

**KITCO LIMITED  
NATIONAL GAMES SECRETARIAT**

**Construction of Areakode Stadium Complex at Malappuram District  
CIVIL WORKS  
SPECIFICATION AND SCHEDULE OF QUANTITIES- PART A -CIVIL WORKS**

SI No.	Description	Unit	Quantity	Rate(In figures)	Rate(In words)	Amount(Rs)
<b>1.00</b>	<b>EARTHWORK</b>					
1.01	Earth work excavation in ordinary soil for foundation, trenches, grade beams, etc. including strutting, shoring and packing cavities wherever required, and getting out the excavated soil and then returning the soil as required in layers not exceeding 15 cm in depth, consolidating each layer by watering, ramming, etc., and disposing of surplus excavated earth with initial lead upto 50m and lift upto 1.5m including breaking clods, watering, and sectioning of soil bank, etc., complete as directed by the Engineer-in-charge.	cum	2355.00	132.36	Rupees One Hundred Thirty Two And Paise Thirty Six Only	311708
1.01.01	-do- same as above item but for depth from 1.5m to 3m	cum	1233.00	145.05	Rupees One Hundred Forty Five And Paise Five Only	178847
1.01.02	-do- same as above item but for depth from 3.0m to 4.5m	cum	373.00	157.75	Rupees One Hundred Fifty Seven And Paise Seventy Five Only	58841
1.02	Providing and filling in plinth or in areas or in hollows with available earth , loading, unloading etc.screening, watering, ramming and consolidating in layers of 15 cms complete as directed by Engineer-in-charge.	cum	177.00	72.21	Rupees Seventy Two And Paise Twenty	12781
1.03	Extra for additional lead upto 100m over initial lead of 50m for disposing surplus excavated earth as per the direction of Engineer-in-Charge	cum	1228.00	53.96	Rupees Fifty Three And Paise Ninety Six	66260
1.04	Bailing out water from well with 5 HP engine and pump set including conveyance to the site and, erection, cost of fuel, lubricating oil and other stores etc. complete as directed by the Engineer- in- Charge	hr	20.00	181.64	Rupees One Hundred Eighty One And	3633
1.05	Providing, filling and compacting in areas with selected earth brought from outside in 25cm thick loose layers and dressing,watering and scarifying to get uniform optimum moisture content and compacting to get 95 % of maximum dry density proctor density at OMC with power roller of 8 t					

SI No.	Description	Unit	Quantity	Rate(In figures)	Rate(In words)	Amount(Rs)
	capacity including transportation ,loading, unloading etc,spreading in layers,watering,ramming etc complete as directed by Engineer- in- Charge.	cum	45360.00	451.99	Rupees Four Hundred Fifty One And Paise	20502266
	<b>Sub Total</b>					<b>21134336</b>
<b>2.00</b>	<b>CONCRETE AND ALLIED WORKS</b>					
2.01	Providing and laying PCC 1:4:8 (1 cement, 4 coarse sand and 8 graded stone aggregate 40mm nominal size) properly mixed and consolidated with hand rammers, including cost and conveyance of all materials, labour, shuttering, curing, lead lift etc. complete at all levels and as directed by Engineer- in-Charge.	cum	134.00	4056.44	Rupees Four Thousand Fifty Six And Paise Forty Four Only	543563
2.02	Providing and laying PCC 1:2:4 (1 cement, 2 coarse sand and 4 graded stone aggregate 20mm nominal size) properly mixed and consolidated with hand rammers, including cost and conveyance of all materials, labour, shuttering, curing, lead lift , etc. complete at all levels and as directed by Engineer- in-charge.	cum	123.00	5928.45	Rupees Five Thousand Nine Hundred Twenty Eight And Paise Forty Five Only	729199
2.03	Providing and laying damp-proof course 50mm thick with cement concrete 1:2:4 (1 cement:2 coarse sand:4 graded stone aggregate 20mm nominal size) including cost of all materials, labour charges, etc. complete as directed by the Engineer in Charge.	sqm	231.00	339.26	Rupees Three Hundred Thirty Nine And Paise Twenty Six Only	78369
2.04	Applying a coat of residual petroleum bitumen of penetration 80 / 100 of approved quality using 1.7kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil including cost of all materials, labour charges, etc. complete as directed by the Engineer in Charge.	sqm	231.00	100.76	Rupees One Hundred And Paise Seventy Six Only	23275
2.05	Providing and laying RCC of design mix M25 to proper gradients, lines and levels, machine mixed, mechanically vibrated including cost of centering and shuttering, curing, admixtures in recommended proportion (as per IS 9103)to accelerate, retard setting of concrete improve workability without impairing strength and durability etc complete and					

SI No.	Description	Unit	Quantity	Rate(In figures)	Rate(In words)	Amount(Rs)
	cost, conveyance, lead, lift of all materials, labour, etc. but excluding cost and labour for steel reinforcement for footings, rafts or any other foundation, plinth beams, RCC belts, etc as directed by Engineer-in-charge.	cum	274.00	8957.00	Rupees Eight Thousand Nine Hundred Fifty Seven Only	2454218
2.06	Providing and laying RCC of design mix M25 to proper gradients, lines and levels, machine mixed, mechanically vibrated, including cost of shuttering and centering, curing, admixtures in recommended proportion (as per IS 9103) to accelerate, retard setting of concrete improve workability without impairing strength and durability etc complete and cost, conveyance, lead, lift of all materials, labour, etc. but excluding cost and labour for steel reinforcement for columns, pedestals upto plinth level as directed by Engineer-in-charge.  Rectangular/square columns	cum	39.00	13984.00	Rupees Thirteen Thousand Nine Hundred Eighty Four Only	545376
2.07	Providing and laying RCC of design mix M25 to proper gradients, lines and levels, machine mixed, mechanically vibrated, including cost of shuttering and centering, curing, admixtures in recommended proportion (as per IS 9103) to accelerate, retard setting of concrete improve workability without impairing strength and durability etc complete and cost, conveyance, lead, lift of all materials, labour, etc. but excluding cost and labour for steel reinforcement for columns, pillars, corbels, cornices, etc. as directed by Engineer-in-charge at all levels. Rectangular/square columns	cum	23.00	14526.50	Rupees Fourteen Thousand Five Hundred Twenty Six And Paise Fifty Only	334110
2.07.01	Ground floor					
2.07.02	First floor	cum	23.00	15012.05	Rupees Fifteen Thousand Twelve And Paise Five Only	345277
2.08	Providing and laying RCC of design mix M25 to proper gradients, lines and levels, machine mixed, mechanically vibrated, including cost of shuttering and centering, curing, admixtures in recommended proportion (as per IS 9103) to accelerate, retard setting of concrete improve workability without impairing strength and durability etc complete and cost, conveyance, lead, lift of all materials, labour, etc. but					

SI No.	Description	Unit	Quantity	Rate(In figures)	Rate(In words)	Amount(Rs)
	excluding cost and labour for steel reinforcement for walls of any thickness ,Vertical walls of drain,sump tank,lift etc complete as directed by Engineer-in- charge Upto plinth level	cum	75.00	10616.00	Rupees Ten Thousand Six Hundred Sixteen Only	796200
2.09	Providing and laying RCC of design mix M25 to proper gradients,lines and levels,machine mixed,mechanically vibrated, including cost of shuttering and centering, curing, admixtures in recommended proportion (as per IS 9103)to accelerate, retard setting of concrete improve workability without impairing strength and durability etc complete and cost,conveyance, lead and lift of all materials, labour, etc. but excluding cost and labour of steel reinforcement for beams , lintel and sunshade as directed by Engineer-in-charge.					
2.09.01	Ground floor	cum	103.00	12261.20	Rupees Twelve Thousand Two Hundred Sixty One And Paise Twenty Only	1262904
2.09.02	First floor	cum	52.00	12696.35	Rupees Twelve Thousand Six Hundred Ninety Six And Paise Thirty Five Only	660210
2.09.03	Second floor	cum	3.00	13131.35	Rupees Thirteen Thousand One Hundred Thirty One And Paise Thirty Five Only	39394
2.10	Providing and laying RCC of design mix M25 to proper gradients, lines and levels, machine mixed, mechanically vibrated, including cost of shuttering and centering, curing, admixtures in recommended proportion (as per IS 9103)to accelerate, retard setting of concrete improve workability without impairing strength and durability etc complete and conveyance, lead, lift of all materials labour, etc. but excluding cost and labour of steel reinforcement for roof slabs, cover <u>slabs, sill slabs, sloping slab, stair cases and other slabs as directed by Engineer-in-charge.</u>					
2.10.01	Ground floor	cum	206.00	12195.00	Rupees Twelve Thousand One Hundred Ninety Five Only	2512170
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SI No.	Description	Unit	Quantity	Rate(In figures)	Rate(In words)	Amount(Rs)
2.10.02	First floor	cum	29.00	12648.45	Rupees Twelve Thousand Six Hundred Forty Eight And Paise Forty Five Only	366805
2.10.03	Second Floor	cum	20.00	13101.45	Rupees Thirteen Thousand One Hundred One And Paise Forty Five Only	262029
2.11	Providing and fixing precast RCC of design mix M25 to proper gradients, lines and levels, machine mixed, mechanically vibrated, including cost of shuttering and centering, curing, admixtures in recommended proportion (as per IS 9103)to accelerate, retard setting of concrete improve workability without impairing strength and durability etc complete and conveyance, lead, lift of all materials labour, etc. but excluding cost and labour of steel reinforcement for covers, trench covers, duct covers, platforms, walk ways directed by <u>Engineer-in-charge.</u>	cum	7.00	7979.00	Rupees Seven Thousand Nine Hundred Seventy Nine Only	55853
2.12	Providing, straightening, decoiling, cutting, bending, fixing in place, binding with 22 gauge Iron binding wire all sizes and types of steel reinforcement including cost, conveyance, lead,lift of all materials for all types of RCC works as per drawings/ specifications and as directed by  Engineer-in-charge at all levels	qtl	1171.00	7183.80	Rupees Seven Thousand One Hundred Eighty Three And Paise Eighty Only	8412230
2.13	Supplying and mixing with cement or cement concrete or cement plaster, water proofing compound of approved quality approved by Engineer-in-charge according to proposed mix and as per the requirements or manufacturers specifications at all levels.	kg	162.00	43.64	Rupees Forty Three And Paise Sixty Four Only	7070
<b>Sub Total</b>						<b>19428251</b>

### 3.00 MASONRY WORK

3.01 Providing and constructing brick masonry in C.M 1:6 (1

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SI No.	Description	Unit	Quantity	Rate(In figures)	Rate(In words)	Amount(Rs)
	cement, 6 coarse sand) with country burnt bricks of 22.9x11.2x7 cm size and approved quality (average compressive strength not less than 35 kg/cm2) including scaffolding, raking out of joints, curing, cost and conveyance of all materials, labour, lead, lift, etc. complete for foundation, trenches, basement etc. below highest plinth level as directed by Engineer-in-charge at all levels	cum	8.00	3790.01	Rupees Three Thousand Seven Hundred Ninety And Paise One Only	30320
3.02	Providing and constructing Solid block masonry M-10 grade in CM1:6(1cement, 6 coarse sand) with Solid blocks of 30x20x15 cm size and approved quality including scaffolding, raking out of joints, curing, cost and conveyance of all materials, labour, lead, lift, etc. complete for all types of masonry works below the highest plinth level as directed by Engineer-in-charge at all levels					
	supply	cum	102.00	2450.59	Rupees Two Thousand Four Hundred Fifty And Paise Fifty Nine Only	249960
	laying	cum	102.00	1677.20	Rupees One Thousand Six Hundred Seventy Seven And Paise Twenty Only	171074
3.03	Providing and constructing Solid block masonry M-10 grade in CM1:6(1cement, 6 coarse sand) with Solid blocks of 30x20x15 cm size and approved quality including scaffolding, raking out of joints, curing, cost and conveyance of all materials, labour, lead, lift, etc. complete for all types of masonry works in super structure above highest plinth level as directed by the Engineer-in-charge at all levels					
3.03.01	Ground floor					
3.03.01.01	supply	cum	184.00	2450.59	Rupees Two Thousand Four Hundred Fifty And Paise Fifty Nine Only	450909

SI No.	Description	Unit	Quantity	Rate(In figures)	Rate(In words)	Amount(Rs)
3.03.01.01						
	laying	cum	184.00	1771.89	Rupees One Thousand Seven Hundred Seventy One And Paise Eighty Nine Only	326027
3.03.02	First floor					
3.03.02.01						
	supply	cum	48.00	2450.59	Rupees Two Thousand Four Hundred Fifty And Paise Fifty Nine Only	117628
3.03.02.02						
	laying	cum	48.00	1872.80	Rupees One Thousand Eight Hundred Seventy Two And Paise Eighty Only	89895
3.03.03	Second floor					
3.03.03.01						
	supply	cum	41.00	2450.59	Rupees Two Thousand Four Hundred Fifty And Paise Fifty Nine Only	100474
3.03.03.02						
	laying	cum	41.00	1973.73	Rupees One Thousand Nine Hundred Seventy Three And Paise Seventy Three Only	80923
3.04	Extra for providing and placing in position 2 Nos. 8 mm dia M.S. bars at every third course of half solid block masonry as directed by the Engineer	sqm	24.00	139.36	Rupees One Hundred Thirty Nine And Paise Thirty Six Only	3345
3.05	Providing and constructing random rubble masonry with hardstone uncoursed for foundation and basement in CM 1:6 (1 cement :6 coarse sand) including raking out of joints,filling the joints /hollows with suitable sizes of split stones,filling the joints clearly, curing,cost and conveyance of all materials, cost of bond stone (should be provided at every 0.5 sqm of face area) , lead, lift					

