

Tender for Appointment of Contractor for CONSTRUCTION OF INDIAN BANK OFFICE BUILDING AT AMARAVATI, ANDHRA PRADESH



TENDER BOQ



A Navratna CPSE

NBCC (INDIA) LIMITED

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Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

Construction of Indian Bank Office Building at Amravati, Andhra Pradesh						
BOQ-SUMMARY SHEET						
S NO	DESCRIPTION	DSR	Total with correction factor 0.973 as per on CPWD dated 08.08.24	INCLUDING COST INDEX @ 5%	NON DSR	TOTAL AMOUNT
		All Figures in Rs.			All Figures in Rs.	All Figures in Rs.
1.00	CIVIL WORKS based on DSR 2023	264,968,699	257,814,544	270,705,272	59,590,086	330,295,358
2.00	PLUMBING WORKS based on DSR 2023	4,419,917	4,300,579	4,515,608	11,049,023	15,564,631
3.00	FURNITURE	0		0	31,958,407	31,958,407
4.00	HORTICULTURE	0		0	1,425,678	1,425,678
	SUB TOTAL (CIVIL+PLUMBING+FURNITURE+HORTICULTURE WORKS)			275,220,879	104,023,194	379,244,074
5.00	ELECTRICAL WORKS based on DSR E&M 2025	19,292,439		0	6,177,660	25,470,099
6.00	HVAC WORKS based on DSR E&M 2025	16,020,013		0	4,244,208	20,264,221
7.00	VENTILATION based on DSR E&M 2025	2,771,390		0	7,000,000	9,771,390
8.00	LIGHTING based on DSR E&M 2025	673,475		0	2,961,282	3,634,757
9.00	FIRE ALARM AND PA SYSTEM based on DSR E&M 2025	6,405,373		0	212,800	6,618,173
10.00	FIREFIGHTING based on DSR E&M 2025	10,419,235		0	968,960	11,388,195
11.00	IT WORKS- ACTIVE AND PASSIVE based on DSR E&M 2025	5,381,951		0	305,300	5,687,251
12.00	IPABX based on DSR E&M 2025	2,607,200		0	0	2,607,200
14.00	CCTV WORKS based on DSR E&M 2025	1,159,008		0	0	1,159,008
15.00	ACCESS CONTROL based on DSR E&M 2025	169,701		0	6,670	176,371
16.00	AV SYSTEM	0		0	7,988,000	7,988,000
17.00	SUBSTATION based on DSR E&M 2025	13,388,937		0	5,421,800	18,810,737
18.00	LIFTS	0		0	10,622,130	10,622,130
19.00	BMS based on DSR E&M 2025	1,324,884		0	1,470,378	2,795,262
20.00	OCCUPANCY SENSORS based on DSR E&M 2025	1,501,244		0	0	1,501,244

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Construction of Indian Bank Office Building at Amravati, Andhra Pradesh						
BOQ-SUMMARY SHEET						
S NO	DESCRIPTION	DSR	Total with correction factor 0.973 as per on CPWD dated 08.08.24	INCLUDING COST INDEX @ 5%	NON DSR	TOTAL AMOUNT
21.00	SOLAR AND EV CHARGER based on DSR E&M 2025	2,714,000		0	0	2,714,000
22.00	STP	0		0	3,970,605	3,970,605
23.00	RO PLANT	0		0	1,795,311	1,795,311
24.00	BOOM BARRIER	0		0	536,000	536,000
25.00	STACK PARKING	0		0	3,100,784	3,100,784
	SUB TOTAL (E&M WORKS)	83,828,850			56,781,888	140,610,738
	TOTAL				519,854,812.00	

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ABSTRACT OF COST				
NAME OF WORK: CONSTRUCTION OF INDIAN BANK OFFICE BUILDING AT AMARVATI, ANDHRA PRADESH				
S No	ITEM OF CIVIL WORK	AMOUNT		
		DSR		NON DSR
		All Figures in Rs.		All Figures in Rs.
1.00	Earth Work	Rs.	11341678	0
2.00	Concrete Work	Rs.	1536720	0
3.00	R.C.C. Work	Rs.	143456428	117630
4.00	Brick Work	Rs.	9255673	0
5.00	Marble Work	Rs.	321753	0
6.00	Wood Work	Rs.	13367693	1280485
7.00	Steel Work	Rs.	1382086	0
8.00	Flooring Work	Rs.	16103660	19907454
9.00	Roofing Work	Rs.	1253305	6986740
10.00	Finishing Work	Rs.	15072743	0
11.00	Aluminium Work	Rs.	480618	6158075
12.00	Structure Glazing	Rs.	24149795	0
13.00	Water Proofing	Rs.	0	8553772
14.00	Pile Work	Rs.	24190167	10194734
15.00	Road Work	Rs.	2460731	0
16.00	Rainwater Harvesting Work	Rs.	595651	0
17.00	Miscellaneous Work	Rs.	0	6391196
Sub Total		Rs.	264968699	59590086
TOTAL		Rs.	324558785	

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SCHEDULE OF QUANTITIES: CIVIL							
NAME OF WORK: CONSTRUCTION OF INDIAN BANK OFFICE BUILDING AT AMARVATI, ANDHRA PRADESH							
S No	DSR 2023 / MR ITEMS	Description of Item	Qty	Unit	Rate	Amount	
						DSR	NON DSR
						All Figures in Rs.	All Figures in Rs.
1.00	2.0	EARTH WORK					
1.01	2.28	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m.					
	2.28.1	All kinds of soil.	1620.00	Sqm	34.15	55323.00	
1.02	2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge.					
	2.6.1	a) All kinds of soil	16518.00	Cum	177.50	2931945.00	
1.03	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	5025.00	Cum	196.00	984900.00	
1.04	1.1.2	Disposal of surplus earth by mechanical transport including loading, unloading for a lead upto 10.00 Km.	11494.00	Cum	148.47	1706491.19	
1.05	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	159.00	Cum	2123.75	337676.25	
1.06	2.34	Supplying chemical emulsion in sealed containers including delivery as specified.					
	2.34.1	Chlorpyriphos/ Lindane emulsifiable concentrate of 20%	626.00	Litre	234.75	146953.50	
1.07	2.35	Diluting and injecting chemical emulsion for POSTCONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :					
	2.35.3	Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the existing floor :					
	2.35.3.1	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	1126.00	Sqm	310.05	349116.30	
1.08	2.26	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.					
	2.26.1	All kinds of soil.	36561.00	Cum	126.80	4635934.80	
1.09	2.25(a)	Excavating, supplying, stacking and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in foundation trenches, plinth, sides of foundation etc. complete for all lift.	276.00	Cum	700.50	193338.00	
Total Earth Work :						11341678.04	0.00

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S No	DSR 2023 / MR ITEMS	Description of Item	Qty	Unit	Rate	Amount	
						DSR	NON DSR
						All Figures in Rs.	All Figures in Rs.
2.00	4.0	CONCRETE WORK					
2.01	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:					
	4.1.8	1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources: 8 graded stone aggregate 40 mm nominal size derived from natural sources)	203.00	Cum	6812.00	1382836.00	
2.02	4.2	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing :					
i)	4.2.3	1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	1.00	Cum	9895.20	9895.20	
ii)	4.2.5	1:3:6 (1 cement : 3 coarse sand (zone-III) derived from natural sources: 6 graded stone aggregate 20 mm nominal size derived from natural sources)	1.00	Cum	9311.40	9311.40	
2.03	4.10	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III): 4 graded stone aggregate 12.5mm nominal size)	42.00	Sqm	410.85	17255.70	
2.04	4.12	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification.	12.00	Per 50 kg cement	18.15	217.80	
2.05	4.13	Providing & applying a coat of residual petroleum bitumen of grade of VG-10 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.	42.00	Sqm	146.15	6138.30	
2.06	4.17	Making plinth protection 50 mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources) over 75 mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	148.00	Sqm	749.30	110896.40	
2.07	4.14	Extra for concrete work in superstructure above floor V level for each four floors or part thereof by mechanical means.	1.00	Cum	169.45	169.45	
Total Cement Concrete work :						1536720.25	0.00

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						DSR	NON DSR
						All Figures in Rs.	All Figures in Rs.
3.00	5.0	R.C.C. WORK					
3.01	5.33	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge, for the following grades of concrete.: Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.					
	5.33.1	All works upto Plinth level					
	5.33.1.2	Concrete of M30 grade with minimum cement content of 350 kg /cum	3440.00	Cum	9655.70	33215608.00	
3.02	5.33.2	All works above plinth level upto floor V level					
	5.33.2.2	Concrete of M30 grade with minimum cement content of 350 kg /cum	1398.00	Cum	10011.35	13995867.30	
3.03	5.38	Extra for R.C.C./ B.M.C/ R.M.C. work above floor V level for each four floors or part thereof.	459.00	Cum	355.65	163243.35	
3.04	MR	Reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete at all level and height					
		CRS TMT bars of grade Fe-550D.	622136.00	Kg	129.00	80255544.00	
3.05	5.9	Centering and shuttering including strutting, propping etc. and removal of form for :					
a)	5.9.1	Foundation, footing, bases of columns etc. for mass concrete	466.00	Sqm	392.15	182741.90	
b)	5.9.3	Suspended floors, roofs, landings, balconies and access platform	5073.00	Sqm	927.25	4703939.25	
c)	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	5110.00	Sqm	736.40	3763004.00	
d)	5.9.19	Weather shade, Chajjas, corbels etc., including edges	314.00	Sqm	951.10	298645.40	
e)	5.9.7	Stairs, (excluding landings) except spiral-staircases	60.00	Sqm	764.95	45897.00	
f)	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	1022.00	Sqm	961.30	982448.60	
g)	5.9.4	Shelves (Cast in situ)	44.00	Sqm	927.25	40799.00	
h)	5.9.15	Small lintels not exceeding 1.5 m clear span, moulding as in cornices, window sills, string courses, bands, copings, bed plates, anchor blocks and the like	81.00	Sqm	392.15	31764.15	
i)	5.9.16	Edges of slabs and breaks in floors and walls					
	5.9.16.1	Under 20 cm wide	1439.00	metre	208.55	300103.45	
j)	5.9.14	Extra for shuttering in circular work (20% of respective centering and shuttering items)	31.00	Sqm	192.26	5960.06	
k)	5.9.2	Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.	4266.00	Sqm	842.50	3594105.00	

