complete as directed by the Departmental Officers for finished item of work.	Rmt	6500.00		
400-7	Supply of 10 Sqmm 4 core XLPE insulated,1100V grade Armoured Alluminium Cable as per specification confirming to IS:7098 (part-1) of makes polycab / KEI / RPG /Finolex /Havells /Paragon / V-Guard / Fortune Art / Gloster /Suncab etc., including all labour charges etc., complete as directed by the Departmental Officers for finished item of work.	Rmt	1800.00		
400-8	Fabrication and erection of 18 SWG CRCA sheet steel enclosure for power control cubicle panel / boxes etc.including cutting, bending drilling, welding and revetingetc.,complete with cleaning with 7 tank process and painting with powder coating including cost and conveyance of all materials and labour charges.(Box size-6"X4"X5") etc., complete as directed by the Departmental Officers for finished item of work.	Each	11.00		

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400-9	Supply and fixing suitable feeder pillar box mad with 14 SWG CRCA sheet including S & F of legrand/Schnieder/siemens/ABB/L&T make 40 A TP MCB'S 6 No SP MCB'S bus bar, 6 Sqmm 3 core copper cable for individual light control, contractor, suitable timer and connectors and provision for energy meter etc.. complete for finished item of work.	Each	12.00		
400-10	Providing independent earthing by excavating a trends 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 quaerters.complete as directed by the Departmental Officers for finished item of work.	1Job	12.00		
400-11	Labour charges for laying of UG cable upto 50 Sq.mm including making necessary connections and laying of sand back filling of trech after laying etc.complete as directed by the Departmental Officers for finished item of work.	Rmt	2100.00		
400-12	Supply and fixing of 4way TPN distribution board with IP-42 (MD) Protection suitable for 3 phase ELCB/RCCB/FP Isolator as incomer and 10KA SP MCB's as outgoing including bus bar arrangements (Make : Legrand/Schneider) 40Amps, 4 Pole Isolator / ELCB / RCCB -1 No, 10kA -6-32A SP MCBs-12Nos etc., complete as directed by the Departmental Officers for finished item of work.	Each	8.00		
400-13	Supply and Transportation of 1x28 /36W recessed/surface mounted box type powder coated energy conserving tube light luminiary with electronic ballast operating voltage range of 90V to 350V power factor >0.98 current less than 130ma crest factor and total harmonic distortrtion shall be as per IS specification with auto cut off at high voltage suitable for 36/40W tube with 5years guarantee for luminaire etc., complete.(Make : Philips/Wipro/Trinic/GE)	Each	12.00		
400-14	Supplying and fixing of 48" ceiling fan of capacitor type with 1mtr length down-rod, canopy, 3 nos baldes of double ball bearing etc., complete with I.S.I standard in high-quality material and high speed etc., complete Crompton greaves /Havells etc., complete as directed by the Departmental Officers for finished item of work.	Each	5.00		
400-15	Supplying, installation, commissioning and testing CCTV system with High definition C.C cemasas, DVR, Display panels, etc with all necessary acceriores, wiring complete and including making necessary connections and all labour charges etc., complete approved makes etc., as directed by the Departmental Officers for finished item of work.	Each	55.00		
				Total Amount	