SI No.	Description	Unit	Quantity	Rate(In figures)	Rate(In words)	Amount(Rs)
	etc.complete as directed by Engineer-in-charge.	cum	424.00	2543.36	Rupees Two Thousand Five Hundred Forty Three And Paise Thirty Six Only	1078385
3.06	Providing and laying dry rubble pitching,22.5cm thick and laid in courses and required profile with hammer dressed stones having no sides less than 15cm, with minimum depth of 20 cm including preparing the bedding surface, etc all complete with approved quality & size materials as per design including cost of all material, labour, scaffolding, ladders, platform and staging and cutting on both sides etc complete as per directions by Engineer	sqm	1036.00	350.92	Rupees Three Hundred Fifty And Paise Ninety Two Only	363553
<b>Sub Total</b>						<b>3062494</b>
<b>4.00</b>	<b>JOINERY WORKS</b>					
4.01	Providing and fixing doors fabricated from unplasticized poly vinyl chloride (UPVC) sections. Profiles should be three chamber system which provides high insulation properties with outer frame 60 x 55 x 35 mm with an outer wall thickness of 2.4mm. The door unit will be design with all corner joints mitred and fusion welded. Doors should be steel reinforcement with 25 x 24 x 25 mm steel reinforcement with a thickness of 1 mm to have dimensional stability. The sash should be of 102 x 60 x 62 mm and the mullion should be of 74 x 60 x 34 mm respectively. The profile should have co extruded seal. All the hardware should be screwed with self tapping screws. The lock should be with 2D multipoint locking system. The entire unit should be supplied with all standard accessories and gaskets. The door can be half glazed, full glazed and fully with panel boards of 5mm, 6mm and 10 to 20mm respectively, Complete. The rate shall include the cost and conveyance of all materials labour charges ,lead lift etc complete as directed by the	sqm	51.00	6808.00	Rupees Six Thousand Eight Hundred Eight Only	347208
4.02	Providing and fixing casement windows,ventilators fabricated from unplasticized poly vinyl chloride (UPVC) sections. Profiles should be three chamber system which provides high insulation properties with outer frame 60 x 55 mm with an					



SI No.	Description	Unit	Quantity	Rate(In figures)	Rate(In words)	Amount(Rs)
	<p>outer wall thickness of 2.4mm. The window unit will be design with all corner joints mitred and fusion welded. windowss should be steel reinforcement with 25 x 24 x 25 mm steel reinforcement with a thickness of 1 mm to have dimensional stability. The sash should be of 60x75 mm and the mullion should be of 60x74 mm respectively. The profile should have co extruded seal. All the hardware like friction stayshandles should be screwed with self tapping screws. Thehandles, lock should be designed so that they cannot be released from out side. The window system should be glazed with 5 mm plain float glass and ventilators should be glazed with 3 mm plain float glass The profiles should be cut to length and welded 45 degrees. The window should be designed such that the water drainage does not pass through the reinforcement chamber. The window system should be fixed directly to the plastered brick wall using self expanding nylon plug and driving ms electroplated screws into plugThe rate shall include the cost and conveyance of all materials labour charges ,lead lift etc</p> <p>complete as directed by the Engineer in charge at all levels</p>	sqm	73.00	5658.00	Rupees Five Thousand Six Hundred Fifty Eight Only	413034
4.03	<p>Supplying and fixing FRP frames made of glass fibre conforming to IS: 11551-1986, glass fibre sawings conforming to IS:11390-1985, isophthalic resin conforming to IS: 6746-1972, curing agents, accelerators, fillers, additives, fire retardants and pigments as specified. The frames shall be contact moulded by laying gelcoat at 500gm/m2 and laid over with two layers of FRP mat (one layer of 300 CSM mat and one layer of 450 CSM mat). The CSM mat shall be bonded with isophthalic resin and fillers of additives) by weight. The edges shall be sealed with gelcoat and FRP mat to obtain smooth finish. The frames shall have an overall size of 100x63mm including the thickness of FRP and shall be filled with seasoned treated rubber wood on the inside. Suitable depressions shall be made in the door frames for receiving the fixtures such as hinges, mortice lock as well as 30mm door shutter. (one number mortice lock at the centre and three numbers of 100mm heavy duty hinges). The rate shall include providing and fixing frames of approved colour for, providing and fixing 6 Nos. of flat iron hold fast of size 300mmx30mmx3mm using stainless steel screws, fixing in PCC 1:2:4 blocks, finishing the joints to match the surroundings and finishing the frames by buffing and polishing with wax as directed. (The contractor shall supply 1 No. of frame free of cost for every 25 Nos. of frames supplied at site</p>					

SI No.	Description	Unit	Quantity	Rate(In figures)	Rate(In words)	Amount(Rs)
	<p>or part thereof for destructive testing) including supplying and and fixing FRP door shutters made of glass fibre conforming to IS:11551-1986, glass fibre sawings conforming to IS:11390-1985, isophthalic resin conforming to IS:6746-1972, curing agents, accelerators, fillers, additives, fire retardants and pigments as specified. The shutter shall be contact moulded by laying gelcoat at 500gm/m2 and laid over with two layers of FRP mat (one layer of 300 CSM mat and another layer of 450 CSM mat) for each of the web (panels) and two layers of FRP mat (one layer of 300 CSM mat and another layer of 450 CSM mat) for the flange portion (rails and styles). The CSM mat shall be bonded with isophthalic resin in the ratio of not less than 1:2 (one part of mat : 2 part of isophthalic resin and fillers and additives) by weight. The edges shall be sealed with gelcoat and FRP mat to obtain smooth finish. The shutter/frames shall have an overall thickness of 30mm with a width of 100mm for outer frames and 80mm for resin frames (as per drawings enclosed). The shutter frames shall be provided with treated and seasoned rubber-wood on the insides to receive the tower bolts, handle, mortice lock, hinges, door closers, etc. at specified locations. Suitable depressions shall be made in the shutter frames for receiving the hinges and concealed mortice locks. The rates shall include providing and fixing shutter of approved colour in the frames already provided and fixed, including fixing changes of all accessories and fitting such as hinges, tower bolts, handles, door closers, mortice locks, etc. but excluding the cost of door fittings. The shutter shall be buffed and polished with wax as directed. The thickness of FRP laminate of hollow rails and styles shall be minimum 2mm and thickness of FRP laminate used for panel in shutter shall be minimum 3mm. (Mode of measurement: Length shall be taken as back to back of outer frame and the height shall be taken from the Sill to the top of the outer frame) as directed by the Engineer</p>					
	in charge at site	sqm	23.00	3910.00	Rupees Three Thousand Nine Hundred Ten Only	89930
4.04	Supplying and fixing mortice latch lock of approved make with a pair of brass oxidised/chromium plated handles for single shutters including necessary accessories, etc. complete as					

SI No.	Description	Unit	Quantity	Rate(In figures)	Rate(In words)	Amount(Rs)
	directed by the Engineer-in- charge	no	16.00	652.88	Rupees Six Hundred Fifty Two And Paise Eighty Eight Only	10446
4.05	Providing and fixing IS : 3564 marked aluminium extruded section body tubular type universal hydraulic door closer with double speed adjustment with necessary accessories and screws etc. complete as directed by the Engineer in Charge.	no	12.00	1715.62	Rupees One Thousand Seven Hundred Fifteen And Paise Sixty Two Only	20587
4.06	Providing and fixing powder coated aluminium work for doors, windows, ventilators and partitions (powder coating thickness min 50 microns) with extruded built up standard tubular and other sections of approved make conforming to IS:733 and IS:1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, aluminium snap beading for glazing/panelling, CP brass/stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and panelling to be paid for separately).					
4.06.01	For fixed portion(powder coated aluminium with minimum thickness of powder coating 50 micron)	kg	359.00	320.97	Rupees Three Hundred Twenty And Paise Ninety Seven Only	115228
4.06.01	For shutters of doors, windows & ventilators including providing and fixing hinges/pivots and making provision for fixing of fittings wherever required including the cost of PVC/neoprene gasket required (Fittings shall be paid for separately).	kg	55.00	342.39	Rupees Three Hundred Forty Two And Paise Thirty Nine Only	18831
4.07	Providing and fixing glazing in aluminium door, windows, ventilator shutters and partitions etc. with PVC/neoprene gasket etc. complete as per the architectural drawings and the					
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SI No.	Description	Unit	Quantity	Rate(In figures)	Rate(In words)	Amount(Rs)
	directions of Engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item.)					
4.07.01	With float glass panes of 5.5mm thickness for partitions and doors	sqm	36.00	987.18	Rupees Nine Hundred Eighty Seven And Paise Eighteen Only	35538
4.07.02	With float glass panes of 4.0mm thickness for windows and ventilators	sqm	7.00	827.16	Rupees Eight Hundred Twenty Seven And Paise Sixteen Only	5790
	<b>Sub Total</b>					<b>1056594</b>
<b>5.00</b>	<b>FINISHING WORKS</b>					
5.01	Providing and applying cement plaster in CM 1:5 (1 cement and 5 fine sand) 12mm thick one coat floated hard and trowelled smooth to get a smooth finish to all surfaces such as walls, columns, beams , cornices ,drian side wall etc. including cost and conveyance of all materials, labour, curing, etc as directed by Engineer-in-charge at all levels.	sqm	5477.00	156.96	Rupees One Hundred Fifty Six And Paise Ninety Six Only	859670
5.02	Providing and applying 9mm thick cement plaster to underside of slabs, sunshades, beams and sides of gutter, etc. with CM 1:3 (1 cement and 3 fine sand) one coat floated hard, trowelled smooth, including cost and conveyance of all materials,labour charges, curing, etc. as directed by Engineer-in- charge at all levels.	sqm	1224.00	141.82	Rupees One Hundred Forty One And Paise Eighty Two Only	173588
5.03	Providing and applying cement plastering with CM 1:3 (1cement and 3 fine sand) 15mm thick in two coats including a flushing coat of cement @ 2.2 Kg/sqm including mixing of approved quality water proofing compound(as per manufactures specification or Engineers direction but excluding cost of water proofing compound) over slabs, gutters, sunshades, and smooth surface, etc.including cost and conveyance of all materials,labour, curing, etc.complete as directed by the Engineer-in-charge at all levels.	sqm	903.00	211.73	Rupees Two Hundred Eleven And Paise Seventy Three Only	191192

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SI No.	Description	Unit	Quantity	Rate(In figures)	Rate(In words)	Amount(Rs)
5.04	Pointing random rubble masonry with cement mortar 1:4 (1cement and 4 fine sand) including scaffolding, raking out of joints, curing, cost and conveyance of all materials, labour,lead, lift, etc. complete as directed by Engineer-in-charge.	sqm	133.00	73.21	Rupees Seventy Three And Paise Twenty One Only	9737
5.05	Providing and applying Exterior emulsion paint of approved brand and colour to all exterior surfaces such as walls, columns, ceiling, etc. two or more coats after scraping and cleaning the surface and providing an even finish to make the wall level and smooth including cost and conveyance of all materials, labour, etc. as directed by Engineer-in-charge at all levels.	sqm	1553.00	121.07	Rupees One Hundred Twenty One And Paise Seven Only	188022
5.06	Painting the inside walls with ready mix plastic emulsion paint of approved quality two or more coats to smooth even finish on ceiling and walls including cost and conveyance of all materials to site, labour charges, hire charges for scaffolding, etc as directed by Engineer-in-charge at all levels	sqm	2967.00	92.38	Rupees Ninety Two And Paise Thirty Eight Only	274091
5.07	Providing and applying white cement of approved quality two or more coats as priming coat for all portions including cost and conveyance of all materials to site, labour charges, hire charges for scaffolding, etc as directed by Engineer-in-charge at all levels	sqm	4899.00	16.66	Rupees Sixteen And Paise Sixty Six Only	81617
5.08	Finishing the internal walls with cement based wall putty applied with blade two or more coats and scraped to smooth even level, putty made of from any approved manufacture, including cost and conveyance of all materials to site, labour charges, hire charges for scaffolding, etc. complete for all floors as directed by Engineer in Charge	sqm	2027.00	128.48	Rupees One Hundred Twenty Eight And Paise Forty Eight Only	260429
5.09	Finishing the external walls with cement based wall putty applied with blade two or more coats and scraped to smooth evenlevel, putty made of from any approved manufacturers, including cost and conveyance of all materials to site, labour charges, hire charges for scaffolding, etc. complete for all floors as directed by Engineer in Charge	sqm	1105.00	177.15	Rupees One Hundred Seventy Seven And Paise Fifteen Only	195751

SI No.	Description	Unit	Quantity	Rate(In figures)	Rate(In words)	Amount(Rs)
5.10	Providing and applying two coats of synthetic enamel paint over two coat of approved quality anticorrosive yellow zinchromate primer on steel work including cost and conveyance of all materials,labour charges,scaffolding etc complete as directed by Engineer- in Charge at all levels	sqm	12.00	90.80	Rupees Ninety And Paise Eighty Only	1090
5.11	Providing and applying water proof cement paint of approved brand and colour two coats on walls after scraping and cleaning the surface including cost and conveyance of all materials,labour charges,hire charges for scaffolding etc.complete at all levels	sqm	73.00	50.97	Rupees Fifty And Paise Ninety Seven Only	3721
5.12	Providing and fixing GI chicken wire mesh of 24 gauge ,with minimum of 15cm overlap at junctions of brick masonry and RCC, when brick work done after the casting of RCC beams and columns including drilling the concrete/brick and fixing with fibre plug, screw & washers of suitable size etc. including cost of all materials, labour, etc. complete as directed by Engineer-in-charge at all levels.	sqm	150.00	46.29	Rupees Forty Six And Paise Twenty Nine Only	6944
5.13	Providing and applying oil bound distemper of approved brand and colour to interior surfaces such as walls, beams,columns, etc, two coats over one coat of primer after cleaning and scraping the surface and providing an even finish to make the wall level and smooth including cost and conveyance of all materials,labour, scaffolding etc. complete as directed by Engineer-in-charge.	sqm	305.00	47.43	Rupees Forty Seven And Paise Forty Three Only	14466
<b>Sub Total</b>						<b>2260317</b>