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						All Figures in Rs.	All Figures in Rs.
3.06	5.30	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	243.00	metre	78.40	19051.20	
3.07	5.11	Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc., including cost of de-shuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured).					
	5.11.1	Suspended floors, roofs, landings, beams and balconies (Plan area to be measured)	4834.00	Sqm	384.30	1857706.20	
3.08	MR	Core cutting for fire & plumbing					
	i)	50 mm Dia	50.00	Each	858.00		42900.00
	ii)	75 mm Dia	20.00	Each	959.00		19180.00
	iii)	125 mm Dia	10.00	Each	1515.00		15150.00
	iv)	150 mm Dia	10.00	Each	1919.00		19190.00
	v)	200 mm Dia	10.00	Each	2121.00		21210.00
		Total R.C.C. Work :				143456427.86	117630.00
4.00	6.0	BRICK WORK					
4.01	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:					
	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	103.00	Cum	7132.25	734621.75	
4.02	6.4	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :					
	6.4.2	Cement mortar 1:6 (1 cement: 6 coarse sand)	144.00	Cum	9105.95	1311256.80	
4.03	6.5	Extra for brick work / AAC block masonry / Tile brick masonry in superstructure above floor V level, for each four floors or part thereof by mechanical means.	29.00	Cum	169.45	4914.05	
4.04	6.12	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in :					
	6.12.2	Cement mortar 1:4 (1 cement :4 coarse sand)	6.00	Sqm	905.05	5430.30	
4.05	6.13	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.					
	6.13.2	Cement mortar 1:4 (1 cement :4 coarse sand)	712.00	Sqm	1123.80	800145.60	
4.06	6.14	Extra for half brick masonry in superstructure, above floor V level for every four floors or part thereof by mechanical means.	330.00	Sqm	15.00	4950.00	
4.07	6.15	Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry.	717.00	Sqm	104.80	75141.60	
4.08	6.38	Providing and laying Autoclaved Aerated concrete(AAC) blocks masonry 100 mm/ 125 mm thick with Grade-1 AAC blocks of density 551 to 650 kg/cum conforming to IS:2185 (Part 3) in super structure above plinth level up to floor V level in cement mortar 1:4 (1 cement: 4 coarse sand). The rate includes providing and placing in position 2 Nos 6 mm dia M.S. bars at every third course of masonry work.	46.00	Cum	10195.45	468990.70	

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						DSR	NON DSR
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4.09	6.47	Providing and laying Autoclaved Aerated concrete(AAC) blocks masonry with 150 mm to 300 mm thick with Grade-1 AAC blocks of density 551 to 650 kg/cum conforming to IS:2185 (Part 3) in super structure above plinth level up to floor V level with RCC band at sill level and lintel level with approved block laying polymer modified adhesive mortar all complete as per direction of Engineer-in-Charge. (The payment of RCC band and reinforcement shall be made for separately).	702.00	Cum	8333.65	5850222.30	
Total Brick Work :						9255673.10	0.00
5.00	8.0	Marble Work					
5.01	8.2	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, edge moulding, facia and polishing to edges to give high gloss finish etc. complete at all levels.					
	8.2.2	Granite Stone Slab of Colour Black, Cherry/Ruby red					
i)	8.2.2.1	Area of slab upto 0.50 sqm	11.00	Sqm	5413.50	59548.50	
ii)	8.2.2.2	Area of slab over 0.50 sqm	36.00	Sqm	5136.30	184906.80	
5.02	8.5	Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/ stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.	50.00	Each	978.70	48935.00	
5.03	8.10	Providing and fixing stone slab with table rubbed, edges rounded and polished, of size 75x50 cm deep and 1.8 cm thick, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-charge and finished smooth.					
	8.10.2	Granite Stone of approved shade	7.00	Sqm	4051.85	28362.95	
Total Marble Work :						321753.25	0.00
6.00	9.0	Wood Work					
6.01	9.1	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).					
	9.1.1	Second class teak wood	7.00	cum	142949.70	1000647.90	
6.02	9.21	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:					

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	9.21.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	299.00	Sqm	2392.65	715402.35	
6.03	9.127	Providing & Fixing decorative high pressure laminated sheet of plain / wood grain in gloss / matt / suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality.					
	9.127.1	1.5mm thick	596.00	Sqm	1045.95	623386.20	
6.04	9.23	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).	299.00	Sqm	462.35	138242.65	
6.05	9.96	Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete :					
	9.96.2	250x16 mm	1.00	Each	260.60	260.60	
6.06	9.113	Providing and fixing bright finished 100 mm mortice lock with 6 levers without pair of handles of approved quality for aluminium door, with necessary screws etc complete as per direction of Engineer- in-charge.	123.00	Sqm	850.05	104556.15	
6.07	9.97	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :					
	9.97.2	250x10 mm	123.00	each	115.15	14163.45	
	9.97.4	150x10 mm	1.00	each	82.55	82.55	
6.08	9.170	Providing and fixing stainless steel fancy handle fixed with SS screws etc. complete as per direction of Engineer-in-charge.					
	9.170.1	200 mm	278.00	each	186.65	51888.70	
6.09	9.101	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.					
	9.101.2	Twin rubber stopper	138.00	each	72.35	9984.30	
6.10	9.83	Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete.	138.00	each	1124.85	155229.30	
6.11	9.53	Providing 40x5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embedding in cement concrete block 30x10x15cm 1:3:6 mix (1 cement : 3 coarse sand: 6 graded stone aggregate 20mm nominal size).	982.00	each	228.85	224730.70	
6.12	9.24	Extra for providing vision panel not exceeding 0.1 sqm in all type of flush doors (cost of glass excluded) (overall area of door shutter to be measured):					
	9.24.1	Rectangular or square	90.00	Sqm	199.15	17923.50	

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						All Figures in Rs.	All Figures in Rs.
6.13	9.161	Providing and fixing fire resistant door frame of section 50 x 60 mm on horizontal side & 35 x 60 mm on vertical sides having built in rebate made out of 1.6 mm thick GI sheet (Zinc coating not less than 120 gm/sqm) suitable for mounting 120 minutes Fire Rated Glazed Door Shutters. The frame shall be filled with mineral wool Insulation having density minimum 96Kg/sqm. The frame will have a provision of G.I. anchor fasteners 14 nos (5 each on vertical style & 4 on horizontal style of size M10 x 80) suitable for fixing in the opening along with factory made template for SS ball bearing hinges of size 100x89x3 mm for fixing of fire rated glazed shutter. The frame shall be finished with an approved fire resistant primer or powder coating of not less than 30 micron in desired shade as per the directions of Engineer - in- Charge. (Cost of SS ball bearing hinges is excluded).	260.00	Metre	2202.90	572754.00	
6.14	9.162	Providing and fixing 60 mm thick glazed fire resistant door shutters of 120 minutes Fire rating conforming to IS:3614 (Part II) or EN1634-1:1999, tested and certified as per laboratory approved by Engineer-in-Charge, with suitable mounting on door frame, consisting of vertical styles, top rail & side rail 60 mm x 60 mm wide and bottom rail of 110 mm x 60 mm made out of 1.6 mm thick G.I. sheet (zinc coating not less than 120 gm/ sqm) duly filled mineral wool insulation having density minimum 96 kg/ cum and fixing with necessary stainless steel ball bearing hinges of size 100x89x3 mm, including applying a coat of approved fire resistant primer or powder coating not less than 30 micron etc all complete as per direction of Engineer-in-Charge (panelling to be paid for seperately).	127.00	Sqm	12017.90	1526273.30	
6.15	9.164	Providing and fixing glazing in fire resistant door shutters, fixed panels & partitions etc., with G.I. beading made out of 1.6 mm thick G.I. sheet (zinc coating not less than 120 gm/sqm) of size 20 x 33 mm screwed with M4 x 38 mm SS screws at distance 75 mm from the edges and 150 mm c/c , including applying a coat of approved fire resistant primer/ powder coating of not less than 30 micron on G.I. beading, & special ceramic tape of 5 x 20 mm size etc complete in all respect as per NBC 2016, IS 16231 (Part 3):2016 and as per direction of Engineer-in-Charge with glass of required thickness having 120 minutes of fire resistance both integrity & radiation control (EW120) and minimum 20 minutes of insulation (EI20). The manufacturer have to give test report/certification of fire glass and the glass should have the stamp showing the value of E, EW & EI. The glass shall be tested in approved NABL accredited lab or by any other accreditation body which operates in accordance with ISO/IEC 17011 and accredited labs as per ISO/IEC 17025 for testing and calibration scopes shall be eligible. The maximum glazing size shall not be more than 1100x2200 mm (w x h) or 2.42 sqm.	127.00	Sqm	43677.65	5547061.55	
6.16	9.139	Providing and fixing panic bar / latch (Double point) fitted with a single body, Trim Latch & Lock on back side of the Panic Latch of reputed brand and manufacture to be approved by the Engineer- in- charge, all complete.	32.00	each	8366.15	267716.80	

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S No	DSR 2023 / MR ITEMS	Description of Item	Qty	Unit	Rate	Amount	
						DSR	NON DSR
						All Figures in Rs.	All Figures in Rs.
6.17	MR	PELMET: Fabricate and install pelmet made of 19 mm thick board, up to 300 mm high and in line with external glazing as per details of Architect. Rate to include finishing exposed surfaces of the Pelmet with 1mm laminate.	309.00	Metre	692.00		213828.00
6.18	MR	5.5mm THICK FSP HDHMR BOARD: Providing and fixing in wall lining, partitions etc. Confirming to ASTM E-84-2021 class1 one side 1mm decorative Lamination, having even grade low emission, high moisture resistance, fire resistance, borer, termite & fungus resistance, green material and environmental friendly with necessary fixing arrangement and screws etc. , complete as per direction of Engineer-in-Charge					
		5.5mm thick FSP HDHMR Board	234.00	Sqm	623.00		145782.00
6.19	8.27	WOODEN BATTENS: Providing and fixing specified wood frame work consisting of battens 50x25mm fixed with rawl plug and drilling necessary holes for rawl plug etc. including priming coat complete.					
	8.27.1	Kiln seasoned and chemically treated hollock wood	3.00	Cum	187277.65	561832.95	
6.20	MR	GLASS FILMS: Providing & Fixing Frosted Translucent, cast PVC, self-adhesive vinyl, special CRYSTAL-effect film to reproduce Sand-blasting effect on glass with customised designs, thickness of 2 mil (0.05mm) without adhesive & 3mil (0.8)with adhesive having minimum tensile strength of 3.5 pound/inch at 73 F(0.6 kg/cm at 23 C). Adhesion after 24hrs of installation should be 4 pounds/inch (0.7 kg/cm) on Acrylic, Glass Polycarbonate: MCS warranty of 3yrs (if exposed to direct sunlight) to 15yrs (indoors) .	101.00	Sqm	1523.00		153823.00
6.21	MR	LACQUERED GLASS: Providing and fixing of 6mm thick annealed SGG Planilaque Evolution (premium GRIHA rated lacquered glass from Saint Gobain) of approved color by Architect/ Client / Customer, fixed with SGG ULTRAFIX (compatible neutral core silicon/ double sided tape) on a perfectly leveled 12mm thick water proof marine plywood / MDF / Mineral fibre board which is mounted on the RCC wall/any other structure. Lacquered glass must be made industrially (via curtain coating process); opaque (if viewed against a support wall), coated with PU lacquer (50 micron thick); color consistency (measured by Minolta spectrophotometer CM5081); highly durable (passes PERSOZ hardness test for minimum 220 oscillations); humid resistant (conforms to BS EN 1036 1999); environmentally friendly (no lead, no arsenic, no copper, no formaldehyde); appropriate recycled content (12% post industrial/ 6% post consumer); compressive strenght (1000 MPa) & tensile strength (40 MPa), same as float glass;	156.00	Sqm	4917.00		767052.00