SI No.	Description	Unit	Quantity	Rate(In figures)	Rate(In words)	Amount(Rs)
<b>6.00 FLOORING WORKS</b>						
6.01	Providing and laying best quality full body glazed vitrified tiles 10mm thick of approved colour ,make and patterns in flooring skirting, treads of steps, landings etc., including an underlayer of cement mortar 1:4 (1 cement : 4 coarse sand) 20mm thick and cement slurry @ 3.3kg of cement per sqm. Finished with flush pointing using approved joint filler of matching shade including cost and conveyance of all materials labour etc.complete as directed by Engineer-in-charge at all levels Size of Tile 60x60 cm	sqm	971.00	1112.00	Rupees One Thousand One Hundred Twelve Only	1079752
6.02	Providing and laying antiskid ceramic tiles 6mm thick of approved colour ,make and patterns in flooring, skirting, treads of steps, landings etc., including an underlayer of cement mortar 1:4 ( 1 cement : 4coarse sand) 20mm thick and cement slurry @ 3.3kg cement per sqm finished with flush pointing using approved joint filler of matching shade including cost and conveyance of all materials labour etc. complete as directed by Engineer-in-charge at all levels	sqm	185.00	801.85	Rupees Eight Hundred One And Paise Eighty Five Only	148342
6.03	Providing and laying coloured glazed tiles of approved design, pattern and make 200x300 mm on walls for dado etc., including an underlayer of cement mortar 1:3 (1 cement : 3 coarse sand) 12mm thick and cement slurry @ 3.3 kg of cement per sqm finished with flush pointing using approved joint filler of matching shade including cost and conveyance of all materials, labour, etc. complete as directed by Engineer-in-charge at all levels.	sqm	361.00	838.60	Rupees Eight Hundred Thirty Eight And Paise Sixty Only	302735
6.04	Providing and laying 16 to 20 mm thick polished granite slab with edge rounding & polishing if required of approved colour,make and pattern on floors, top of counter slabs, skirting, treads of steps, landings etc., including an underlayer of cement mortar 1:4 ( 1 cement : 4 coarse sand) 20mm thick and cement slurry @ 3.3kg of cement per sqm. Finished with flush pointing using approved joint filler of matching shade including cost and conveyance of all materials labour etc.complete as directed by Engineer-in-charge at all levels	sqm	8.00	2925.88	Rupees Two Thousand Nine Hundred Twenty Five And Paise Eighty Eight Only	23407
6.05	Providing and cutting openings in granite slab for fixing counter top wash basin including rounding the sides, finishing, all					

SI No.	Description	Unit	Quantity	Rate(In figures)	Rate(In words)	Amount(Rs)
	labour charges,sundries etc. complete as directed by					
	Engineer-in-charge at all levels.	no	14.00	319.12	Rupees Three Hundred Nineteen And Paise Twelve Only	4468
6.06	Cutting, polishing, grinding free edges/nosing of granite slabs in staircase treads, counter tops etc.with single step grooves including all labour charges,sundries etc complete as					
	directed by Engineer-in-charge at all levels.	m	232.00	198.97	Rupees One Hundred Ninety Eight And Paise Ninety Seven Only	46161
6.07	Providing and laying 50 mm thick Indian Patent Stone (IPS) flooring, over concrete/RCC or any other subgrade after cleaning the surface and applying a coat of cement slurry @ 2 kg of cement per sq.m., with under layer of 38 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) and top layer of 12mm thick cement mortar 1:3 (1 cement : 3 fine sand) with a flushing coat of cement slurry @ 2 kg. of cement per sq.m providing and fixing 4 mm thick glass strips in approved pattern including cost and conveyance of all materials, labour, curing, etc complete as directed by Engineer-in-charge at all					
	levels	sqm	20.00	361.39	Rupees Three Hundred Sixty One And Paise Thirty Nine Only	7228
6.08	Cement plaster skirting 15mm thick with cement mortar 1:3 ( 1 cement : 3 coarse sand ) finished with a floating coat of neat cement including rounding of junction with floor where required					
	at all levels as directed by Engineer-in-charge	sqm	3.00	190.24	Rupees One Hundred Ninety And Paise Twenty Four Only	571
6.09	Supplying and paving M40 grade interlocking type machine pressed cobble stone 80 mm thick of approved make ,shade and shape for courtyard laid over 50mm thick with sand bed and compacting and including cost and conveyance of all					
	materials labour charges etc complete	sqm	1360.00	733.46	Rupees Seven Hundred Thirty Three And Paise Forty Six Only	997506
	<b>Sub Total</b>					<b>2610169</b>
<b>7.00</b>	<b>STEEL WORK</b>					
7.01	Supplying and fixing MS fabricated grills to the windows,gate grills etc using MS flat,rod or sheet as per drawing including cutting, fabricating, welding, fixing to window frames or wall					



SI No.	Description	Unit	Quantity	Rate(In figures)	Rate(In words)	Amount(Rs)
	with cement concrete blocks, painting with two coats of anticorrosive yellow zinc chromate primer and two coats of synthetic enamel paint of approved quality and colour, all cost of materials and labour charges, etc. complete as directed by the Engineer- in- charge at all levels	qtl	24.00	9381.31	Rupees Nine Thousand Three Hundred Eighty One And Paise Thirty One Only	225151
7.02	Supplying and fixing handrails made with stainless steel pipe 50mm dia vertical @ 120cm c/c for a finished height of 100 cm horizontal 50 mm dia at the top and 4 nos intermediate horizontal pipe 25 mm dia including cutting fabricating, welding, fixing all cost of materials and labour charges etc. complete in All floors	m	73.00	3068.69	Rupees Three Thousand Sixty Eight And Paise Sixty Nine Only	224014
7.03	Supplying and fixing single sections using MS pipe, Angles,Channels etc for the truss of the roof as per drawing to suit the size of the sheet roofing bolted to the cleats of the trusses including cost of all materials, labour charges and cutting to the required length including fixing in position and painting with two coats of yellow zinc chromate primer and two coats of synthetic enamel paint etc. complete as directed by Engineer-in-charge	qtl	73.00	7052.86	Rupees Seven Thousand Fifty Two And Paise Eighty Six Only	514859
7.04	Supplying and fixing cast iron manhole cover of size 600x600mm with frame work and weight not less than 50 KG including cost and conveyance of materials,all lead and lift, labour,etc.as directed by the Engineer-in-charge at all levels.	no	7.00	4855.85	Rupees Four Thousand Eight Hundred Fifty Five And Paise Eighty Five Only	33991
7.05	Supplying and fixing cast iron manhole cover of size 600x600mm with frame work and weight not less than 200 KG including cost and conveyance of materials,all lead and lift, labour,etc.as directed by the Engineer-in-charge at all levels.	no	14.00	23514.05	Rupees Twenty Three Thousand Five Hundred Fourteen And Paise Five Only	329197
7.06	Providing and fixing PVC coated GI chain link fencing of height 1.8m with 50x50mm woven net with 2.85 mm dia GI wire +1.15 mm thk PVC coating (total 4mm dia) using angles and posts of ISA 50x50x 6 and ISMC 75 as per drawing. Chain link will be spirally woven netting of 1.8 m height and is fixed to an angle iron frame of ISA 50x50x6mm using nuts and bolts and					

SI No.	Description	Unit	Quantity	Rate(In figures)	Rate(In words)	Amount(Rs)
	the angle frame is fixed to the ISMC 75 ,used as pillars at an interval of 2.4m, and it is fixed in PCC block 1:2:4 of size 450x450x600 mm. The rate includes cost and conveyance of all materials, painting with two coat of anti corrosive yellow zinc chromate primer and two coats of synthetic enamel paint labour charges, lead, lift, etc complete at all levels and as directed by Engineer-in-charge.(Earth work, PCC, Plastering, etc. shall be measured under relevant items)	m	506.00	3018.47	Rupees Three Thousand Eighteen And Paise Forty Seven Only	1527346
7.07	Supplying and fixing rolling shutters of approved make painted with two coats of anticorrosive yellow zinc chromate primer and two coats of synthetic enamel paint,(painting shall be measured separately), made of 80x1.25mm MS laths interlocked together through their entire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with mechanical operation complete including the cost of providing and fixing necessary top cover made of 1.25mm MS sheet, etc complete including cost and conveyance as per specifications and as directed by Engineer-in-charge.	sqm	6.00	3034.48	Rupees Three Thousand Thirty Four And Paise Forty Eight Only	18207
7.08	Providing and fixing ball bearings for rolling shutters including cost and conveyance of all materials,labour charges etc complete as directed by the Engineer in charge	no	2.00	613.18	Rupees Six Hundred Thirteen And Paise Eighteen Only	1226
<b>Sub Total</b>						<b>2873991</b>
<b>8.00 ROOFING WORKS</b>						
8.01	Supplying and fixing 8mm thick of polycarbonate multiwall sheets over the frame work already erected, sheets fixed to the frame using special aluminium extrusions, including all fasteners fixtures as per site requirement, applying silicone sealent wherever necessary so as to make the roof water tight at all heights as per manufacturers Specifications and as directed by Engineer-in-Charge.	sqm	40.00	3170.70	Rupees Three Thousand One Hundred Seventy And Paise Seventy Only	126828
8.02	Providing Gypsum board ceiling with ISI standard Gypsum					
Tenderer			196			Chief Engineer

SI No.	Description	Unit	Quantity	Rate(In figures)	Rate(In words)	Amount(Rs)
	board with alround cornices, supported by frame work made with G.I perimeter channels (MF6A) along the perimeter of ceiling and sides of RCC column, screwing to brick walls/RCC surface with the help of Nylon sleeves and screws at 600mm c/c, then suspending or fixing G.I. intermediate channels (MF7) at 1200mm c/c (or nearest spacing) with the help of G.I. hanger/ steel G.I.supports/G.I ceiling angles fixed to supports with G.I. cleat and steel expansion fastening, then the ceiling section (MFS) fixed to the intermediate channels for fixing Gypsum sheet with the help of connecting clip and screws in both directions perpendicular to the intermediate channels at 400mm c/c at required level including cost and conveyance of all materials and labour charges, scaffolding charges, finishing the joints of the sheets with Gypsum powder paste finishing the surface to smooth mat finish painting one coat of white cement etc. complete for interior ceiling for all floors	sqm	116.00	690.00	Rupees Six Hundred Ninety Only	80040
	<b>Sub total</b>					<b>206868</b>
<b>9.00</b>	<b>WATER SUPPLY WORKS</b>					
9.01	Supplying, laying, and jointing schedule 40 UPVC ASTM pipe and Schedule 80 ASTM-UPVC specials of approved make such as tees elbows, unions,bends sockets etc including cutting and making good the walls, floors, etc and testing the pipe line to the specified hydrostatic test pressure, including retesting if necessary etc complete as directed by Engineer in charge.					
9.01.01	100mm dia	m	6.00	515.98	Rupees Five Hundred Fifteen And Paise Ninety Eight Only	3096
9.01.02	80mm dia	m	12.00	450.45	Rupees Four Hundred Fifty And Paise Forty Five Only	5405
9.01.03	65mm dia	m	26.00	344.86	Rupees Three Hundred Forty Four And Paise Eighty Six Only	8966
9.01.04	50mm dia	m	143.00	199.99	Rupees One Hundred Ninety Nine And Paise Ninety Nine Only	28599
	Tenderer		197			Chief Engineer

SI No.	Description	Unit	Quantity	Rate(In figures)	Rate(In words)	Amount(Rs)
9.01.05	40mm dia	m	80.00	154.10	Rupees One Hundred Fifty Four And Paise Ten Only	12328
9.01.06	32 mm dia	m	36.00	131.88	Rupees One Hundred Thirty One And Paise Eighty Eight Only	4748
9.01.07	25 mm dia	m	24.00	99.85	Rupees Ninety Nine And Paise Eighty Five Only	2396
9.02	Supplying, threading, laying and jointing hard PVC pipes(10kg/cm <sup>2</sup> ) with specials such as tees, bends, elbows, unions, etc. with clamps including making good the walls, floors, etc. testing the lines after connecting to mains, rectifying any leakage or defects, etc., complete all as directed by the Engineer-in-charge for concealed lines for water supply.					
9.02.01	20 mm dia					
	supply	m	14.00	16.80	Rupees Sixteen And Paise Eighty Only	235
	laying	m	14.00	92.44	Rupees Ninety Two And Paise Forty Four Only	1294
9.02.02	25 mm dia					
	supply	m	56.00	22.88	Rupees Twenty Two And Paise Eighty Eight Only	1281
	laying	m	56.00	121.54	Rupees One Hundred Twenty One And Paise Fifty Four Only	6806
9.02.03	32 mm dia					
	supply	m	28.00	35.05	Rupees Thirty Five And Paise Five Only	981
	laying	m	28.00	121.53	Rupees One Hundred Twenty One And Paise Fifty Three Only	3403
9.02.04	40 mm dia Tenderer					

SI No.	Description	Unit	Quantity	Rate(In figures)	Rate(In words)	Amount(Rs)
	supply	m	14.00	58.59	Rupees Fifty Eight And Paise Fifty Nine Only	820
	laying	m	14.00	121.54	Rupees One Hundred Twenty One And Paise Fifty Four Only	1702
9.03	Supplying, laying, jointing and hydrostatically testing ISI marked PVC pipes as per IS 4985 and specials such as Tees, elbows, bends, flanges, reducers, end caps, saddles, plugs, coupling, etc. as per IS 7834 or IS 10124 as the case may be including cost of all jointing materials like solvent cement, bolts, nuts, rubber washers, ferrule, pipe supports, cost of extra wastage of fittings during laying of pipe line such as rectification and recharging of the existing line as and when required etc hire of tools and plant, cost and conveyance of water for testing after connecting to mains including all testing charges, rectifying any leakage or defects etc. complete as directed by Engineer-in-charge for <b>exposed lines for water supply.</b>					
9.03.01	63 mm dia ( 10 kg/cm <sup>2</sup> )	m	18.00	144.24	Rupees One Hundred Forty Four And Paise Twenty Four Only	2596
9.03.02	50 mm dia (10 kg/cm <sup>2</sup> )	m	27.00	107.74	Rupees One Hundred Seven And Paise Seventy Four Only	2909
9.03.03	40 mm dia (10 kg/cm <sup>2</sup> )	m	18.00	75.94	Rupees Seventy Five And Paise Ninety Four Only	1367
9.05	Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes SDR 7.4 U V stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply including all PP - R plain & brass threaded polypropylene random fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer-in-charge.					
9.05.01	PN-16 Pipe 16mm OD					
	supply	m	15.00	57.37	Rupees Fifty Seven And Paise Thirty Seven Only	861
	laying	m	15.00	162.28	Rupees One Hundred Sixty Two And Paise Twenty Eight Only	2434
Tenderer			199			Chief Engineer

SI No.	Description	Unit	Quantity	Rate(In figures)	Rate(In words)	Amount(Rs)
9.05.02	PN-16Pipe 20mm OD					
	supply	m	25.00	88.92	Rupees Eighty Eight And Paise Ninety Two Only	2223
	laying	m	25.00	158.16	Rupees One Hundred Fifty Eight And Paise Sixteen Only	3954
9.05.03	PN-16Pipe 25mm OD					
	supply	m	30.00	137.63	Rupees One Hundred Thirty Seven And Paise Sixty Three Only	4129
	laying	m	30.00	151.81	Rupees One Hundred Fifty One And Paise Eighty One Only	4554
9.06	Providing and fixing brass short body bib cock (heavy duty)confirming to IS: 8931of approved quality 15 mm dia including cost of all materials, labour charges , etc. complete as directed by Engineer in charge	no	14.00	463.37	Rupees Four Hundred Sixty Three And Paise Thirty Seven Only	6487
9.07	Providing and fixing full way GM valve with wheel (superior quality) including cost of all materials,labour charges etc complete as directed by the Engineer in Charge					
9.07.01	80 mm dia	no	2.00	6173.20	Rupees Six Thousand One Hundred Seventy Three And Paise Twenty Only	12346
9.07.02	65 mm dia	no	1.00	4522.95	Rupees Four Thousand Five Hundred Twenty Two And Paise Ninety Five Only	4523
9.07.03	50 mm dia	no	2.00	2921.00	Rupees Two Thousand Nine Hundred Twenty One Only	5842
9.07.04	40mm dia	no	5.00	1978.00	Rupees One Thousand Nine Hundred Seventy Eight Only	9890
9.07.05	32mm dia	no	8.00	1359.30	Rupees One Thousand Three Hundred Fifty Nine And Paise Thirty Only	10874
9.07.06	25mm dia	no	5.00	933.80	Rupees Nine Hundred Thirty Three And Paise Eighty Only	4669
Tenderer			200			Chief Engineer

SI No.	Description	Unit	Quantity	Rate(In figures)	Rate(In words)	Amount(Rs)
9.08	Providing & fixing angle valve for geyser points as directed by the Engineer in Charge(The purchase price considered including all accessories is Rs 820/- and any deviation plus or minus in the purchase price will be adjusted in the price quoted)	no	7.00	948.75	Rupees Nine Hundred Forty Eight And Paise Seventy Five Only	6641
9.09	Supplying, laying and jointing hard PVC pipes (working pressure 6 kg/cm <sup>2</sup> ) with PVC specials such as tees, bends, door bend, door tee, elbows, unions, etc. with clamps including earthwork, refilling, testing the lines rectifying any leakages or defects, etc. complete all as directed by the Engineer-in-charge for soil waste, rain water, drains, vent pipe, etc. Complete as directed by the Engineer in charge for under ground lines.					
9.09.01	160 mmdia	m	90.00	472.41	Rupees Four Hundred Seventy Two And Paise Forty One Only	42517
9.10	Providing and fixing gun metal non-return valve of approved quality, screwed and including all necessary fittings					
9.10.01	25 mm	no	1.00	705.44	Rupees Seven Hundred Five And Paise Forty Four Only	705
9.10.02	40 mm	no	5.00	1351.54	Rupees One Thousand Three Hundred Fifty One And Paise Fifty Four Only	6758
9.10.03	50 mm	no	2.00	2121.64	Rupees Two Thousand One Hundred Twenty One And Paise Sixty Four Only	4243
9.11	Providing and fixing GM footvalve, flanged type, CI construction including all necessary fittings as per the direction of Engineer-in-charge.					
	50 mm	no	4.00	1755.05	Rupees One Thousand Seven Hundred Fifty Five And Paise Five Only	7020
	25 mm	no	1.00	666.99	Rupees Six Hundred Sixty Six And Paise Ninety Nine Only	667
9.12	Supplying and fixing of CI double flanged wall casting pipe with puddle, 0.6m length					
9.12.01	65mm dia	no	2.00	2020.26	Rupees Two Thousand Twenty And Paise Twenty Six Only	4041
9.12.02	80mm dia	no	2.00	2356.06	Rupees Two Thousand Three Hundred Fifty Six And Paise Six Only	4712

Tenderer

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Chief Engineer

SI No.	Description	Unit	Quantity	Rate(In figures)	Rate(In words)	Amount(Rs)
9.12.01	100mm dia	no	2.00	2774.66	Rupees Two Thousand Seven Hundred Seventy Four And Paise Sixty Six Only	5549
9.12.02	150 mm dia	no	1.00	3445.11	Rupees Three Thousand Four Hundred Forty Five And Paise Eleven Only	3445
9.13	Supplying and fixing of centrifugal pump, with CI construction, CI impeller complete with motor, base plate, foundation bolts, nuts, pressure guage and all accessories. and working with 415V, 3ph and 50 Hz frequency  Capacity : 10 m3/hr.  Head : 22 m	no	4.00	13229.00	Rupees Thirteen Thousand Two Hundred Twenty Nine Only	52916
9.14	Supplying and fixing of openwell submersible pump, with CI construction, CI impeller complete with motor, base plate, foundation bolts, nuts, pressure guage and all accessories. and working with 415V, 3ph and 50 Hz frequency Capacity : 7 cum/hr.  Head range: 18m	no	1.00	12029.00	Rupees Twelve Thousand Twenty Nine Only	12029
9.15	Supplying and installing wall mounted stainless steel filter for filtering roof top rain water to sump by gravity including supplying, threading and jointing pipes for collecting the dirt particles through one end and clean water at other end with all other accessories etc. including cost and conveyance of all materials, labour etc. complete and as directed by Engineer-in-Charge.					
9.15.01	Filter for 110sqm area	no	4.00	6727.50	Rupees Six Thousand Seven Hundred Twenty Seven And Paise Fifty Only	26910
9.16	Supplying and fixing water tank of HDPE ( Syntex tank or equivalent ) with cover, overflow pipe, outlets for cleaning & delivery etc (To be provided as per the required capacity and numbers) as directed by Engineer- in- Charge at all levels  PPR pipes	ltr	6000.00	5.35	Rupees Five And Paise Thirty Five Only	32100
<b>Sub Total</b>						<b>371974</b>
Tenderer		202			Chief Engineer	



SI No.	Description	Unit	Quantity	Rate(In figures)	Rate(In words)	Amount(Rs)
<b>10.00 SANITARY WORKS</b>						
10.01	Supplying, laying and jointing hard PVC pipes (working pressure 6 kg/cm <sup>2</sup> ) with PVC specials such as tees, bends, door bend, door tee, elbows, unions, etc. with clamps including cutting and making good the walls, testing the lines rectifying any leakages or defects, etc. complete all as directed by the Engineer-in-charge for soil waste, rain water, drains, vent pipe, etc. Complete as directed by the Engineer in charge for concealed works					
10.01.01	110mm dia	m	28.00	456.67	Rupees Four Hundred Fifty Six And Paise Sixty Seven Only	12787
10.01.02	75mm dia	m	56.00	298.71	Rupees Two Hundred Ninety Eight And Paise Seventy One Only	16728
10.01.03	50mm dia	m	14.00	183.59	Rupees One Hundred Eighty Three And Paise Fifty Nine Only	2570
10.02	Supplying, laying and jointing hard PVC pipes (working pressure 6 kg/cm <sup>2</sup> ) with PVC specials such as tees, bends, door bend, door tee, elbows, unions, etc. with clamps including earthwork, refilling, testing the lines rectifying any leakages or defects, etc. complete all as directed by the Engineer-in-charge for soil waste, rain water, drains, vent pipe, etc. Complete as directed by the Engineer in charge for under ground lines.					
10.02.01	160 mm dia	m	90.00	472.41	Rupees Four Hundred Seventy Two And Paise Forty One Only	42517
10.02.02	110mm dia	m	80.00	346.77	Rupees Three Hundred Forty Six And Paise Seventy Seven Only	27742
10.02.03	75mm dia	m	18.00	190.78	Rupees One Hundred Ninety And Paise Seventy Eight Only	3434
10.03	Supplying, laying and jointing hard PVC pipes with PVC specials such as tees, bends, door bend, door tee, elbows, unions, etc. with clamps testing the lines rectifying any leakages or defects, etc. complete as directed by the Engineer-in-charge for soil, waste, rain water, drains, vent pipe, etc. concealed or open at all levels including cost and					

SI No.	Description	Unit	Quantity	Rate(In figures)	Rate(In words)	Amount(Rs)
	conveyance of all materials, labour charges, sundries etc complete for internal work-exposed on walls as directed by the Engineer in charge					
10.03.01	110mm OD(6 kg/cm2)	m	144.00	286.99	Rupees Two Hundred Eighty Six And Paise Ninety Nine Only	41327
10.03.02	75mm OD(6 kg/cm2)	m	36.00	141.46	Rupees One Hundred Forty One And Paise Forty Six Only	5093
10.03.03	75mm OD(4 kg/cm2)	m	36.00	108.13	Rupees One Hundred Eight And Paise Thirteen Only	3893
10.04	Providing and fixing approved quality white vitreous china counter top wash basin of 63x50cm and make including one CP brass pillar cock 15 mm, CP brass waste coupling 32 mm dia, 32mm dia CP brass bottle trap 15 mm dia CP brass angle valve, with adequate C./M.S bracket supports including painting of fittings and brackets, cutting and making good the walls wherever required, including connecting pipes with all fittings, etc., complete as directed by the Engineer in charge(The purchase price considered for wash basin is Rs.2950,bottle trap is Rs.700 ,pillar cock is Rs.845 angle cock is Rs.865 and any deviation plus or minus in the purchase price will be adjusted in the price quoted).	no	22.00	7216.87	Rupees Seven Thousand Two Hundred Sixteen And Paise Eighty Seven Only	158771
10.05	Supplying and fixing European type white glazed WC pan with trap including duroplastic seat and lid, with CP brass hinges and rubber buffers, Cistern and Lid Dual flush, with cistern fittings and brackets, 40mm dia PVC flush bend over flow pipe with mosquito proof arrangements, angle valve with PVC connection etc. complete including cutting and making good the walls and floors etc complete as directed by the Engineer-in-charge (The purchase price considered for EWC is Rs.4055,Cistern with Lid is Rs1385 ,fitting is Rs 1535/- and seat cover Rs 710/- plus or minus in the purchase price will be adjusted in the price quoted).	no	14.00	10778.49	Rupees Ten Thousand Seven Hundred Seventy Eight And Paise Forty Nine Only	150899
10.06	Providing and fixing white vitreous china flat back large urinal of 59x39x37.5 cm or nearest size of approved make with fittings, standard size CP brass flush pipe, spreaders with unions and clamps (all in CP brass) with waste fitting as per IS:2556, CI trap with outlet grating and other couplings in CP brass including paintings of fittings and brackets, cutting and making					
Tenderer			204			Chief Engineer

SI No.	Description	Unit	Quantity	Rate(In figures)	Rate(In words)	Amount(Rs)
	good the walls and floors whereveer required. Single half stall urinals with 5 litre PVC automatic flushing cistern ( The purchase price considered for urinal basin is Rs.2800, angle cock is Rs.865, auto cistern Rs 1105 and any deviation plus or minus in the purchase price will be adjusted in the price quoted).	no	12.00	6965.49	Rupees Six Thousand Nine Hundred Sixty Five And Paise Forty Nine Only	83586
10.07	Supplying and fixing approved quality star white vitreous china urinal division plate 68 x 30cm size including cost and conveyance of all material, labour charge, lead, lift, all taxes ,cutting & making good walls, etc. complete as directed by the Engineer in Charge ( The purchase price considered for urinal division plate is Rs.1180, and any deviation plus or minus in the purchase price will be adjusted in the price quoted).	no	12.00	1454.21	Rupees One Thousand Four Hundred Fifty Four And Paise Twenty One Only	17451
10.08	Providing and fixing stainless steel kitchen sink of approved brand and finish and size not less than 610x460mm and bowl depth not less than 200mm and of thickness not less than 1mm with all necessary fittings including waste coupling of matching size and CP strainer ,one CP brass swan neck /wall mounted pillar cock 15 mm size,15 mm dia CP angle valve PVC connection etc,CI/MS brackets,complete with all necessary fittings including cost and conveyance of all material, labour charge, lead, lift, all taxes,painting the brackets,cutting & making good walls,floors etc complete as directed by the Engineer- in-Charge (The purchase price considered for sink is Rs.1942, ,pillar cock is Rs.515 angle cock is Rs.495 and any deviation plus or minus in the purchase price will be adjusted in the price quoted).					
	supply	no	2.00	1161.50	Rupees One Thousand One Hundred Sixty One And Paise Fifty Only	2323
	fixing	no	2.00	3550.61	Rupees Three Thousand Five Hundred Fifty And Paise Sixty One Only	7101
10.09	Providing and fixing premium quality C.P. brass overhead shower 4" and wall flange of approved make and model including cost of all materials, labour etc., complete as directed by the Engineer-in-charge at all levels. (The purchase price considered including all accessories is Rs.925/- and any deviation plus or minus in the purchase price will be adjusted in the price quoted.)	no	7.00	1080.24	Rupees One Thousand Eighty And Paise Twenty Four Only	7562