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6.22	9.105	GYPSUM BOARD PARTITION: Providing and fixing partition upto ceiling height consisting of G.I. frame and required board, including providing and fixing of frame work made of special section power pressed/ roll form G.I. sheet with zinc coating of 120 gms/sqm(both side inclusive), consisting of floor and ceiling channel 50mm wide having equal flanges of 32 mm and 0.50 mm thick, fixed to the floor and ceiling at the spacing of 610 mm centre to centre with dash fastener of 12.5 mm dia meter 50 mm length or suitable anchor fastener or metal screws with nylon plugs and the studs 48mm wide having one flange of 34 mm and other flange 36 mm and 0.50 mm thick fixed vertically within flanges of floor and ceiling channel and placed at a spacing of 610 mm centre to centre by 6 mm dia bolts and nuts, including fixing of studs along both ends of partition fixed flush to wall with suitable anchor fastener or metal screws with nylon plugs at spacing of 450mm centre to centre, and fixing of boards to both side of frame work by 25mm long dry wall screws on studs, floor and ceiling channels at the spacing of 300mm centre to centre. The boards are to be fixed to the frame work with joints staggered to avoid through cracks, M.S. fixing channel of 99mm width (0.9mm thick having two flanges of 9.5mm each) to be provided at the horizontal joints of two boards, fixed to the studs using metal to metal flat head screws, including jointing and finishing to a flush finish with recommended jointing compound, jointing tape, angle beads at corners (25mmx25mmx0.5mm), joint finisher and two coats of primer suitable for board as per manufacturer's specification and direction of engineer in charge all complete.					
	9.105.1	75mm overall thickness partition with 12.5mm thick double skin fire rated Glass Reinforced Gypsum (GRG) plaster board conforming to IS: 2095: part 3 (Board with BIS certification marks)	108.00	Sqm	2131.10	230158.80	

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						DSR	NON DSR
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6.23	9.147 A	Providing and fixing factory made uPVC glazed/wire mesh windows/ doors comprising of lead free uPVC multi-chambered frame, sash and mullion/coupler (where ever required) extruded profiles having minimum wall thickness of 1.70 mm for Series R1 and R2 profiles and 2.10 mm for Series R3 and R4 profiles conforming to EN: 12608 in any shape, colour and design duly reinforced with galvanized mild steel section made of required shape & size as per CPWD Specification, uPVC extruded glazing beads, interlocks and Inline sash adaptor (where ever required) of appropriate dimension, EPDM gasket, hardware, SS 304 grade fasteners of minimum 8 mm dia with countersunk head, comprising of matching polyamide PA6 grade sleeve for fixing frame to finished wall as per IS 1367 : Part 1 to 14, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame, sash & mullion (if required) shall be mitred cut and fusion welded/mechanically jointed duly sealed at all corners, including drilling of holes for fixing hardware and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of approved size and quality, all complete as per approved drawing conforming to CPWD specification & direction of Engineer-in-Charge. Section of steel reinforcement and cross sections of uPVC profiles to be as per design approved by Engineer-in-Charge.					
		Wire mesh / Glazing of plain/ toughened/ laminated/ double glass unit with/ without high performance coatings as per design requirements and conforming to IS: 3548 & IS: 16231 shall be paid separately. Note:- Structural design proof checked from a Government Engineering Institute, to be provided by the manufacturer for (i) Sites with basic wind speed > 45 m/sec as per IS 875 - Part 3 (ii) Sites with structure height more than 20m for all wind speeds					
		Note:- Structural design proof checked from a Government Engineering Institute, to be provided by the manufacturer for (i) Sites with basic wind speed > 45 m/sec as per IS 875 - Part 3 (ii) Sites with structure height more than 20m for all wind speeds					
	9.147.A4	Three track three panels sliding window with two glazed & one wire mesh panels with Aluminium channel for roller track, wool pile, nylon rollers with SS 304 body.					
i)	9.147.A4.1	Using R2 series with frame (70 mm & above) x (40 mm & above) & both glazed and fly screen sash (25 mm & above) x (50 mm & above) with zinc alloy (zamak) powder coated touch locks with hook. (Height upto 1.2 metre).	1.00	Sqm	10,993.55	10,993.55	
ii)	9.147.A4.3	Using R4 series with frame (115 mm & above) x (45 mm & above) & both glazed and fly screen sash (44 mm & above) x (55 mm & above) with zinc alloy (zamak) powder coated handle on every glazed panel along with multi- point locking system. (Height above 1.8m)	1.00	Sqm	12,372.25	12,372.25	
iii)	9.147.C1	Fixed window/ ventilator without mullion / transom.					
	9.147.C1.1	Using R1 series with frame (33 mm & above) x (35 mm & above). (Height upto 0.90 metre)	1.00	Sqm	8,247.25	8,247.25	

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	9.147.C1.3	Using R3 series with frame (55 mm & above) x (45 mm & above). (Height upto 2.5 metre)	5.00	Sqm	7,080.05	35,400.25	
iv)	9.147.B1	Two track two panels sliding door with Aluminium channel for roller track, wool pile, zinc alloy (zamak) powder coated handle on every panel along with multi-point locking system, adjustable nylon rollers with SS 304 body.					
	9.147.B1.1	Using R3 series with frame (55 mm & above) x (40 mm & above) & sash (30 mm & above) x (74 mm & above). (Height upto 2.5 metre).	185.00	Sqm	8,106.30	1,499,665.50	
6.24	12.57	Providing and fixing thermal insulation with Resin Bonded Fibre glass wool conforming to IS: 8183 having density 24 kg/m3, 50 mm thick, wrapped in 200G Virgin Polythene Bags fixed to wall with screw, rawel plug & washers and held in position by criss crossing GI wire etc. complete as per directions of Engineer-in-Charge.	108.00	Sqm	358.50	38,718.00	
		Total Wood Work :				13367692.55	1280485.00
7.00	10.0	STEEL WORK					
7.01	10.25	Steel work welded in built up sections/ framed work, including cutting, hoisting, hinges, ms handle as required, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.					
	10.25.2	In gratings, frames, guard bar, ladder, railings, brackets, gates, safety grided door and similar works	7328.00	Kgs	172.60	1264812.80	
7.02	10.27	Providing and fixing carbon steel galvanised (minimum coating 5 micron) dash fastener of 10 mm dia double threaded 6.8 grade (yield strength 480 N/mm2), counter sunk head, comprising of 10 mm dia polyamide PA 6 grade sleeve, including drilling of hole in frame , concrete/ masonry, etc. as per direction of Engineer-in-charge.					
a)	10.27.2	10 x 80 mm	5.00	Each	137.65	688.25	
b)	10.27.4	10 x 140 mm	589.00	Each	182.20	107315.80	
7.03	10.28	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	12.00	Kgs	772.40	9268.80	
		Total Steel Work :				1382085.65	0.00

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						DSR	NON DSR
						All Figures in Rs.	All Figures in Rs.
8.00	11.0	FLOORING					
8.01	8.31	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	220.00	Sqm	1267.95	278949.00	
8.02	11.37	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete	120.00	Sqm	1096.55	131586.00	
8.03	11.41	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, in all colours and shades, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.					
	11.41.2	Size of Tile 600x600 mm	2980.00	Sqm	1553.45	4629281.00	
8.04	11.46	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete.					
	11.46.2	Size of Tile 600x600 mm	1291.00	Sqm	1623.05	2095357.55	
8.05	11.55	FLAMED FINISH GRANITE FLOORING : Providing and laying flamed finish Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement: 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge :					
	11.55.1	Flamed finish granite stone slab Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.	309.00	Sqm	3186.70	984690.30	

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						DSR	NON DSR
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8.06	11.56	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.					
	11.56.2	Polished Granite stone slab of all colour and texture except Black, Cherry/Ruby Red	243.00	Sqm	4481.30	1088955.90	
8.07	Analysis of DSR	Granite stone slabs 18 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	266.00	Sqm	5037.00	1339842.00	
8.08	11.24	Extra for pre finished nosing to treads of steps of marble stone.	426.00	Metre	719.90	306677.40	
8.09	11.25	Extra for marble stone flooring in treads of steps and risers using single length up to 2.00 metre.	128.00	Sqm	851.80	109030.40	
8.10	12.55	Providing and fixing Heat Resistant Terrace Tiles (300 mm x 300 mm x 20 mm) with SRI (solar refractive index) > 78, solar reflection > 0.70 and initial emittance > 0.75 on waterproof and sloped surface of terrace, laid on 20 mm thick cement sand mortar in the ratio of 1:4 (1 cement : 4 coarse sand) and grouting the joints with mix of white cement & marble powder in ratio of 1:1, including rubbing and polishing of the surface upto 3 cuts complete, including providing skirting upto 150 mm height along the parapet walls in the same manner.	730.00	Sqm	1703.95	1243883.50	
		Providing and installation (by spray method) of projected cork spray for interior, exterior wall and roofing surfaces. Wall surface must be dry, smooth and provided by civil contractor or client so the final finish can be desired and standard. Product with 2-3mm spray to achieve best of the product advantages as high performance against thermal conductivity, acoustic and thermal insulator, waterproofing, ecological, anti-oxidant, anti-bacterial, rot proof, anti-humidity, green building, sustainable, organic & natural material. Product must be sprayed over dry, levelled and smooth wall/ roof surfaces in dust free and non-rainy/non humid climate condition for better performance.					