Tenderer

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Chief Engineer

SI No.	Description	Unit	Quantity	Rate(In figures)	Rate(In words)	Amount(Rs)
10.10	Providing and fixing health faucets, angle cock with flange for health faucet of approved make with 8mmdia 1meter long flexible tube and wall hook with all fittings and fixtures complete including cost and conveyance of all material, labour charge, lead, lift, all taxes, cutting and making good the walls and floors etc complete as directed by Engineer in Charge (The purchase price considered for health faucet is Rs.1325/- and angle cock Rs 865/- and any deviation plus or minus in the purchase price will be adjusted in the price quoted)	no	14.00	2534.99	Rupees Two Thousand Five Hundred Thirty Four And Paise Ninety Nine Only	35490
10.11	Supplying and fixing the following approved quality and make allied toilet fixtures including cost and conveyance of all materials labour charges ,lead, lift, all taxes ,cutting and making good the walls and floors etc complete etc complete as directed by the Engineer- in-Charge					
10.11.01	CP brass Soap tray (The purchase price considered including all accessories is Rs.610/- and any deviation plus or minus in the purchase price will be adjusted in the price quoted)	no	10.00	169.42	Rupees One Hundred Sixty Nine And Paise Forty Two Only	1694
10.11.02	CP towel rod with end fixtures 600mm long (The purchase price considered including all accessories is Rs.800/- and any deviation plus or minus in the purchase price will be adjusted in the price quoted)	no	9.00	194.27	Rupees One Hundred Ninety Four And Paise Twenty Seven Only	1748
10.11.03	Toilet paper holder (The purchase price considered including all accessories is Rs.975/- and any deviation plus or minus in the purchase price will be adjusted in the price quoted)	no	10.00	156.19	Rupees One Hundred Fifty Six And Paise Nineteen Only	1562
10.12	Supplying approved make PVC gully trap and CI grating 300mmx300mm size and light duty C.I cover and frames 500mmx500mm of weight not less than 21kg each(CI MH cover and frame as per IS:1726) single sealed of size conveying to size the above mentioned items and constructing 50cmx50cm internal size gulley trap chamber and depth upto 60cm,230 thk brick wall in CM 1:6 on a foundation of PCC 1:4:8.100mm thick plastering inside with CM 1:3,12mm thk with a neat cement flushing coat and conveying to site,cleaning ,installing and testing approved make PVC gulley					

SI No.	Description	Unit	Quantity	Rate(In figures)	Rate(In words)	Amount(Rs)
	trap with 160mm outlet(Fabricated),surrounding with CC 1:1.5:3, 150x150mm,top with CI grating above the PVC gulley trap and light duy CI cover and frame over the chamber including cost of all materials, etc complete as per approved drawing and as directed by Engineer-in Charge	no	4.00	4066.07	Rupees Four Thousand Sixty Six And Paise Seven Only	16264
10.13	Providing and constructing brick masonry manhole with bricks in cement mortar1:6 (1 cement : 6 find sand) RCC top slab with1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), base concrete1:4:8 mix (1 cement : 4 coarse sand : 8 gradedstone aggregate 40mm nominal size) 10 cm thick, inside & outside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a flushing coat of neat cement and making channels in cement concrete 1:2:4 mix (1cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) neatly finished complete as per standard design including cost of materials, labour, etc. complete, inside size 60x60 cm in plan area	no	10.00	3853.68	Rupees Three Thousand Eight Hundred Fifty Three And Paise Sixty Eight Only	38537
10.14	Providing and constructing soak pit 2 m x 2 m x 2 m size with honey comb brick work on the sides upto a height of 1.0m and brick masonry in CM 1:6 for the balance height, providing and filling brick bats graded, upto a height of 1.2 m, providing and laying precast slab over the pit supporting on the brick work, including cost and conveyance of all materials, labour charges, lead, lift, etc. complete as directed by the Engineer-in-charge.	no	2.00	22375.89	Rupees Twenty Two Thousand Three Hundred Seventy Five And Paise Eighty Nine Only	44752
10.15	Providing and fixing PVC vent cowl to pipe already fixed,including cost and conveyance of all materials,labour charges lead,lifetc complete as directed by Engineer-in-charge.					
10.15.01	75 mm dia	no	4.00	34.27	Rupees Thirty Four And Paise Twenty Seven Only	137
10.15.02	110 mm dia	no	5.00	59.40	Rupees Fifty Nine And Paise Forty Only	297
<b>Sub Total</b>						<b>724263</b>

#### 11.00 MISCELLANEOUS WORKS

Tenderer

SI No.	Description	Unit	Quantity	Rate(In figures)	Rate(In words)	Amount(Rs)
11.01	Providing and applying acrylic reinforced cementitious waterproof coating Masterseal 550 EL, in two coats to achieve 1mm thickness. Concrete surfaces should be free of dust, oil and other contaminants. All high spots should be removed. Moss and lichen must be removed physically. After treatment wash down thoroughly with clean water and allow to dry. Prewetting the surface before applying the water proofing material. The rate shall including cost and conveyance of all materials, all labour charges, all taxes, lead, lift, sundries, etc., etc complete as directed by the Engineer - in - charge	sqm	125.00	471.50	Rupees Four Hundred Seventy One And	58938
<b>Sub Total</b>						<b>58938</b>
<b>12.00</b>	<b>DISMANTLING AND DEMOLISHING</b>					
12.01	Dismantling,clearing away and carefully stacking materials useful for reuse any thickness of walls of brick,laterite or rubble in cement mortar including disposal of debris within a distance of 150m as directed by the Engineer in charge	cum	5.00	507.84	Rupees Five Hundred Seven And Paise	2539
<b>Sub Total</b>						<b>2539</b>
<b>Grand Total</b>						<b>53790733</b>

**KITCO LTD**  
**NATIONAL GAMES SECRETARIAT**  
**Construction of Areakode Stadium Complex at Malappuram District**  
**PART C FIRE HYDRANT AND ALARM SYSTEM**  
**SCHEDULE OF QUANTITIES**

Sl. No	Item	Unit	Qty	Rate (Rs) in figures	Rate (Rs) in words	Amount (Rs)
<b>1.0</b>	<b>FIRE PROTECTION SYSTEM</b>					
1.1	Supply installation Testing and commissioning of Conventional type <b>Manual Call Point</b> ;Resettable type via Special Key Interconnecting to loop cable as required.	no	4	508.00	Rupees Five Hundred Eight Only	2032.00
1.2	Providing, installing, testing and commissioning of conventional type <b>Hooter</b> with a minimum sound level of 80DB at 10 Ft Distance,interconnecting to loop cable complete as required.	no	4	551.00	Rupees Five Hundred Fifty One Only	2204.00
1.3	Supply and laying of 2x 1.5sq.mm Armoured copper <b>FRLS cable</b> ISI marked with proper clamping, supports and terminations.	m	40	150.00	Rupees One Hundred Fifty Only	6000.00
1.4	Supply, Installation, Testing & Commissioning of <b>Conventional Type 2 zone manual operated Fire Alarm Panel</b> including battery backup. The panel shall be microprocessor based with its own micro controller, memory, communication module etc.The panel shall have Keypad operation, L C D unit to indicate Fire / Fault Signal of individual unit, etc complete in all respects. 24 Volts sealed lead acid battery sufficient for 24 hrs back up with battery charger.	no	1	11601.00	Rupees Eleven Thousand Six Hundred One Only	11601.00
1.5	Supply, installation, testing and commissioning of <b>gun metal fire hydrant valve</b> , single head oblique type 63 mm instantaneous outlets with female socket for hose connection and inlet side with flange suitable for 80 mm pipe flange, valve conforming to 1S:5290 complete with blank cap chain, etc	no	4	8338.00	Rupees Eight Thousand Three Hundred Thirty Eight Only	33352.00

Sl. No	Item	Unit	Qty	Rate (Rs) in figures	Rate (Rs) in words	Amount (Rs)
1.6	Supplying and fixing <b>First-aid Hose Reel</b> with MS construction spray painted in Post office Red, conforming to IS 884 with up to date amendments, complete with the following as required.  (a) 30 m. long 20 mm (nominal internal dia water hose Thermoplastic (Textile reinforced) Type-2 as per IS: 12585  (b) 20 mm (nominal internal ) dia gun metal globe valve & nozzle.  (c) Drum and brackets for fixing the equipments on wall.  (d) Connections from riser with 40 mm dia stop valve (gun metal) & M.S. Pipe	set	4	8991.00	Rupees Eight Thousand Nine Hundred Ninety One Only	35964.00
1.7	Supplying and fixing 63 mm dia, 15 mtr. Long <b>RRL hose pipe</b> with 63 mm dia Male and Female Gun metal couplings duly binded with GI wire, rivets etc. conforming to IS 636 (type-A) as required.	no	8	5547.00	Rupees Five Thousand Five Hundred Forty Seven Only	44376.00
1.8	Supplying & fixing 63 mm dia <b>Gun metal branch pipe</b> with 20 mm (nominal internal diameter) size Gun Metal nozzle conforming to IS 903, suitable for instantaneous connection to inter-connect hose pipe couplina as required.	no	4	2555.00	Rupees Two Thousand Five Hundred Fifty Five Only	10220.00
1.9	Supply, installation, testing and commissioning of <b>hose boxes</b> wall/pedestal type of size 750 x 250 x 600 mm made out of 16 SWG MS sheet steel with front side glass, locking arrangement and painted with approved colour completed as required and as per specifications.	no	4	4568.00	Rupees Four Thousand Five Hundred Sixty Eight Only	18272.00
1.10	Supplying and fixing 3 way <b>fire brigade connection</b> of cast iron body with 3 Nos. Gun metal male instantaneous inlet couplings complete with cap and chain as required for 100mm dia MS pipe connection, conforming to IS 903 as required	no	1	9,861.00	Rupees Nine Thousand Eight Hundred Sixty One Only	9861.00
1.11	Supply, and fixing of <b>Air release valve</b> in all riser pipes as per specification	set	1	1450.00	Rupees One Thousand Four Hundred Fifty Only	1450.00



Sl. No	Item	Unit	Qty	Rate (Rs) in figures	Rate (Rs) in words	Amount (Rs)
1.12	Providing, laying, testing & commissioning of 'C' class heavy duty <b>MS pipe</b> conforming to IS 3589 and 1239 including drop forged fittings like elbows, tees flanges, tapers, nuts bolts, gaskets etc., fixing the pipe on the wall/ceiling with suitable clamps and painting with primer and two or more coats of synthetic enamel paint of required shade complete as required.					
a)	100 mm dia	m	20	1232.00	Rupees One Thousand Two Hundred Thirty Two Only	24640.00
b)	80 mm dia	m	36	865.00	Rupees Eight Hundred Sixty Five Only	31140.00
c)	40 mm dia (for drain)	m	15	411.00	Rupees Four Hundred Eleven Only	6165.00
1.13	<b>MS. (Heavy C' Class) Pipes</b> complete with painting, wrapping and coating of the pipes as per IS:10211 in all kinds of soil at a depth 1.5 m including excavation,supporting the pipe with PCC blocks of size as mentioned in technical specifications and refilling the trench all complete. <b>(For external only)</b>					
a)	100 mm dia	m	10	1,607.00	Rupees One Thousand Six Hundred Seven Only	16070.00
1.14	a) Supplying, Installation, testing and commissioning of electric driven pump ( <b>terrace pump</b> ) set suitable for automatic operation and consisting electrical control panel with DOL starter and accessories of the following complete in all respect as required Horizontal type, centrifugal pump (Monoblock Type)of cast iron body and stainless steel/bronze impeller with stainless steel shaft, mechanical seal conforming to IS : 1520 Pump rated for 900lpm,30m head C.I body volute type coupled with suitable HP SQ cage induction motor,synchronous speed 2900rpm, suitable for operation on 415V, 3phase 50Hz, AC with IP 55 class of protection for enclosure, horizontal foot mounted type with class F insulation. M.S. fabricated common base plate, coupling, coupling guard, foundation bolts etc. as required. Suitable cement concrete foundation duly plastered with anti vibration pads.					
		set	1	67254.00	Rupees Sixty Seven Thousand Two Hundred Fifty Four Only	67254.00

Sl. No	Item	Unit	Qty	Rate (Rs) in figures	Rate (Rs) in words	Amount (Rs)
1.15	Supply, installation, testing and commissioning of wafer type <b>Butterfly valves</b> conforming to IS 3095 of PN 16 rating manufactured of Cast iron body,SG Iron seat,ISI marked complete as required of the following dia.					
a)	100 mm	no	3	2,652.00	Rupees Two Thousand Six Hundred Fifty Two Only	7956.00
b)	40 mm	no	1	1,631.00	Rupees One Thousand Six Hundred Thirty One Only	1631.00
1.16	Providing, installation, testing and commissioning of wafer type <b>dual plate non-return valve</b> of following sizes confirming to IS : 5312 complete with rubber gasket, GI bolts, nuts, washers etc. as required.					
a)	100 mm	no	1	5,395.00	Rupees Five Thousand Three Hundred Ninety Five Only	5395.00
1.17	Supply, installation, testing and commissioning of <b>pressure gauge</b> 0-200 PSI ( 0 - 14 Kg ) range, 3/8" BSP bottom entry, 4" dial weather proof with stainless steel internals, siphon tube and ball valve including fittings, etc. complete as required.	no	1	2,030.00	Rupees Two Thousand Thirty Only	2030.00
1.18	Supply, installation, testing and commissioning of industrial type <b>pressure switch</b> having 1/4" BSP (F) connection IP:32 enclosure protection, phosphor bronze bellows as sensing element, SDPT contact system, switch rating 6A Inductive/IOA resistive 380 V AC, 0.2A Inductive/10A resistive 250V DC suit with ball valve etc. complete as required.	no	1	2,320.00	Rupees Two Thousand Three Hundred Twenty Only	2320.00
<b>PORTABLE FIRE EXTINGUISHERS</b>						
1.19	Supply and installation of ABC Dry Chemical powder type 6 Kg capacity each made of high pressure steel cylinder wall mounting type with hook plate and anchor fastening, ISI marked, complete with wheel type valve internal discharge tube 1 M long high pressure wire braided discharge hose discharge horn, having a jet length of 8m with discharge time of 10 sec fully charged with ABC powder, including all accessories conforming to IS 2171	no	8	3807.00	Rupees Three Thousand Eight Hundred Seven Only	30456.00

Sl. No	Item	Unit	Qty	Rate (Rs) in figures	Rate (Rs) in words	Amount (Rs)
1.20	Supply of carbon-dioxide extinguisher of ISI marked 4.5 Kg capacity made of high pressure seamless steel cylinder (CCE marked ) complete with wheel type valve with one meter long braided high pressure discharge hose complete in all respects including initial fill with CO <sub>2</sub> gas.	no	8	9690.00	Rupees Nine Thousand Six Hundred Ninety Only	77520.00
<b>GRAND TOTAL FOR FIRE PROTECTION SYSTEM</b>						<b>447909.00</b>

KITCO LTD

NATIONAL GAMES SECRETARIAT

Construction of Areakode Stadium Complex at Malappuram District

PART B ELECTRIFICATION

SPECIFICATION AND SCHEDULE OF QUANTITIES

Item. No.	Description of Items	Unit	Qty	Rate(Rs) in figures	Rate (Rs) in words	Amount (Rs)
<b>PART A</b>						
1.0	<b>LT PANEL BOARD AND ACCESSORIES</b>					
1.1	<b>KSEB METERING PANEL</b>					
	Supply, installation, testing and commissioning of pedestal mounted type outdoor (IP65) metering panel , suitable for accomodating three phase TOD meter along with 3 nos. of 120/5A , class 0.5 resin cast CT as per the requirements of KSEB and consisting of 3 nos. of 125A cutouts with HRC fuses, neutral link, 4Pole 125A MCB isolator in seperate chamber, inter connections and to be fabricated out of 16 SWG MS sheet with locable door having glass window, sealing facility for KSEB, powder coated finish and all mounting accessories as required complete with fixing including civil work.The rate shall be inclusive of supply and installartion of Fuse units and MCB isolators.(including the cost of TOD meter)	no	1.00	41479.00	Rupees Forty One Thousand Four Hundred Seventy Nine Only	41479.00
1.2	<b>MSB</b>					
	Supply, installation, testing and commissioning of totally enclosed free standing floor mounting dust and vermin proof indoor cubicle type Main Switch Board (MSB) suitable for 415 V, 3 phase, 50 HZ supply, fabricated of 14 SWG CRCA sheet steel Powder coated complete with busbars having 125A rating, indicating lamps (LED type) with 2A control MCBs, CT's, connections & interconnections with suitable size of copper leads/solid aluminium strips/rod and having following incoming and outgoing MCCBs as per the drawing and specifications(Refer particular specification and Drawing).					

Item. No.	Description of Items	Unit	Qty	Rate(Rs) in figures	Rate (Rs) in words	Amount (Rs)
	<b>Incomer</b> 125A, FP, 35kA, thermomagnetic release MCCB having adjustable over load , short circuit and earth fault release - 1 no. 125A TPN busbar chamber with Aluminium busbar RYB Indicating lamps LED type -3Nos. Voltmeter (0-500V) - 1no. Voltmeter selector switch -1 No. Ammeter( 0-1200) A- 3Nos (240 deflection)					
	<b>Outgoing</b> 63 A TPN SDFU ith HRC fuse- 5 nos 32 A TPN SDFU ith HRC fuse- 4 nos	no	1.00	106920.00	Rupees One Lakh(s) Six Thousand Nine Hundred Twenty Only	106920.00
1.3	<b>CAPACITOR PANEL</b>  Supply, Installation, testing and commissioning of totally enclosed, free standing, floor mounting, dust and vermin proof, cubicle type capacitor panel board of total <b>20 KVAR</b> capacity to be fabricated out of 14 guage CRCA sheet steel Powder coated with provision for capacitor mounted inside the panel with adequate number of louvers and powder coated with approved shade and having following specific components(refer particular specification)  <b>Incomer</b> 63A TPN Isolator -1 No. 63A TPN busbar chamber with Aluminium busbars RYB Indicating lamps LED type - 3 Nos. Digital Voltmeter - 1 set Digital Ammeter - 1 set ON-OFF indication lamps (LED type)- 1 Set Microprocessor based intelligent,6 step IPFC relay with PF display - 1 No. <b>Out goings</b> 25A, 16 kA, 3P, MCCB with adjustable over load 0.8In to 1 In -5 Nos. 5 kVAr capacitor duty contactor(AC6B) with illuminated ON- OFF push buttons (LED type)- 4 Nos 5kVAr,440 V,50 Hz heavy duty dry type capacitor(MPP-H) with 7% series reactor - 45 Nos					
		no	1.00	172437.00	Rupees One Lakh(s) Seventy Two Thousand Four Hundred Thirty Seven Only	172437.00
	<b>SUB TOTAL PART - A</b>					<b>320836.00</b>
	<b>PART B</b>					

Item. No.	Description of Items	Unit	Qty	Rate(Rs) in figures	Rate (Rs) in words	Amount (Rs)
<b>2.0</b>	<b>WIRING AND ACCESSORIES</b>					
	Supply and wiring for following points in surface/recessed mounted rigid medium gauge 20mm PVC conduit with all accessories, using 3 runs of 1.5 sqmm FRLS PVCinsulated stranded copper conductor single core wire for phase, neutral & earth, with modular 6A one way switch, modular front plate, suitable GI box, ceiling rose etc as required. The total distance from the switch box to the point will not exceed 5mtr, incase if length increases above 5 metres, the wiring shall be measured under item 2.4					
2.1	Light point/ exhaust fan point/call bell point/fan point	no	182.00	790.00	Rupees Seven Hundred Ninety Only	143780.00
2.2	Copper plug point wiring - Wiring for power plug with 2x4 sq. mm., PVC insulated, copper conductor, stranded cable (FRLS) along with 1x2.5 sq. mm., PVC insulated, copper conductor, stranded cable for loop earthing as required complete .					
2.2.1	through 25mm dia PVC conduit laid in recess	m	300.00	268.00	Rupees Two Hundred Sixty Eight Only	80400.00
2.2.2	through 25mm dia PVC conduit laid in surface	m	60.00	242.00	Rupees Two Hundred Forty Two Only	14520.00
2.3	<b>Copper circuit wiring</b> - Wiring for circuit with 2x2.5 sq. mm., PVC insulated, copper conductor, stranded cable along with 1x1.5 sq. mm., PVC insulated, copper conductor, stranded cable for loop earthing as required complete					
2.3.1	through 25mm dia PVC conduit laid in recess	m	1140.00	232.00	Rupees Two Hundred Thirty Two Only	264480.00
2.3.2	through 25mm dia PVC conduit laid in surface	m	120.00	206.00	Rupees Two Hundred Six Only	24720.00
2.4	<b>Copper circuit wiring</b> - Wiring for circuit wiring with 2x1.5 sq. mm., PVC insulated, copper conductor, stranded cable (FRLS) along with 1x1.5 sq. mm., PVC insulated, copper conductor, stranded cable for loop earthing as required complete					
2.4.1	through 20mm dia PVC conduit laid in recess	m	1200.00	174.00	Rupees One Hundred Seventy Four Only	208800.00
2.4.2	through 20mm dia PVC conduit laid in surface	m	50.00	147.00	Rupees One Hundred Forty Seven Only	7350.00

Item. No.	Description of Items	Unit	Qty	Rate(Rs) in figures	Rate (Rs) in words	Amount (Rs)
2.5	<b>Group controlled light point with 2.5 sq. mm wire</b> - Wiring for Group controlled light point (from one point to another point) with 2.5 sq. mm PVC insulated, (FRLS) copper conductor cable along with 1x1.5 sq. mm., PVC insulated, copper conductor, stranded cable for loop earthing in surface / recessed PVC conduit. Note:- This item does not include the cost of MCB or 16Amp/ 6Amp one way switches. The total distance from one point to another point will not exceed 5 meters. In case if the total length increases 5 meters, the additional length shall be measured under item 2.3.The distance from DB to 1st point will be measured under item circuit wiring.	no	1.00	1021.00	Rupees One Thousand Twenty One Only	1021.00
2.6	Group controlled light point with 1.5 sq. mm wire - Wiring for Group controlled light point (from one point to another point) with 1.5 sq. mm PVC insulated, (FRLS), copper conductor cable along with 1x1.5 sq. mm., PVC insulated, copper conductor, stranded cable for loop earthing in surface / recessed PVC conduit. Note:- This item does not include the cost of MCB or 16Amp/ 6Amp one way switches. The total distance from one point to another point will not exceed 5meters. In case if the total length increases 5meters, the additional length shall be measured under item 2.4 The distance from DB to 1st point will be measured under item circuit wiring.	no	6.00	777.00	Rupees Seven Hundred Seventy Seven Only	4662.00
2.7	Supply & fixing suitable size GI box with modular front plate and cover on surface or in recess, including providing and fixing 6A modular switch with connection etc as required.	no	41.00	283.00	Rupees Two Hundred Eighty Three Only	11603.00
2.8	Supply & fixing suitable size GI box with modular front plate and cover on surface or in recess, including providing and fixing 2/3 pin combined 6A modular socket outlet with connection etc as required.	no	41.00	325.00	Rupees Three Hundred Twenty Five Only	13325.00
2.9	Supply & fixing suitable size GI box with modular front plate and cover on surface or in recess, including providing & fixing of 16A modular switch with connection etc as required.	no	8.00	321.00	Rupees Three Hundred Twenty One Only	2568.00
2.10	Supply & fixing suitable size GI box with modular front plate and cover on surface or in recess, including providing and fixing of 3pin 16A modular socket outlet with connection etc as required.	no	8.00	379.00	Rupees Three Hundred Seventy Nine Only	3032.00

Item. No.	Description of Items	Unit	Qty	Rate(Rs) in figures	Rate (Rs) in words	Amount (Rs)
2.11	Supply & fixing suitable size GI box with modular front plate and cover on surface or in recess, including providing and fixing 6/16A modular type combined shuttered socket outlet and 16A modular switch with connection etc as required.	no	5.00	509.00	Rupees Five Hundred Nine Only	2545.00
2.12	Supply and installation of blanking plate in the existing modular metal box with all accessories as required complete .	no	5.00	20.00	Rupees Twenty Only	100.00
2.13	Supply and fixing <b>Telephone socket outlet</b> (RJ11) modular type with shutter in suitable size GI box with modular plate & cover in front on surface or in recess with all connection & necessary accessories as required.	no	5.00	284.00	Rupees Two Hundred Eighty Four Only	1420.00
2.14	<b>Copper wiring in existing PVC/MS/GI conduit/ modular furniture -</b> Wiring with following sizes of PVC insulated, copper conductor (FRLS), stranded cable in surface/recessed existing PVC/MS/GI conduit/modular furniture as required complete.					
2.14.1	1.5sqmm 3 runs	m	10.00	78.00	Rupees Seventy Eight Only	780.00
2.14.2	2.5sqmm 3 run	m	20.00	108.00	Rupees One Hundred Eight Only	2160.00
2.14.3	4sqmm 3 run	m	15.00	149.00	Rupees One Hundred Forty Nine Only	2235.00
2.15	Supply and fixing the following sizes of PVC conduit conforming to IS 9537/1983 Part III along with all required accessories including making good the damages etc. as required.					
2.15.1	On surface					
2.15.1.1	20 mm	m	20.00	69.00	Rupees Sixty Nine Only	1380.00
2.15.1.2	25 mm	m	10.00	80.00	Rupees Eighty Only	800.00
2.15.1.3	32 mm	m	10.00	108.00	Rupees One Hundred Eight Only	1080.00
2.15.2	On recess					
2.15.2.1	20 mm	m	20.00	96.00	Rupees Ninety Six Only	1920.00
2.15.2.2	25 mm	m	10.00	107.00	Rupees One Hundred Seven Only	1070.00
2.15.2.3	32 mm	m	15.00	136.00	Rupees One Hundred Thirty Six Only	2040.00