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8.11	MR	Interior & Exterior projected cork spray must comply with below mentioned quality and technical standards. Adhesion resistance by pull-off test - EN-ISO 1524: 2000 - $\geq 1,9$ N/mm ² . Thermal conductivity - UNE-EN 12667 - 0,075 W/m. °C. Tensile strength and elongation at break - EN-ISO 527-4 - 0,36 Mpa. Crack bridging capability - EN 1062-3:2008 - A1 (-20°C). Thermal compatibility (freeze-thaw cycles) - EN 13687-5 - $\geq 0,8$ N/mm ² . "No bubbles and cracks". Water vapor permeability - EN ISO 7783-1(-2) - $S_d < 5$ m Class. Hazardous substances - EN 16516:2018 - Complies with 5.3. Volatile organic compounds (VOC)- UNE EN ISO 17895 - Maximum product content 15. Sound absorption - EN ISO 354:2004 - $\alpha_w = 0,10$. installation/spray on façade and roofing saves 20%-25% of AC consumption and made of 100% natural organic materials as base material 96% of cork granules, it helps government agencies, engineers, architects, project owners to achieve green building and sustainable compliances. Product must be with 10 years of warranty with acceptable aging decolouration with times. Spray method and wall preparations as per company standards shall not be sprayed over non recommended wall conditions and colour or patterns as per project architect or engineer approval.	2763.00	Sqm	2500.00		6907500.00
8.12	MR	EXTERIOR GRADE COMPACT HIGH-PRESSURE LAMINATE (HPL) CLADDING: Providing and fixing 6mm thick Suede Finish Greenlam, or equivalent exterior grade Clad (High Pressure Laminates) made up of 1300mm x 3050mm in size and conforming to EN 438-6:2016 standard, EDF Grade. Exterior CLAD HPL should be made under high pressure, using thermosetting Phenolic resin treated kraft layers, Amino plastic resin treated Exclusive & UV conforming Exterior Grade Decorative paper on both sides and UV protection layer above the décor papers on both sides. Clad should be resistant to wet conditions and meets permissible increase on mass, have density >1.35 gm /cm ³ , UV resistance of a minimum of 4 on a grey scale rating after 1500 hours, Resistance to artificial weathering including light fastness of a minimum rating of 4 (after 650 MJ/m ² radiant exposure). The product must conform to European Fire-Retardant norms of Bs1d0 when classified in accordance with EN 13501-1.					

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		The Fire-Retardant Additive must be Halogen free to protect the environment. HPL must be a green product conforming to GRIHA, GreenPro and Green Guard Gold certification and meet Anti bacterial and Anti-termite property under JIS Z2801. Finish and color of compact laminates should be finalized under direction of Engineer –in-charge. Clad should be installed on Aluminum tubular substructure in the size of 50mm x 25/50mm or as per site requirement fixed at a maximum center-to-center distance of 400mm to 600mm with the help of 5mm dia color matching rivets with sliding holes and fixed holes on the HPL. The aluminum tubular substructure should be fixed on wall with the help of dead load bearing brackets and wind load bracket by 10mm fastener. Wind load bracket will have vertical slot & dead load bracket will have in horizontal slot & maintain 6mm both horizontal and vertical gap between two installed clad panels. Shade/design of clad should be finalized under direction of Engineer –in-charge.	691.00	Sqm	8940.00		6177540.00
8.13	11.3	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.					
	11.3.1	40 mm thick with 20 mm nominal size stone aggregate	260.00	Sqm	614.20	159692.00	
8.14	11.54	RAISED FALSE FLOOR: Providing and fixing removable raised/false access flooring with system and its components for different plenum height with possible height adjustment upto 50mm, comprising of modular loadbearing floor panels supported on G.I. rectangular stinger frame work and G.I. Pedestal etc. all complete, as per the architectural drawings, as specified and as directed by Engineer-in-charge consisting of:					
		(a) Providing at required spacing to form modular framework, pedestals made out of GI tube of thickness minimum 2 mm and 25 mm outer diameter, fully welded on to the G.I. Base plate of size 100mm x 100mm x 3mm at the bottom of the pedestal tube, G.I. pedestal head of size 75mmx75mmx3.5 mm welded with GI fully threaded stud 16mm outer diameter with two GI Check nuts screwed on the stud for level adjustment upto 50mm, locking and stabilizing the pedestal head in position at the required level. The pedestals shall be fixed to the subfloor (base) through base plate using epoxy based adhesive or the machine screw with rawl plug.					
		(b) Stringers system in all steel construction hot dipped galvanized of rectangular size 570x20x30x0.80mm thick having holes at both ends for securing the stringers on to the pedestal head using fully threaded screws ensuring maximum lateral stability in all directions, the grid formed by the pedestal and stringer assembly shall receive the floor panel, this system shall provide adequate solid, rigid support for access floor panel, the system shall provide a minimum clear uninterrupted clearance between the bottom of the floor for electrical conduits and wiring etc. all complete as per the architectural drawings, as specified and as directed by the Engineer-in-charge.					

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		(c) Providing and fixing Access Floor panel of 600x600x32 mm medium grade Filled Steel anti static high pressure Lamination of 800H grade (FS800H). Access Floor panel shall be steel welded construction with an enclosed bottom pan with uniform pattern of 64 hemispherical cones. The top and bottom plates of Steel Gauges: top 0.6 mm and bottom 0.7 mm fused spot welded together (minimum 64 welds in each dome and 20 welds along each flange). The panel should be Corroresist epoxy coated for lifetime rust protection and cavity formed by the top and bottom plate is filled with Pyrogrip noncombustible Portland cementitious core mixed with lightweight foaming compound. The access floor shall be factory finished with Anti-static High Pressure laminate with Non Warp technology upto 1mm thickness for superior adhesion and Surface flatness within 0.75mm. The panel is to withstand a Concentrated Load of 363 kgs applied on area 25mm x 25mm without collapse in the centre of the panel which is placed on four steel blocks. The panel will withstand and Uniformly Distributed Load (UDL) minimum 1250 kg/sqm and an impact load of 50kg all complete as per the approved manufacturers specification and as per the direction of Engineer-in-charge. All specification must be printed on the side of the panel to ensure the quality of the product.					
	11.54.2	450mm Finished Floor Height (FFH).	22.00	Sqm	5977.35	131501.70	
8.15	MR	ALUMINIUM SKIRTING: Supply of 100mm Aluminium (Grade 6063) Skirting with 15 micron anodising In Natural Finish. Thickness 1.30 to 1.50mm. Designed to conceal screws. Seamless finish. Complete with Rubber/ PVC Jointers and Gasket.	3789.00	Metre	346.00		1310994.00
8.16	MR	CARPET TILES: Supply and Laying of 100% Nylon 6+ CRI Green Label Carpet Tiles - loop type using 100% Solution Dyed Process. Each tile should be of size 25 cm /100 cm or equivalent as per the direction of EIC and site requirement. Carpet tile should have tufting weight of minimum 610 GSM and average density of 5200 oz/cu.yd. Minimum pile thickness of carpet should be 3mm and total should be minimum 5.5 mm. The carpet tile should have minimum SPI of 10 and should be supplied with PVC backing. Carpet tiles shall be complied with Flammability Test ASTM E648, Methenamine Pill Test ASTM D2859, Smoke Density Test ASTM E662, Anti Soil ASTM D 6540-05 and Appearance Retention Hexapod test ASTM D5252. The laying of carpet shall be done with standard SR 98/ SR 505/MAPA Adhesives. The carpet to be installed as per the manufacture's specification and to be installed by its authorized agency or as approved.	260.00	Sqm	4845.00		1259700.00

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						DSR	NON DSR
						All Figures in Rs.	All Figures in Rs.
8.17	11.40	IPS FLOORING: 52mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacturer's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.	260.00	Sqm	978.45	254397.00	
8.18	MR	12 mm THICK HDHMR BOARD RAW : 12 mm thick FSP HDHMR Board: Providing and fixing in wall lining, partitions etc. Confirming to ASTM E-84-2021 class1, having even grade low emission, high moisture resistance, fire resistance, borer, termite & fungus resistance, green material and environmental friendly with necessary fixing arrangement and screws etc. , complete as per direction of Engineer-in-Charge					
		12mm thick FSP HDHMR Board	234.00	Sqm	730.00		170820.00
8.19	8.15	Providing and fixing stainless steel clamps of required size and shape for anchoring stone wall lining to the backing or securing adjacent stones in stone wall lining in cement mortar 1:2 (1 cement : 2 coarse sand), including making the necessary chases in stone and holes in walls wherever required.	177.00	Kg	714.40	126448.80	
8.20	MR.	VIC STRIP WALL PANELLING : Supply & Installation of Vicstrip (single slat/double slat) having size of 2400x600x12mm(+/- 2mm) thickness, backing of PET panel with front facia of 1mm laminate. The product use for absorption of medium and high frequency range with NRC of 0.50 direct fix. Panel should be anti fungal as per ASTM G:21 and also Non-toxic, non-irritant, and fire complying with safety standards confirm to Class 1 Fire Ratings tested as per BS 476 Part 6 passes (Fire Propagation) & Part 7 class2 (Surface spread of flame), for interior applications-The product should be 100% make in India and OEM must have ISO CERTIFICATIONS- complying to- IGBC membership ISO 14184-2 (Release formaldehyde) ISO 9001 (Quality Mangement System) ISO 14001 (Environmental Management System) ISO 45001 (Occupational helth & safety management system)	158.00	Sqm	5000.00		790000.00