Item. No.	Description of Items	Unit	Qty	Rate(Rs) in figures	Rate (Rs) in words	Amount (Rs)
<b>SUB TOTAL (PART B)</b>						<b>797791.00</b>
<b>PART C</b>						
<b>3.0</b>	<b>MCBs AND MCB DISTRIBUTION BOARDS</b>					
3.1	Supply and installation of sheet steel, phosphatised and painted, dust and vermin proof enclosure of MCB DB including copper/brass bus bar, neutral link, earth bus and DIN rail suitable for fixing MCB/isolator etc. fixed on wall using suitable anchor bolts or fixed in recess including cutting hole on the wall, making good the damages, colour washing etc. as required					
3.1.1	6 way (8+18) - double cover TPN vertical DB with provision for fixing 4P MCB/Isolator/RCCB/RCBO as incomer and SP/TP MCB as outgoing (IP 42/43)	no	2.00	6048.00	Rupees Six Thousand Forty Eight Only	12096.00
3.1.2	4 way (8+2) - double cover TPN vertical DB with provision for fixing 4P MCB/Isolator/RCCB/RCBO as incomer and SP/TP MCB as outgoing (IP 42/43)	no	1.00	4842.00	Rupees Four Thousand Eight Hundred Forty Two Only	4842.00
3.1.3	8 way (8+24) -three phase double cover horizontal (IP 42/43)	no	1.00	3424.00	Rupees Three Thousand Four Hundred Twenty Four Only	3424.00
3.1.4	12way -single phase double cover (IP 42/43)	no	4.00	1612.00	Rupees One Thousand Six Hundred Twelve Only	6448.00
3.1.5	DP enclosure for independent mounting of MCB	no	1.00	228.00	Rupees Two Hundred Twenty Eight Only	228.00
3.2	Supply and fixing of following rating residual current circuit breaker having earth leakage protection <b>(RCBO)</b> as per specification as required					
3.2.1	2 pole 16 amps. (240 Volts), 30mA sensitivity.	no	7.00	2486.00	Rupees Two Thousand Four Hundred Eighty Six Only	17402.00

Item. No.	Description of Items	Unit	Qty	Rate(Rs) in figures	Rate (Rs) in words	Amount (Rs)
3.2.2	4 pole 32 amps. (415 Volts), 100mA sensitivity.	no	1.00	3361.00	Rupees Three Thousand Three Hundred Sixty One Only	3361.00
3.2.3	4 pole 63 amps. (415 Volts), 100mA sensitivity.	no	1.00	4359.00	Rupees Four Thousand Three Hundred Fifty Nine Only	4359.00
3.3	Supply and fixing of following rating, 10 KA, <b>Miniature circuit breakers</b> of the following series as required.					
3.3.1	6A to 32A, SP, B-CURVE	no	25.00	184.00	Rupees One Hundred Eighty Four Only	4600.00
3.3.2	6A to 32A, SP, C-CURVE	no	12.00	202.00	Rupees Two Hundred Two Only	2424.00
3.3.3	6A to 32A, TP, C-CURVE	no	25.00	752.00	Rupees Seven Hundred Fifty Two Only	18800.00
3.3.4	40A,10KA FP,MCB B -Curve	no	1.00	1382.00	Rupees One Thousand Three Hundred Eighty Two Only	1382.00
3.3.5	25A,10KA TP,MCB B -Curve	no	2.00	1024.00	Rupees One Thousand Twenty Four Only	2048.00
3.3.6	32 A DP MCB Isolator	no	1.00	365.00	Rupees Three Hundred Sixty Five Only	365.00
3.3.7	32 A FP MCB Isolator	no	1.00	668.00	Rupees Six Hundred Sixty Eight Only	668.00
3.4	Supply and fixing of SP MCB blanking plate	no	4.00	13.00	Rupees Thirteen Only	52.00
3.5	Supply of cable end boxes for the following types of DB with necessary bolts and nuts etc. as required .					
3.5.1	Suitable for all types of IP 43 vertical DB (Group B)	no	3.00	655.00	Rupees Six Hundred Fifty Five Only	1965.00
3.5.2	Suitable for IP 43, 8way, TPN DB (Group B)	no	1.00	1851.00	Rupees One Thousand Eight Hundred Fifty One	1851.00
3.5.3	Suitable for IP 43, 12 way, SPN DB (Group B)	no	4.00	754.00	Rupees Seven Hundred Fifty Four Only	3016.00
3.5	Fixing cable end boxes for the following types of DB with necessary bolts and nuts etc. as required .					
3.5.1	Suitable for all types of IP 43 vertical DB (Group B)	no	3.00	98.00	Rupees Ninety Eight Only	294.00

Item. No.	Description of Items	Unit	Qty	Rate(Rs) in figures	Rate (Rs) in words	Amount (Rs)
3.5.2	Suitable for IP 43, 8way, TPN DB (Group B)	no	1.00	98.00	Rupees Ninety Eight Only	98.00
3.5.3	Suitable for IP 43, 12 way, SPN DB (Group B)	no	4.00	98.00	Rupees Ninety Eight Only	392.00
<b>SUB TOTAL (PART C)</b>						<b>90115.00</b>
<b>PART D</b>						
<b>4.0</b>	<b>LIGHT FIXTURES AND FANS</b>					
4.1	Supply of 1x28W surface mounted decorative fluorescent lamp fixture with T5 electronic batten, including 28W T5 lamp,prewired complete with all necessary accessories as required (Sample shall be approved by the Engineer- in-Charge)	no	57.00	630.00	Rupees Six Hundred Thirty Only	35910.00
4.2	Supply of 1x14W surface mounted decorative fluorescent lamp fixture with T5 electronic batten, including 14W T5 lamp,prewired complete with all necessary accessories as required (Sample shall be approved by the Engineer- in-Charge)	no	12.00	540.00	Rupees Five Hundred Forty Only	6480.00
4.3	Supply of 2x18 W, recess mounted low depth downlighter, including supply of 2 no.s of 18 W compact fluorescent lamps, 6W/5.5W loss copper ballast, starter, capacitor prewired complete with all necessary accessories as required (Sample shall be approved by the engineer in charge)	no	12.00	2252.00	Rupees Two Thousand Two Hundred Fifty Two Only	27024.00
4.4	Supply of Decorative reading lamp with Flicker-free Start with an Electronic Ballast, 80% Energy Saving, Ergonomic Eye Care Desk Light, 2D Flexibility along with 1x11w cfl lamp.(The sample should be approved by engineer incharge)	no	2.00	1270.00	Rupees One Thousand Two Hundred Seventy Only	2540.00
4.5	Supply of 2x28W, industrial type surface /suspension mounting type luminaire suitable for T5 lamps, low loss copper ballast, PF capacitor, including 2 Nos of 28W T5 lamp, prewired complete with all necessary accessories as required (the sample must be approved by engineer in charge)	no	10.00	2280.00	Rupees Two Thousand Two Hundred Eighty Only	22800.00
4.6	Supply of 2x36W recess mounted,mirror optic luminaire with CRCA powder coated housing , preanodised aluminum reflector and paralite P5 louvres with high frequency electronic ballast. including 2 nos of 36W CFL lamp, prewired complete with all necessary accessories as required. (Sample shall be approved by the engineer in charge)	no	6.00	3310.00	Rupees Three Thousand Three Hundred Ten Only	19860.00

Item. No.	Description of Items	Unit	Qty	Rate(Rs) in figures	Rate (Rs) in words	Amount (Rs)
4.7	Supply of decorative wall bracket with glass body, 11W lamp with all accessories as required complete.(Sample shall be approved by the engineer in charge)	no	10.00	1180.00	Rupees One Thousand One Hundred Eighty Only	11800.00
4.8	Supply of 1X9W, weather proof bulkhead luminaire for CFL fixtures with zinc plated wire guard and prismatic glass cover , low loss Copper ballast, prewired complete with all necessary accessories as required. Including 1 No. of 9 W compact fluorescent lamp. ( Sample shall be approved by the engineer in charge)	no	2.00	1,470.00	Rupees One Thousand Four Hundred Seventy Only	2940.00
4.9	Supply, conveyance, installation, testing and commissioning of the following sizes of exhaust fans in the existing opening, fixing necessary bolt and nuts, making good the damages etc. as required including giving connections with required length of 24/0.20mm PVC insulated and PVC sheathed 3 core round copper conductor flex wire conforming to relevant ISS					
	250mm, single phase, light duty exhaust fan in plastic body with self opening louvers	no	16.00	1620.00	Rupees One Thousand Six Hundred Twenty Only	25920.00
4.10	Supply,conveyance,installation,testing and commissioning of wall mounting fan of the following sizes using mounting brackets supplied along with the fan and giving connection with existing wire.					
	400mm sweep	no	1.00	1862.00	Rupees One Thousand Eight Hundred Sixty Two Only	1862.00
4.11	Supply ,conveyance,installation,testing and commissioning of ceiling fan using standard accessories excluding speed regulators suitable for 230 V/240 V 50 HZ, AC supply wiring the down rod with 16/0.20mm PVC insulated and PVC sheathed 650/1100 v grade 3 core round copper conductor flex wire or with extended original wiring etc. as required confirms to IS 374/1979 as required complete					
	1200mm sweep	no	18.00	1758.00	Rupees One Thousand Seven Hundred Fifty Eight Only	31644.00
4.12	Supply of pedestal fan having speed control, oscillation control and suitable for operation on single phase 230 volt, 50Hz AC supply complete with continuous duty motor, chrome plated front and rear guards and all accessories as required complete.	no	1.00	2458.00	Rupees Two Thousand Four Hundred Fifty Eight Only	2458.00

Item. No.	Description of Items	Unit	Qty	Rate(Rs) in figures	Rate (Rs) in words	Amount (Rs)
4.13	Charges for cutting holes suitable for accommodating exhaust fans of sizes upto 305mm sweep including plastering , colour washing etc. as required.	no	16.00	216.00	Rupees Two Hundred Sixteen Only	3456.00
4.14	Supply and providing every additional length of down rod of suitable size heavy guage GI/WI pipe with 16/0.20mm PVC insulated and PVC sheathed 3 core round copper conductor flex wire conforming in relevant ISS or with original wiring extended including painting as required. (for extending the length of down rod for ceiling fan)	no	9.00	100.00	Rupees One Hundred Only	900.00
4.15	Installation, testing and commissioning of prewired flourescent fitting of all types complete with all accessories and fluorescent lamps of all types directly on wall and giving connections with 16/0.20 mm 3 core PVC insulated and sheathed round copper conductor flex wire or extending the original wiring and giving connections as required.	no	91.00	102.00	Rupees One Hundred Two Only	9282.00
4.16	Installation, testing and commissioning of pre-wired fluorescent fittings of all types complete with all accessories and fluorescent lamps etc. including supplying and fixing ball and socket arrangemetns on T.W round block, suspension down rod of 19mm dia MS conduit upto 2x30cm length including painting and wiring the down rod with 16/0.20mm 3 core round copper conductor flex wire conforming to relevant ISS or extending the original wiring and giving connections etc.	no	2.00	268.00	Rupees Two Hundred Sixty Eight Only	536.00
4.17	Installation, testing & commissioning of prewired, fluorescent / CFL light fittings of all types, with chain mounted complete with all accessories and tubes etc recess mounted to false ceiling,including connection with 1.5sqmm PVC insulated copper conductor single / three core cable etc as required.	no	18.00	139.00	Rupees One Hundred Thirty Nine Only	2502.00
4.18	Supplying and providing extra H.G conduit down rod of 19mm dia 2x1.00m long with 16/0.20 mm 3 core copper conductor flex wire conforming to relevant ISS or with the extended original wiring and giving connection etc. as required.	no	4.00	195.00	Rupees One Hundred Ninety Five Only	780.00
4.19	Supply and fixing of 2 module type, 5 speed electronic fan regulator 120watts rating with non metallic front plate including providing and fixing suitable size metal box in surface/ recess with all necessary accessories as required.	no	18.00	580.00	Rupees Five Hundred Eighty Only	10440.00

Item. No.	Description of Items	Unit	Qty	Rate(Rs) in figures	Rate (Rs) in words	Amount (Rs)
4.20	Supply and fixing of DOL starter suitable for 0.5 HP to 5 HP motor without SPP in a suitable enclosure & giving all other necessary connections as required	no	5.00	4661.00	Rupees Four Thousand Six Hundred Sixty One Only	23305.00
4.21	Numbering of ceiling fan / exhaust fan/ fluorescent fitting as required.	no	147.00	23.00	Rupees Twenty Three Only	3381.00
<b>SUB TOTAL (PART D)</b>						<b>245820.00</b>
<b>PART E</b>						
<b>5.0 CABLES AND CABLING</b>						
5.1	Supply of following size 1.1 KV grade XLPE insulated, PVC sheathed, armoured Aluminium /copper conductor cable conforming to IS 7098 (Part 1) amended upto date.					
5.1.1	3.5C 120 Sq.mm Al	m	250.00	687.00	Rupees Six Hundred Eighty Seven Only	171750.00
5.1.2	4C 25 Sq.mm Al	m	30.00	229.00	Rupees Two Hundred Twenty Nine Only	6870.00
5.1.3	4C 16 Sq.mm Al	m	150.00	176.00	Rupees One Hundred Seventy Six Only	26400.00
5.1.4	4C 6 Sq.mm Al	m	600.00	137.00	Rupees One Hundred Thirty Seven Only	82200.00
5.1.4	2C 10 Sq.mm Al	m	130.00	115.00	Rupees One Hundred Fifteen Only	14950.00
5.1.5	2C 6 Sq.mm Al	m	10.00	107.00	Rupees One Hundred Seven Only	1070.00
5.1.6	3C 10 Sq.mm Al	m	25.00	134.00	Rupees One Hundred Thirty Four Only	3350.00
5.1.7	3C 4 Sq.mm Al	m	144.00	95.00	Rupees Ninety Five Only	13680.00
5.1.8	3C 2.5 sqmm Cu	m	20.00	164.00	Rupees One Hundred Sixty Four Only	3280.00
5.2	Supplying and making end termination with brass compression gland and aluminium/Copper lugs for following size of XLPE insulated PVC sheathed aluminium conductor cable of 1.1 kV grade as required.					
5.2.1	3.5C 120 Sq.mm Al	no	2.00	538.00	Rupees Five Hundred Thirty Eight Only	1076.00
5.2.2	4C 25 Sq.mm Al	no	2.00	222.00	Rupees Two Hundred Twenty Two Only	444.00
5.2.3	4C 16 Sq.mm Al	no	8.00	199.00	Rupees One Hundred Ninety Nine Only	1592.00
5.2.4	4C 6 Sq.mm Al	no	36.00	153.00	Rupees One Hundred Fifty Three Only	5508.00
5.2.5	2C 10 Sq.mm Al	no	8.00	145.00	Rupees One Hundred Forty Five Only	1160.00