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S No	DSR 2023 / MR ITEMS	Description of Item	Qty	Unit	Rate	Amount	
						DSR	NON DSR
						All Figures in Rs.	All Figures in Rs.
8.21	MR.	PET PANEL : Supply & Installation of VMT Embossed 12mm PET panels which shall be processed with VMT technology for surface customised colour options with available pattern as per the designers requirement, the panel shall be made from-100% polyester fiber, with up to 70% recycled fiber. size of panel 2800mm x 1200mm (± 0.5mm). Panel Should be anti fungal as per ASTM G:21 and also Non-toxic, non-irritant, and fire-resistant complying with safety standards confirm to Class 1 Fire Ratings tested as per BS 476 Part 6 (Fire Propagation) & Part 7 (Surface spread of flame) ASTM E 84 CLASS A, EN 13501 PART 1C,s2,d0 for interior applications. Noise reduction coefficient (NRC) - 0.70 with 9 mm backing direct fix, 0.75 with 12 mm backing direct fix and 0.90 with 25 mm backing direct fix. The product should be 100% make in india and OEM must have ISO CERTIFICATIONS-complying to- IGBC Membership ISO 14184-2 (Release formaldehyde) ISO 9001 (Quality Mangement System)ISO 14001 (Environmental Management System)ISO 45001 (Occupational helth & safety management system)	328.00	Sqm	3000.00		984000.00
8.22	16.75	Providing and laying C.C. pavement of mix M-25 with ready mixed concrete from batching plant. The ready mixed concrete shall be laid and finished with screed board vibrator , vacuum dewatering process and finally finished by floating, brooming with wire brush etc. complete as per specifications and directions of Engineer-in-charge. (The panel shuttering work shall be paid for separately). (Note:- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/ recoverable separately).	328.00	Cum	9823.80	3222206.40	
8.23	16.45	Providing and fixing pre-moulded joint filler in expansion joints of RCC roads / CC pavements after making the joints dust free with high pressure air jet cleaners, all complete as per direction of the Engineer-in-Charge. (Pre-moulded joint fillers shall be made of bitumen hot sealing compound impregnated fibre board having impregnation more than 35%, conforming to IS:1838 for fibre board and IS: 1834 for hot sealing bitumen compound grade A.)	219.00	per cm depth per cm width per metre length	5.30	1160.70	

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S No	DSR 2023 / MR ITEMS	Description of Item	Qty	Unit	Rate	Amount	
						DSR	NON DSR
						All Figures in Rs.	All Figures in Rs.
8.24	MR.	ALUMINIUM LOUVER Providing and fixing exterior cladding, Aluminium Louver System prefabricated aluminium designer louver systems (made out of Aluminium Alloy of Grade 3003 or 5000 Series) in panels / sizes / design of desired dimensions in required shape, size and required architectural profile, including finishing with super durable polyester powder coating of minimum 60 microns on both surfaces and H-14 tempering. (The colour & customized perforations of panels shall be as approved by the Engineer-in-charge). The coating shall conform to the specifications of /AAMA 2605. The combination of profiles shall be provided to suite the architectural design and pattern. The Aluminium Louver in One Piece profiles of required shape, length and height shall be fixed to approved with super durable polyester powder coating of minimum 60 microns with 25 Years warranty along with necessary aluminium frames as per the design intent. The rate shall include for supporting hardware, all accessories, necessary scaffolding/staging for all heights, leads and levels etc. complete as per approved shop drawings, technical specifications all complete as per directions and to the satisfaction of the Engineer-in-charge.	295.00	Metre	7820.00		2306900.00
Total Flooring Work :						16103659.65	19907454.00
9.00	12.0	ROOFING					
9.01	12.21	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement: 2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :					
	12.21.1	In 75x75 mm deep chase	474.00	metre	305.15	144641.10	
9.02	12.22	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.	26.00	Each	298.25	7754.50	

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S No	DSR 2023 / MR ITEMS	Description of Item	Qty	Unit	Rate	Amount	
						DSR	NON DSR
						All Figures in Rs.	All Figures in Rs.
9.03	12.45	GYPSUM BOARD CEILING: Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with					
	12.45.1	12.5mm thick tapered edge gypsum plain board conforming to IS: 2095-(Part I) :2011 (Board with BIS certification marks)	812.00	Sqm	1355.80	1100909.60	
9.04	MR	WOODEN VENEER/ BAMBOO CEILING: Providing and fixing wooden veneer / bamboo ceiling by Fixing Natural OAK Veneer 4 mm / natural bamboo shoots, mesh, screens, gall screen complete as per the design on 12mm UnderlayFire retardent Ply fixed to a subframe made using 50mm X 50mm Kiln seasoned and chemically treated hollock wood fixed to RCC ceiling using Fastners	113.00	Sqm	8223.00		929199.00

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S No	DSR 2023 / MR ITEMS	Description of Item	Qty	Unit	Rate	Amount	
						DSR	NON DSR
						All Figures in Rs.	All Figures in Rs.
9.05	MR	POLISH: Polishing in high gloss/matt finish melamine clear polish on wood work in required color/wooden shade texture with following process in the sequence as detailed below: 1. The surface to be polished is rubbed with sand paper 80/120 no. and then with sand paper of 160/180 nos. 2. Applying two coats of sealer with spray gun and allowing sufficient drying time for 1st coat and 2nd coat is allowed to dry for 8 to 12 hrs. 3. On drying of sealer coat, wet rubbing with emery cloth of finer grading with ample water to remove excess sealer layer and make the surface further smooth after this wet rubbing, then surface is applied with special grade melamine fillers to fill all the small and big holes/grooves etc. Filler coat to be allowed to dry for 4 to 6 hrs on which again a light wet rubbing is done this surface is further allowed to dry for 12 hrs.4. On this, 1st coat of melamine polish is applied with spray gun using melamine clear polish and melamine thinner in required proportion.This 1st coat is allowed to dry for 24 hrs then this dry surface is again fine wet rubbed smooth, which is further allowed to dry for 12 hrs. The final melamine polish is applied with compressor pressure spray gun using melamine clear polish and melamine thinner mixed in required proportion complete coat to be done in 1 or 2 layers without gap of time.) as per direction of Engineer-in-Charge.	113.00	Sqm	2467.00		278771.00
9.06	MR	WAVE BAFFLE CEILING: To Supply & Install Custom made Vertical curve Polylam Blades Ceilings as per the design intent. The vertically curve baffle system POLYLAM exhibiting space- delineating characteristics. The system comprises vertically curve baffle with 75-150mm deep curved rafters manufactured out of 1.2mm Aluminium to provide wave effect. The module for fixing baffle shall be 150mm centres as per design requirement. The carrier rails run perpendicular to the baffles axis and can be mounted with M6 threaded rods using technical approved fasteners as per EN 13964 standards. The individual baffle lengths between 1200- 2400 mm can be selected. Baffles lengths less than 1500mm required two carrier rails mounted at the baffle ends. Baffle longer than 1500mm require additional carrier rails mounted in the centre. Finish RAL Powder Coated.No Pre Coated products shall be accepted. The spacing of the grid angles is according to the requirements of DIN 18168 and DIN EN 13964 and quality controlled to ISO 9001:2015 approved by SIS & LEED certification by Indian Green Building council (IGBC).	84.00	Sqm	8998.00		755832.00

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						All Figures in Rs.	All Figures in Rs.
9.07	MR	PERFORATED GYPSUM BOARD CEILING: Providing and fixing suspended false ceiling Size 1188x1998x12.5mm Globe perforation 8/18 with 8.7% perforation with NRC upto 0.6 : Regular round perforation of glass fibre reinforced gypsum material, which includes providing and fixing GI perimeter channels of size 0.55 mm. Thk. having one flange of 20 mm and another flange of 30 mm and web of 27 mm along the perimeter of the ceiling, screw fixed to brick wall/ partition with help of nylon sleeves and screws, at 610 mm centers. The suspended GI intermediate channels of size 45 mm,0.9mm thk with two flanges of 15 mm each from the soffit at 900 mm centers with ceiling angle of width 25mm x 10mm x 0.55mm thk fixed to soffit with GI cleat and steel expansion fasteners. Ceiling section of 0.55 mm thk having web of 51.5mm & two flanges of 26mm each with lips of 10.5mm are fixed to the intermediate channels with help of connecting clips and in direction perpendicular to the intermediate channel with centers of 333 mm perforated gypboard is then screw fixed to ceiling section with 25 mm dry wall screws at 300 mm centers to G.I. framing in perfect level. Screw fixing is done mechanically either with screw driver or drilling machine with suitable attachment. Finally the boards are to be joined and finished so as to have a flush look with uniflot. Cleaneo Technology - Air purification & Air quality.Active reduction of air pollutants thanks to Cleaneo Technology effectively reduces concentrations of VOC's like alcohol, aldehydes, ketons and esters as well as unpleasant odours from e.g. food or cigarette smoke Air purification properties tested according to CEN standards and VDI guidelines by Fraunhof Insistute for Building Physics. The false ceiling surfaces shall be prepared to the satisfaction of the Architect, and shall be applied with two coats of primer to the satisfaction of Architects.	87.00	Sqm	3152.00		274224.00
9.08	MR	300X1200 SUSPENDEED FALSE CEILING : Providing and fixing suspended false ceiling microlook tegular edge tile with 15 mm thickness, easily demountable tile, manufactured from High density glass wool, visible surface is a batch painted glass tissue in white, back of the tile covered with glass tissue. Size 1200x600x15mm Acoustics-Sound absorption(Alpha W) - 0.95 at 200 mm o.d.s as per EN ISO 354 Acoustics-Sound absorption Class - Class A at 200 mm o.d.s as per EN ISO 11654Acoustics-Articulation class - 180 as per ASTM E1111, ASTM E1110,NRC - 0.9 NRC as per ASTM C 423,Humidity Resistance - Permanent ambient RH up to 95% at 30°C without sagging, warping and delaminating (13964:2014). Fire Safety - Tested and classified as non combustible according to EN ISO 1182 with reaction to fire classification class A2 s1 d0 according to EN 13501-1 - European Standard.	625.00	Sqm	3084.00		1927500.00

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						DSR	NON DSR
						All Figures in Rs.	All Figures in Rs.
9.09	MR	METAL CEILING FOR WET AREAS : Providing and fixing G.I Plain 84mm wide x12mm deep panel with 16 mm flush profile to make it 100mm module of length upto 6mtr, shall be roll formed out of 0.5mm thick Powder Coated .The top coat of panel shall be 60 micron polyester coated finish in approved colour. The panel shall be factory cut in up to 6Mtr OR required length. Accessories Detail:Carrier: 32 mm wide and 39mm deep, made out of 0.5mm thick steel backed with enameled black paint having cut out to hold on panel in a module of 100mm closed. The joint of two carriers shall be joined by means of carrier splices maintaining a module of 100mm .4mm dia galvanized rod with special height adjustment butter fly clips made out of SS steel sheet. The edge profile G.I.shall be matching with the panel.	484.00	Sqm	2741.00		1326644.00
9.10	MR	ACOUSTIC Baffle CEILING: Supply and installation of baffle made of 9 mm HD PET panels (2400x9x140 mmht) with density of 1650 GSM from 44 colour options as per the designers requirement, the panel shall be made from 100% polyester fiber, with up to 60% recycled fiber. size of panel 2800mm x 1200mm (± 5mm). Panel should be anti fungal as per ASTM G:21 and also Non-toxic, non-irritant, and fire-compliance with fire-compliance with safety standards confirm as per BS 476 Part 6 (Fire Propagation) & Part 7 (Surface spread of flame) for interior applications. ASTM E84 class A (Available on orders), ASTM D 2859, BS 5852 PART 1, EN 13501 part 1B,s1, d0. The product should be 100% make in india and OEM must have ISO CERTIFICATIONS- complying to- IGBC membership ISO 14184-2 (no formaldehyde) ISO 9001 (Quality Mangement System) ISO 14001 (Environmental Management System) ISO 45001 (Ocupational helth & safety management system) Environmental Product Declaration(EPD), Green Pro.ISO 14184-2(No Formaldehyde) Declare- Red List Free, Indoor Air Quality (IAQ),ARAI, HPD 3.0 CDPH v1.2 (Low VOC), Note:- Compliance Of HD PET	10.00	Sqm	4137.00		41370.00

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						All Figures in Rs.	All Figures in Rs.
9.11	MR	OPEN CELL CEILING: Supply and installtion of Metal open Cell ceiling made of GI made and powder coated of approved RAL shade. open cell ceiling with cell size of 50 x 50 mm. The cell is formed by locking of upper sections and lower sections with U shaped profiles of 40mm height 15mm width and 595 mm length. The upper and lower sections when locked are locked with end panels on all 4 sides to form a tile of 595 x 595mm. Each tile is installed on a 15mm T Grids system The grids system is formed by locking of GI made Main T of 3000mm or 3600mm length and GI Cross T of 600mm at 600mm c/c. GI wall angle 25x25 x0.4x3000mm {Material-GI(IS513),YS-280Mpa,Finish-Galvanised 90GSM(IS277)} is fixed along the periphery of the ceiling with wooden screws at 300mm centers or Hilti HPS 6x40mm placed at 600 mm c/c. The grid system is suspended by 4 mm wire rod with adjustable clip, connected to the grids system at 1200mm c/c. The suspension rod with clip is fixed to the slab by means of soffit cleat and rawl plug (fastner), at 1200mm c/c. Gyproc® soffit cleat 27x37x25x1.6mm {GI(IS513)YS-260Mpa, Finish-Galvanised 120GSM(IS277) } is fixed with Gyproc® Rawl Plug- Ø8x45mm {Material-IS 513 CR1 grade, Zinc coating (7 to 8 microns) pull out load- 6.8kN for M30 concrete grade} Suspension etc. all complete as per direction of Engineer-in-charge.	519.00	Sqm	2800.00		1453200.00
Total Roofing Work :						1253305.20	6986740.00
10.00	13.0	FINISHING					
10.01	13.4	12 mm cement plaster of mix :					
	13.4.2	1:6 (1 cement : 6 coarse sand)	12219.00	Sqm	343.65	4199059.35	
10.02	13.16	6 mm cement plaster of mix :					
	13.16.1	1:3 (1 cement : 3 fine sand)	3818.00	Sqm	300.45	1147118.10	
10.03	13.11	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 coarse sand) finished with a top layer 6 mm thick cement plaster 1:6 (1 cement : 6 fine sand).	4055.00	Sqm	518.55	2102720.25	
10.04	13.22	Extra for plastering exterior walls of height more than 10 m from ground level for every additional height of 3 m or part thereof.	3201.00	Sqm	87.10	278807.10	
10.05	13.26	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	16847.00	Sqm	262.70	4425706.90	
10.06	13.83	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour.					
	13.83.2	Two coats	16847.00	Sqm	142.80	2405751.60	
10.07	13.62	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :					
	13.62.1	Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture	354.00	Sqm	226.25	80092.50	
10.08	13.45	Finishing walls with textured exterior paint of required shade :					
	13.45.1	New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/10 sqm	1104.00	Sqm	223.60	246854.40	

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						DSR	NON DSR
						All Figures in Rs.	All Figures in Rs.
10.09	13.114	Melamine polishing on wood work (one or more coat).	6.00	Sqm	1192.30	7153.80	
10.10	13.18	Neat cement punning.	234.00	Sqm	79.95	18708.30	
10.11	13.80	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	1030.00	Sqm	156.05	160731.50	
10.12	13.37	washing with lime to give an even shade :					
	13.37.1	New work (three or more coats)	1.00	Sqm	39.05	39.05	
Total Finishing Work :						15072742.85	0.00
11.00	21.0	ALUMINIUM WORK					
11.01	21.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :					
	21.1.1	For fixed portion					
	21.1.1.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	32.00	Kg	530.90	16988.80	
11.02	21.1.2	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 EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)					
	21.1.2.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	49.00	Kg	634.45	31088.05	
11.03	21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):					
	21.3.2	With float glass panes of 5 mm thickness (weight not less than 12.50 kg/sqm)	4.00	Sqm	1505.25	6021.00	
	21.3.3	With float glass panes of 8 mm thickness (weight not less than 20 kg/sqm)	185.00	Sqm	1685.40	311799.00	
11.04	21.8	Filling the gap in between aluminium frame & adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete					
	21.8.1	Upto 5 mm depth and 5 mm width	8.00	metre	96.75	774.00	
11.05	21.2	Providing and fixing aluminium casement windows fastener of required length for aluminium windows with necessary screws etc. complete					

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						DSR	NON DSR
						All Figures in Rs.	All Figures in Rs.
	21.15.1	Anodized (AC 15) aluminium	2.00	Each	89.40	178.80	
11.06	21.2	Providing and fixing aluminium round shape handle of outer dia 100 mm with SS screws etc. complete as per direction of Engineer-in-charge					
	21.16.1	Anodized (AC 15) aluminium	2.00	Each	107.90	215.80	
11.07	21.18	Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & double acting hydraulic floor spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer-in-charge (Door handle, lock and stopper etc.to be paid separately).	16.00	Sqm	5325.90	85214.40	
11.08	21.12	Providing and fixing aluminium tubular handle bar 32 mm outer dia, 3.0 mm thick & 2100 mm long with SS screws etc .complete as per direction of Engineer-in-Charge.					
	21.12.1	Anodized (AC 15) aluminium tubular handle bar	18.00	Each	575.75	10363.50	
11.09	Analysed on DSR	Providing and fixing 12mm thick toughened glass in Aluminium frame work including sealing with EPDM / Neoprene gasket all complete as per the architectural drawings and the directions of engineer-in-charge	5.00	Sqm	3595.00	17975.00	
11.10	MR	SINGLE GLAZED SLEEK PARTITION: Supply and installation of aluminum profile for single-glazed straight partition with top, bottom and side profiles of size 21mm x 30mm natural anodised finish and suitable gaskets for insertion with 10mm thick clear toughened glass. It consists of 2 way polycarbonate profiles, 90 Degree L Junction and T Junction profiles and suitable fasteners for fixing profiles including installation charges.	139.00	Sqm	10965.00		1524135.00
11.11	MR	SINGLE GLAZED SINGLE LEAF DOOR: Supply and Installation of door frame size 55X36mm and single leaf single glazed stile door frame size 40x82mm with seals natural/black anodized finish with Hardware: Flush Hinges(4 Nos) & Lever Handle with Narrow sash Lock 35mm backset, oval escutcheons, strike plate, EPC both side key-70mm and saint gobain exposed door closer with Hold Open unit with insertion of 10mm thick clear toughened glass and necessary seals to be provided all around the door frames and drop down seal.	24.00	Nos	109646.00		2631504.00
11.12	MR	FIBRE WALL COVERING: Supply & Installation of Glass fiber based homogenous Woven/ non-woven .1mm thick, 100-200 GSM Density brethable Wall Coverings. Material to be fire certified with minimum Euroclass BS1D0 certification under EN13501, no harmful chemical coated with Oekotex Standard 100 certification and non-toxic in nature for closed environments with A+ attested for emission in indoor air. Installation to be done over smooth, dry and dust-free substrate as specified with OEM recommended adhesive by the supplier's authorized installer team. Installation measurement as per the entire area (concealed/visible) installed. Finished as per satisfaction of E.I.C. PAINTABLE	44.00	Sqm	1508.00		66352.00

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

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						All Figures in Rs.	All Figures in Rs.
11.13	MR	INSULATION : Providing and fixing thermal insulation with Resin Bonded Fibre glass wool conforming to IS: 8183 having density 24 kg/m ³ , 50 mm thick, wrapped in 200G Virgin Polythene Bags fixed to wall with screw, rawel plug & washers and held in position by criss crossing GI wire etc. complete as per directions of Engineer-in-Charge.	234.00	Sqm	359.00		84006.00
11.14	MR	Fabrication, Supply & installation of Top mounted SS 304 Grade satin finished railing for staircase area made by using SS Top rail Ø50x1.5 mm Thk. mounted on SS baluster made of SS round tube baluster of Ø50 x 1.5 mm thick with SS modular swivel neck to hold the top rail. The total height of the installed rail including top rail will be 1050 mm from FFL. Further the baluster will be mounted on Dia-100x6 mm thick SS 304 grade base plate fixed on the Top of the RCC floor with 3 nos. of M10 x 120 mm long HRD anchors or chemical based anchor. The baluster will hold 5 nos. of SS round tube of Ø16 x 1.5 mm thk. as horizontal/diagonal mid rails connected to the baluster with the help of CNC made modular adjustable connectors. only argon welding allowed at site. The average spacing of baluster will be 900 mm. All material need to be in SS 304 grade with satin finish only.	184.00	Sqm	7000.00		1288000.00
11.15	16.81	Providing and erecting 2.00 metre high temporary barricading at site; each panel of size 2.50 m x 2.00 m made of 40x40x6 mm angle iron or 50x50x3 mm hollow MS tube posts/horizontal members/bracings covered with 1.63 mm thick MS sheet. The sheet shall be fixed with 30x5 mm MS flat by suitable welding/riveting. The panels shall be made so that gap of 50cm above the ground is available making overall height as 2.5 m. MS channel ISLC 75 @ 5.70 kg/m, 50 cm long shall be provided at the bottom having oval shaped holes of size 50x25 mm at both ends with 50 cm long MS angle 40x40x6 mm bracing. Suitable arrangement shall be made to fix the barricading to avoid from overturning by providing 250 mm long expansion fasteners at both ends. The work shall be executed as per drawing/direction of Engineer-in-Charge which includes writing and painting, arrangement for traffic diversion such as traffic signals during construction at site for day and night, glow lamps, reflective signs, marking, flags, caution tape as directed by the Engineer-in-Charge. The barricading provided shall be retained in position at site continuously including shifting of barricading from one location to another location as many times as required during the execution of the entire work till its completion. Rate include its maintenance for damages, painting, all incidentals, labour materials, equipments and works required to execute the job. The barricading shall not be removed without prior approval of Engineer-in-Charge.					
		(Note :- One time payment shall be made for providing barricading from start of work till completion of work including shifting. The barricading provided shall remain to be the property of the contractor on completion of the work).	164.00	metre	3439.50		564078.00
Total aluminium Work :						480618.35	6158075.00