Item. No.	Description of Items	Unit	Qty	Rate(Rs) in figures	Rate (Rs) in words	Amount (Rs)
5.2.6	2C 6 Sq.mm Al	no	2.00	134.00	Rupees One Hundred Thirty Four Only	268.00
5.2.7	3C 10 Sq.mm Al	no	2.00	155.00	Rupees One Hundred Fifty Five Only	310.00
5.2.8	3C 4 Sq.mm Al	no	10.00	135.00	Rupees One Hundred Thirty Five Only	1350.00
5.2.9	3C 2.5 sqmm Cu	no	2.00	131.00	Rupees One Hundred Thirty One Only	262.00
5.3	Laying and clamping of 1no. PVC insulated and PVC sheathed armoured power cable, 1.1KV grade of the following sizes using clamps noted along with the cables, spacing of clamps not exceeding 60cms, making good the damages colour washing etc. as required					
5.3.1	2 core cable of size exceeding 4 sq.mm but not exceeding 16 sq.mm with company fabricated saddles.	m	20.00	45.00	Rupees Forty Five Only	900.00
5.3.2	3 core cable of size not exceeding 4 sq.mm with company fabricated saddles.	m	80.00	41.00	Rupees Forty One Only	3280.00
5.3.3	3 core cable of size exceeding 4 sq.mm but not exceeding 16 sq.mm with company fabricated saddles.	m	20.00	45.00	Rupees Forty Five Only	900.00
5.3.4	4 core cable of size exceeding 6 sq.mm but not exceeding 25 sq.mm with company fabricated saddles.	m	20.00	54.00	Rupees Fifty Four Only	1080.00
5.3.5	3.5 core cable of size exceeding 95 sq.mm but not exceeding 120 sq.mm with clamps fabriated from 25X3 mm MS flat	m	10.00	73.00	Rupees Seventy Three Only	730.00
5.4	Laying of one number PVC insulated and PVC sheathed armoured power cable of 1.1kV grade fo the following sizes in ground including excavation of trench of size 35x75cm, sand cushioning up to a height of 25cm (8cm+17cm), providing protective covering with country burnt bricks laid breadth wise. refilling the trench etc. as required					
5.4.1	Cable size not exceeding 25Sq mm	m	819.00	323.00	Rupees Three Hundred Twenty Three Only	264537.00
5.4.2	Above 25 Sq.mm upto 120 Sq.mm	m	220.00	336.00	Rupees Three Hundred Thirty Six Only	73920.00

Item. No.	Description of Items	Unit	Qty	Rate(Rs) in figures	Rate (Rs) in words	Amount (Rs)
5.5	Laying of one number additional PVC insulated and PVC sheathed armoured power cable of 1.1KV grade of the following sizes in ground in the same trench in one tier horizontal formation including widening the trench by 20 cm,sand cushioning up to the height of 25 cm,providing protective covering with country burnt bricks laid breadth wise, refilling the trench etc. as required Upto 25 Sq.mm	m	65.00	197.00	Rupees One Hundred Ninety Seven Only	12805.00
5.6	Laying of one number PVC insulated and PVC sheathed armoured power cable of 1.1KV grade fo the following sizes in the existing RCC/HUME/STONEWARE/GI/DWC pipe as required					
5.6.1	Upto 25 sq.mm	m	3.00	32.00	Rupees Thirty Two Only	96.00
5.6.2	Above 25 Sq.mm upto 400 Sq.mm	m	10.00	45.00	Rupees Forty Five Only	450.00
5.7	Laying of one number PVC insualted and PVC sheathed armoured power cable of 1.1KV grade of the following sizes in the existing masonry open duct as required.					
5.7.1	Upto 25 Sq.mm	m	80.00	26.00	Rupees Twenty Six Only	2080.00
5.7.2	Above 25 Sq.mm upto 400 Sq.mm	m	10.00	35.00	Rupees Thirty Five Only	350.00
5.8	Supplying and installation including all manner of supports/suspenders, anchor bolts etc. for cable trays made out of sutiabel size channel sections, slotted angles, flats, MS plates etc. as required including painting with 2 coats of synthetic enamel paint over a coat of zinc chromate primer, making good the damages colour washing etc. as required	kg	50.00	96.00	Rupees Ninety Six Only	4800.00
5.9	Supplying and installation of supports, anchor bolts etc. made out of suitable size single section MS angle, flats etc. as required including painting with 2 coats of svnthetic enamel paint.	kg	50.00	67.00	Rupees Sixty Seven Only	3350.00
5.10	Supplying and installation of supports, anchor bolts etc made out of suitable size single section channel etc. as required including painting with 2 coats of synthetic enamel paint.	kg	50.00	67.00	Rupees Sixty Seven Only	3350.00
5.11	Supplying, threading, laying and jointing of the following sizes of 'B' class GI pipe with all required accessories in ground in the existing trench as protective covering to earth leads.					



Item. No.	Description of Items	Unit	Qty	Rate(Rs) in figures	Rate (Rs) in words	Amount (Rs)
5.11.1	40 mm	m	40.00	193.00	Rupees One Hundred Ninety Three Only	7720.00
5.11.2	50 mm	m	10.00	272.00	Rupees Two Hundred Seventy Two Only	2720.00
5.11.3	75 mm	m	5.00	444.00	Rupees Four Hundred Forty Four Only	2220.00
5.12	Supply and clamping the following sizes of 'B' class GI pipe on wall with all required accessories & clamps etc. including cutting and making good the walls, painting the exposed portions etc., as protective covering to earth leads/ cables.					
5.12.1	40 mm	m	50.00	221.00	Rupees Two Hundred Twenty One Only	11050.00
5.12.2	50 mm	m	50.00	301.00	Rupees Three Hundred One Only	15050.00
5.12.3	75 mm	m	5.00	473.00	Rupees Four Hundred Seventy Three Only	2365.00
<b>SUB TOTAL (PART E)</b>						<b>749273.00</b>
<b>PART F</b>						
<b>6.0 EARTHING AND SAFETY EQUIPMENTS</b>						
6.1	Supply and providing pipe earthing as per IS 3043 with 3.60m long 40mm dia B class GI pipe, GI funnel with weld mesh, filling required quantity of charcoal & salt including construction of inspection chamber with a bed concrete of 1:4:8 PCC using 40mm broken stone (10cm thick), brick work in cement mortar 1:6, plastering the surface of brick masonry and the exposed surface of PCC bed with cement mortar 1:4, 12mm thick, (the finished inside dimension shall be 300x300x300mm) but excluding test joint, earth continuity conductor to the plate, and covering at the top	set	6.00	2482.00	Rupees Two Thousand Four Hundred Eighty Two Only	14892.00
6.2	Supply and providing the following sizes of cast iron gully trap with converting at the top to the inspection chamber of earth pit as required. 300x300x6mm cast iron gully trap with covering	no	6.00	268.00	Rupees Two Hundred Sixty Eight Only	1608.00
6.3	Supply and laying strips of the following sizes along with wiring/cables and giving connection as required. 25x3 mm copper strip tinned at the points of contacts	m	20.00	447.00	Rupees Four Hundred Forty Seven Only	8940.00

Item. No.	Description of Items	Unit	Qty	Rate(Rs) in figures	Rate (Rs) in words	Amount (Rs)
6.4	Supply and laying the following sizes of strips laid 0.60m below ground level including excavating trench of suitable size and refilling etc. as required ( in ordinary soil) 25x3 mm copper strip tinned at the points of contacts	m	30.00	464.00	Rupees Four Hundred Sixty Four Only	13920.00
6.5	Supply and drawing bare earthing conductors of the following sizes along with wiring/cables and giving connection as required.					
6.5.1	3.15mm copper conductor (10 SWG)	m	280.00	56.00	Rupees Fifty Six Only	15680.00
6.5.2	4.00 mm GI conductor (8 SWG)	m	555.00	21.00	Rupees Twenty One Only	11655.00
6.6	Supply and laying bare earthing conductors of the following sizes laid 0.6m below ground level including excavating trench of suitable size and refilling etc. as required ( in ordinary soil)					
6.6.1	3.15mm coper conductor (10 SWG)	m	40.00	67.00	Rupees Sixty Seven Only	2680.00
6.6.2	4.00 mm GI conductor (8 SWG)	m	45.00	30.00	Rupees Thirty Only	1350.00
6.8	Supply and providing 6mm thick & 1m wide electrical grade chequered type rubber mat to withstand 3.3KV dielectric strength conforming to IS 5429/1969.	job	1.00	1224.00	Rupees One Thousand Two Hundred Twenty Four Only	1224.00
6.9	Supply and fixing of First aid box	no	1.00	589.00	Rupees Five Hundred Eighty Nine Only	589.00
6.10	Supplying of Rubber hand gloves suitable for 1.1 KV.	pair	1.00	360.00	Rupees Three Hundred Sixty Only	360.00
<b>SUB TOTAL (PART F)</b>						<b>72898.00</b>
<b>PART G</b>						
<b>7.0 EXTERNAL LIGHTING</b>						
7.1	Supply of decoraive post top lantern with clear acrylic cover suitable for 18W CFL lamp prewired complete, including 2 numbers 18W compact flourescent lamps and concealed wiring to the light fixture, mounting accessories , interconnections, plastering, grouting, finishing etc as required on brick pillars/columns of compound wall. (For Gate lighting)	no	6.00	7522.00	Rupees Seven Thousand Five Hundred Twenty Two Only	45132.00

Item. No.	Description of Items	Unit	Qty	Rate(Rs) in figures	Rate (Rs) in words	Amount (Rs)
7.1	Installation,testing and commissioning of decoraive post top lantern with clear acrylic cover suitable for 18W CFL lamp prewired complete, including 2 numbers18W compact flourescent lamps and concealed wiring to the light fixture, mounting accessories , interconnections, plastering, grouting, finishing etc as required on brick pillars/columns of compound wall. (For Gate lighting)	no	6.00	497.00	Rupees Four Hundred Ninety Seven Only	2982.00
7.2	Supply of MS tubular swaged pole (410, SP-12) of total length 8m fabricated with following dia pipes 114.3x5.4 (Bottom), 88.9X4.85(middle), 76.1x3.25(top) with a bottom plate of size 350x350x6mm having necessary gusset plate etc. with (single bracket)swan neck including bending to shape the top pipe section with over hang of 1.5m,erecting the same in cement concrete foundation with a concrete mixture of 1:3:6 circular shape of size 60cm dia and 60 cm above ground level and 1500 mm below ground level with bed size of 0.7x 0.7 x 1.5 m as per specification including excavation, wiring with 3Cx 2.5 sq.mm copper wire from the control box to street light fixture, withsintex / Frp control box with 6 way connectors, 1 no 6A MCB, neutral link and connection to the lamp through the pole, and painting with two coats of primer and two coats of enamel paint as required with					
	supply of 1no street light luminaire suitable for 1x150W HPSV lamp with heat resistant toughened glass cover, copper ballast, electronic ignitor, power factor improvement capacitor, 150W HPSV lamp,as required complete with IP 65 protection. (sample shall be approved by the engineer in charge).	no	12.00	19703.00	Rupees Nineteen Thousand Seven Hundred Three Only	236436.00
7.2	Instalation,Testing and Commissioning of MS tubular swaged pole (410, SP-12) of total length 8m fabricated with following dia pipes 114.3x5.4 (Bottom), 88.9X4.85(middle), 76.1x3.25(top) with a bottom plate of size 350x350x6mm having necessary gusset plate etc. with (single bracket)swan neck including bending to shape the top pipe section with over hang of 1.5m,erecting the same in cement concrete foundation with a concrete mixture of 1:3:6 circular shape of size 60cm dia and 60 cm above ground level and 1500 mm below ground level with bed size of 0.7x 0.7 x 1.5 m as per specification including excavation, wiring with 3Cx 2.5 sq.mm copper wire from the control box to street light fixture, withsintex / Frp control box with 6 way connectors, 1 no 6A MCB, neutral link and connection to the lamp through the pole, and painting with two coats of primer and two coats of enamel paint as required with					

Item. No.	Description of Items	Unit	Qty	Rate(Rs) in figures	Rate (Rs) in words	Amount (Rs)
	Fixing 1no street light luminaire suitable for 1x150W HPSV lamp with heat resistant toughened glass cover, copper ballast, electronic ignitor, power factor improvement capacitor, 150W HPSV lamp,as required complete with IP 65 protection. (sample shall be approved by the engineer in charge).	no	12.00	11397.00	Rupees Eleven Thousand Three Hundred Ninety Seven Only	136764.00
	<b>SUB TOTAL (PART G)</b>					<b>421314.00</b>
	<b>GRAND TOTAL</b>					<b>2698047.00</b>

**NATIONAL GAMES SECRETARIAT  
Construction of Areakode Stadium Complex at Malappuram District**

**ABSTRACT OF COST**

SI.No.	Description	Amount (Rs.)
PART A	CIVIL WORKS	53,790,733
PART B	ELECTRICAL WORKS	2,698,047
PART C	FIRE FIGHTING SYSTEM	447,909
	<b>TOTAL</b>	<b>56,936,689</b>
Total Value of PWD schedule items		53,030,493
Total Value of Market rate items		3,906,196
<b>GRAND TOTAL</b>		<b>56,936,689</b>

**Rupees Five Crore Sixty Nine Lakh Thirty Six Thousand Six Hundred Eighty Nine Only**

I/We agree to carry out the work at par with estimate (1).at estimate rate.....

(2).....% below the estimate (in figure & words)

(3).....% above the estimate (in figure & words) less cost of market rate item

\*\* Tender excess/ Deduction will not be applicable for market rate items in the schedule of contract

Signature of Contractor  
Witness

Name.....

Address.....