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Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

S No	DSR 2023 / MR ITEMS	Description of Item	Qty	Unit	Rate	Amount	
						DSR	NON DSR
						All Figures in Rs.	All Figures in Rs.
12.00	25.0	STRUCTURE GLAZING WORK					
12.01	25.1	Providing and supplying aluminium extruded tubular and other aluminium sections as per the architectural drawings and approved shop drawings, the aluminium quality as per grade 6063 T5 or T6 as per BS 1474, including super durable powder coating of 60-80 microns conforming to AAMA 2604 of required colour and shade as approved by the Engineer-in-Charge. (The item includes cost of material such as cleats, sleeves, screws etc. necessary for fabrication of extruded aluminium frame work. Nothing extra shall be paid on this account). The weight of aluminium extruded section shall be taken for purpose of payment.	20755.00	Kgs	414.30	8598796.50	
12.02	25.2	Designing, fabricating, testing, protection, installing and fixing in position semi (grid) unitized system of structural glazing (with open joints) for linear as well as curvilinear portions of the building for all heights and all levels, including					
		(a) Structural analysis & design and preparation of shop drawings for the specified design loads conforming to IS 875 part III (the system must passed the proof test at 1.5 times design wind pressure without any failure), including functional design of the aluminum sections for fixing glazing panels of various thicknesses, aluminium cleats, sleeves and splice plates etc. gaskets, screws, toggles, nuts, bolts, clamps etc., structural and weather silicone sealants, flashings, fire stop (barrier)-cum-smoke seals, microwave cured EPDM gaskets for water tightness, pressure equalisation & drainage and protection against fire hazard including:					
		(b) Fabricating and supplying serrated M.S. hot dip galvanised / Aluminium alloy of 6005 T5 brackets of required sizes, sections and profiles etc. to accommodate 3 Dimentional movement for achieving perfect verticality and fixing structural glazing system rigidly to the RCC/ masonry/structural steel framework of building structure using stainless steel anchor fasteners/ bolts, nylon seperator to prevent bimetallic contacts with nuts and washers etc. of stainless steel grade 316, of the required capacity and in required numbers.					
		(c) Providing and filling, two part pump filled, structural silicone sealant and one part weather silicone sealant compatible with the structural silicone sealant of required bite size in a clean and controlled factory / work shop environment, including double sided spacer tape, setting blocks and backer rod, all of approved grade, brand and manufacture, as per the approved sealant design, within and all around the perimeter for holding glass					
		(d) Providing and fixing in position flashings of solid aluminium sheet 1 mm thick and of sizes, shapes and profiles, as required as per the site conditions, to seal the gap between the building structure and all its interfaces with curtain glazing to make it watertight.					

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S No	DSR 2023 / MR ITEMS	Description of Item	Qty	Unit	Rate	Amount	
						DSR	NON DSR
						All Figures in Rs.	All Figures in Rs.
		(e) Making provision for drainage of moisture/ water that enters the curtain glazing system to make it watertight, by incorporating principles of pressure equalization, providing suitable gutter profiles at bottom (if required), making necessary holes of required sizes and of required numbers etc. complete. This item includes cost of all inputs of designing, labour for fabricating and installation of aluminium grid, installation of glazed units, T&P, scaffolding and other incidental charges including wastages etc., enabling temporary structures and services, cranes or cradles etc. as described above and as specified.					
		The item includes the cost of getting all the structural and functional design including shop drawings checked by a structural designer, dully approved by Engineer-in-charge. The item also includes the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled working structural glazing as specified, cleaning and protection till the handing over of the building for occupation. In the end, the Contractor shall provide a water tight structural glazing having all the performance characteristics etc. all complete as required, as per the Architectural drawings, as per item description, as specified, as per the approved shop drawings and as directed by the Engineer- in-Charge.					
		Note:- 1. The cost of providing extruded aluminium frames, shadow boxes, extruded aluminium section capping for fixing in the grooves of the curtain glazing and vermin proof stainless steel wire mesh shall be paid for separately under relevant items under this sub- head. However, for the purpose of payment, only the actual area of structural glazing (including width of grooves) on the external face shall be measured in sqm. up to two decimal places.					
		Note:-2. The following performance test are to be conducted on structural glazing system if area of structural glazing exceeds 2500 Sqm from the certified laboratories accredited by NABL(National Accreditation Board for Testing and Calibration Laboratories), Department of Science & Technologies, India. Cost of testing is payable separately. The NIT approving authority will decide the necessity of testing on the basis of cost of the work, cost of the test and importance of the work. Performance Testing of Structural glazing system Tests to be conducted in the NABL accredited lab or any other accreditation body which operates in accordance with ISO/IEC 17011 and accredits labs as per ISO/IEC 17025					
		1. Performance Laboratory Test for Air Leakage Test (-50pa to - 300pa) & (+50pa to +300pa) as per ASTM E-283-04 testing method for a range of testing limit 1 to 200 mVhr					
		2. Static Water Penetration Test. (50pa to 1500pa) as per ASTM E- 331-09 testing method for a range up to 2000 ml					
		3. Dynamic Water Penetration (50pa to 1500pa) as per AAMA 501.01-05 testing method for a range upto 2000 m					

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Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

S No	DSR 2023 / MR ITEMS	Description of Item	Qty	Unit	Rate	Amount	
						DSR	NON DSR
						All Figures in Rs.	All Figures in Rs.
		4. Structural Performance Deflection and deformation by static air pressure test (1.5 times design wind pressure without any failure) as per ASTM E-330-10 testing method for a range upto 50 mm					
		5. Seismic Movement Test (upto 30 mm) as per AAMA 501.4-09 testing method for Qualitative test, Tests to be conducted on site					
		6. Onsite Test for Water Leakage for a pressure range 50 kpa to 240 kpa (35psi) upto 2000 ml	2076.00	Sqm	3510.50	7287798.00	
12.03	25.3	Providing, assembling and supplying vision glass panels (IGUs) comprising of hermetically-sealed 6-12- 6 mm insulated glass (double glazed) vision panel units of size and shape as required and specified, comprising of an outer heat strengthened float glass 6 mm thick, of approved colour and shade with reflective soft coating on surface # 2 of approved colour and shade, an inner Heat strengthened clear float glass 6 mm thick, spacer tube 12 mm wide, dessicants, including primary seal and secondary seal (structural silicone sealant) etc. all complete for the required performances, as per the Architectural drawings, as per the approved shop drawings, as specified and as directed by the Engineer-in-Charge. The IGUs shall be assembled in the factory/ workshop of the glass processor.					
		(Payment for fixing of IGU Panels in the curtain glazing is included in cost of item No.25.2) For payment, only the actual area of glass on face # 1 of the glass panels (excluding the areas of the grooves and weather silicone sealant) provided and fixed in position, shall be measured in sqm.					
	(i)	(i) Coloured tinted float glass 6 mm thick substrate with reflective soft coating on face # 2, + 12 mm Airgap + 6 mm Heat Strengthened clear Glass of approved make having properties as visible Light transmittance (VLT) of 25 to 35 %, Light reflection internal 10 to 15%, light reflection external 10 to 20 %, shading coefficient (0.25- 0.28) and U value of 3.0 to 3.3 W/m2 degree K etc. The properties of performance glass shall be decided by technical sanctioning authority as per the site requirement.	2076.00	Sqm	3718.70	7720021.20	
12.04	25.4	Extra for openable side / top hung vision glass panels (IGUs) including providing and supplying at site all accessories and hardwares for the openable panels as specified and of the approved make such as heavy duty stainless steel friction hinges, min 4 -point cremone locking sets with stainless steel plates, handles, buffers etc. including necessary stainless steel screws/ fasteners, nuts, bolts, washers etc. all complete as per the Architectural drawings, as per the approved shop drawings, as specified and as directed by the Engineer- in-Charge.	104.00	Sqm	3671.50	381836.00	

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

S No	DSR 2023 / MR ITEMS	Description of Item	Qty	Unit	Rate	Amount	
						DSR	NON DSR
						All Figures in Rs.	All Figures in Rs.
12.05	25.5	Providing, fabricating and supplying shadow box of required size and shape, for fixing in the spandrel portion of the structural glazing, in linear as well as curvilinear portions of the building by providing semi-rigid, inorganic, non-combustible fibre glass wool insulation 50 mm thick, conforming to IS: 8183 and BS: 3958 Part 5. The insulation layer shall have facing (factory bonded on surface # 1 of the fibre glass insulation layer), of black non-woven fibre glass tissue of nominal thickness 0.5 mm and nominal mass not less than 60 gm /sqm, made of randomly oriented glass fibres distributed in a binder by a wet-lay process including fixing 1.5 mm thick solid aluminum sheet backing using, 6 mm thick cement board including SS rivets, nuts, bolts, washers etc complete.	35.00	Sqm	2159.65	75587.75	
12.06	25.6	Providing and supplying Spandrel Glass Panels comprising of 6 mm thick heat strengthened monolithic float glass of approved colour and shade with reflective soft coating on surface # 2 of approved colour and shade so as to match the colour and shade of the IGUs in the vision panels etc. ,all complete for the required performances as specified, as per the Architectural drawings, as per the approved shop drawings, as specified, and as directed by the Engineer- in- Charge. For payment, only the actual area of glass on face # 1 of the glass panels (but excluding the area of grooves and weather silicone sealant) provided and fixed in position, shall be measured in sqm. (Payment for fixing of Spandrel Glass Panels in the curtain glazing is included in cost of relevant Item*).".					
		(i) Coloured tinted float glass 6 mm thick substrate with reflective soft coating on face # 2, having properties as visible Light transmittance (VLT) of 25 to 35 %, Light reflection internal 10 to 15%, light reflection external 10 to 20 %, shading coefficient (0.25- 0.28) and U value of 3.0 to 3.3 W/m2 K etc. . The properties of performance glass shall be decided by technical sanctioning authority as per the site requirement.	35.00	Sqm	2450.15	85755.25	
Total Structural Glazing work :						24149794.70	0.00
13.00	22.0	WATER PROOFING					
13.01	MR	Single component PU+0.3mm PVC Membrane, complying to IS 15909 (Category A, Type 1)	309.00	Sqm	761.00		235149.00
13.02	MR	1.2mm Single component PU + 1mm thick PVC Membrane, (Category A, Type IV), complying to IS 15909 on the mother/ RCC slab. Additionally, 2-component acrylic cementitious coating with protection of fiberglass mesh/ fabric over the insulation/ screed concrete made for required slope/ drainage.	909.00	Sqm	969.00		880821.00
13.03	MR	Providing and laying 1.5mm Fully Bonded HDPE membrane, complying to IS 16352	1711.00	Sqm	1453.00		2486083.00
13.04	MR	Providing and laying 1.2mm thick HDPE membrane, complying to IS 16352 (for confined retaining walls) + protection	1472.00	Sqm	1453.00		2138816.00
13.05	MR	Providing and applying Swellable Rubber (hydro expensive) for all applications except for Water Storage Tanks where PVC Centrally Placed Water stops shall be used	1177.00	Metre	484.00		569668.00

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Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

S No	DSR 2023 / MR ITEMS	Description of Item	Qty	Unit	Rate	Amount	
						DSR	NON DSR
						All Figures in Rs.	All Figures in Rs.
13.06	MR	Waterproofing of basements and/or other areas as required with 75mm guniting with 1:4 cement sand mortar to the R.C.C. elements, after cleaning the surface off dust dirt including providing and fixing 100 x 100 x 10G Welded mesh and applying adhesive chemical Conbond SNA as required complete.					
	a)	For Horizontal surface	1142.00	Sqm	969.00		1106598.00
	b)	For Vertical Surface	1173.00	Sqm	969.00		1136637.00
		Total water proofing work :				0.00	8553772.00
14.00	20	PILE WORKS					
14.01	20.3	Boring with hydraulic piling rigs with power units, providing and installing cast in situ single under reamed piles of specified diameter and length below pile cap in M-25 cement concrete, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and the length of the pile to be embedded in pile cap etc. all complete. (Length of pile for payment shall be measured upto to the bottom of pile cap) :					
	20.3.4	600 mm dia piles	6480.00	Metre	3637.20	23569056.00	
14.02	20.6	Vertical load testing of piles in accordance with IS 2911 (Part IV) including installation of loading platform by Kentledge/Anchor piles method and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & the direction of Engineer in-charge. Note: 1. Initial and Routine Load Test shall not be carried out by Dynamic method of testing. Note: 2. Testing agency shall submit the design of loading platform for the approval of Engineer-in-charge.					
	20.6.1	Single pile upto 50 tonne Safe capacity					
	20.6.1.1	Initial test (Test Load 2.5 times the Safe capacity)	5.00	per test	54771.50	273857.50	
	20.6.1.2	Routine test (Test Load 1.5 times the Safe capacity)	5.00	per test	19632.40	98162.00	
14.03	20.9	Integrity testing of Pile using Low Strain/ Sonic Integrity Test/ Sonic Echo Test method in accordance with IS :14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill trained personal for conducting the test & submission of results, all complete as per direction of Engineer-in-charge.					
		Note :- The inclusion of the above item in the schedule of work shall be judiciously decided by the technical sanctioning authority, keeping in view the quality control, type of soil strata & importance of the project.	216.00	per test	1153.20	249091.20	
14.04	MR	Providing and fixing permanent steel sheet piles and section including coating/ anti-corrosive treatment, driving, interlocking, welding, alignment and all incidental works complete as per specifications.	1133.00	Sqm	8998.00		10194734.00
		Total Pile work :				24190166.70	10194734.00

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

S No	DSR 2023 / MR ITEMS	Description of Item	Qty	Unit	Rate	Amount	
						DSR	NON DSR
						All Figures in Rs.	All Figures in Rs.
15.00	16.0	ROAD WORK					
15.01	16.1	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth with lead upto 50 metres.	617.00	Sqm	218.90	135061.30	
15.02	16.91	Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50 mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand. complete all as per direction of Engineer-in-Charge.					
	16.91.2	80 mm thick C.C. paver block of M-35 grade with approved colour design and pattern.	1.00	Sqm	1091.50	1091.50	
15.03	16.78	Construction of granular sub-base by providing close graded Material conforming to specifications, mixing in a mechanical mix plant at OMC, carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.					
	16.78.3	With material conforming to Grade-III (size range 26.5 mm to 0.075 mm) having CBR Value-20	124.00	Cum	2808.55	348260.20	
15.04	16.69	Providing and laying at or near ground level factory made kerb stone of M- 25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment).					
		(Precast C.C. kerb stone shall be approved by Engineer-in-charge).	18.00	Cum	10117.60	182116.80	
15.05	16.53	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Y' shaped placed 2.4m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	164.00	metre	375.80	61631.20	

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S No	DSR 2023 / MR ITEMS	Description of Item	Qty	Unit	Rate	Amount	
						DSR	NON DSR
						All Figures in Rs.	All Figures in Rs.
15.06	16.70	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge.					
	16.70.1	Made of G.I. wire of dia 4 mm	10.00	sqm	1017.80	10178.00	
15.07	11.45	Providing and laying 500x500x40 mm thick Turf paver (Turf pave XO) on 150 mm thick sub grade of compacted bed of 20 mm thick nominal size stone aggregate and base course and filling with 150 mm thick Jamuna sand, including spreading, well ramming, consolidating and finishing smooth etc. all complete as per direction of Engineer-in-charge.	10.00	sqm	1708.10	17081.00	
15.08	16.43	Providing and laying design mix cement concrete of M-30 grade, in roads/ taxi tracks/ runways, using cement content as per design mix, using coarse sand and graded stone aggregate of 40 mm nominal size in appropriate proportions as per approved & specified design criteria, providing dowel bars with sleeve/ tie bars wherever required, laying at site, spreading and compacting mechanically by using needle and surface vibrators, levelling to required slope/ camber, finishing with required texture, including steel form work with sturdy M.S. channel sections, curing, making provision for contraction/ expansion, construction & longitudinal joints (10 mm wide x 50 mm deep) by groove cutting machine, providing and filling joints with approved joint filler and sealants, complete all as per direction of Engineer in-charge (Item of joint fillers, sealants, dowel bars with sleeve/ tie bars to be paid separately).					
		Note:- Cement content considered in M-30 is @ 340 kg/cum. Excess/ less cement used as per design mix is payable/ recoverable separately.					
	16.43.1	Cement concrete prepared with batch mixing machine	124.00	Cum	10529.35	1305639.40	
15.09	16.45	Providing and fixing pre-moulded joint filler in expansion joints of RCC roads / CC pavements after making the joints dust free with high pressure air jet cleaners, all complete as per direction of the Engineer-in-Charge. (Pre-moulded joint fillers shall be made of bitumen hot sealing compound impregnated fibre board having impregnation more than 35%, conforming to IS:1838 for fibre board and IS: 1834 for hot sealing bitumen compound grade A.)	411.00	per cm depth per cm width per metre length	5.30	2178.30	
15.10	16.80	Construction of dry lean cement concrete sub base over a prepared sub grade with coarse and fine aggregate conforming to IS:383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per specifications, cement content not to be less than 150 Kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, for all leads & lifts, laid with a mechanical paver, compacting with 8-10 tonne vibratory roller, finishing and curing etc. complete as per direction of Engineer-in-charge.	93.00	Cum	4148.65	385824.45	

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S No	DSR 2023 / MR ITEMS	Description of Item	Qty	Unit	Rate	Amount	
						DSR	NON DSR
						All Figures in Rs.	All Figures in Rs.
15.11	16.47	Painting runway/taxi track/apron marking with adequate nos of coats to give uniform finish with road marking paint as approved by the Engineer-in-charge, including cleaning the surface of all dirt, scales, oil, grease and other foreign material etc. and lining out complete.					
	16.47.1	New work (Two or more coats)	62.00	Sqm	188.20	11668.40	
		Total Road Work:				2460730.55	0.00
16.00	23.0	RAINWATER HARVESTING					
16.01	23.5	Supplying, filling, spreading & levelling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of Engineer-in	29.00	Cum	1509.80	43784.20	
16.02	23.6	Supplying, filling, spreading & levelling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.	29.00	Cum	1538.25	44609.25	
16.03	23.7	Supplying, filling, spreading & levelling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of Engineer -in-charge.	29.00	Cum	1538.25	44609.25	
16.04	23.8	Gravel packing in tubewell construction in accordance with IS: 4097, including providing gravel fine/medium/coarse, in required grading & size as per actual requirement, all complete as per direction of Engineer-in-charge.	29.00	Cum	2024.50	58710.50	
16.05	19.17	Replacement of M.S. foot rests in manholes including dismantling concrete blocks and fixing with 20x20x10 cm cement concrete blocks 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size):					
	19.17.2	With 20x20 mm square bar	156.00	each	621.95	97024.20	
16.06	19.19	Providing and fixing in position precast R.C.C. manhole cover and frame.					
	19.19.3	H D - 20					
	19.19.3.1	Circular shape 560 mm internal diameter	12.00	each	1675.70	20108.40	
16.07	23.4	Supplying, assembling, lowering and fixing in vertical position in bore well Unplasticised PVC medium well screen (RMS) pipes with ribs, conforming to IS: 12818, including hire & labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge.					
	23.4.2	150 mm nominal size dia	240.00	metre	807.45	193788.00	
16.08	19.19	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality					
	19.19.1	L D- 2.5					
	19.19.1.1	Rectangular shape 600x450 mm internal dimensions	12.00	each	1437.65	17251.80	

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

S No	DSR 2023 / MR ITEMS	Description of Item	Qty	Unit	Rate	Amount	
						DSR	NON DSR
						All Figures in Rs.	All Figures in Rs.
16.09	19.30	Constructing brick masonry chamber for underground C.I. inspection chamber and bends with bricks in cement mortar 1 : 4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg), R.C.C. top slab with 1: 1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:5:10 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1 : 3 (1 cement : 3 coarse sand), finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design:					
		Inside dimensions 455x610 mm and 45 cm deep for single pipe line :					
	19.30.2	With common burnt clay non-modular bricks of each class designation 7.5	6.00	each	8150.50	48903.00	
16.10	19.32	Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks and S.W. drain pipe 100 mm diameter, 1.0m long complete as per standard design.					
	19.32.1	With common burnt clay non-modular bricks of class designation 7.5	1.00	each	26861.90	26861.90	
		Total Rainwater Harvesting Work				595650.50	0.00
17.00		MISCELLANEOUS WORK					
17.01	MR	MODULAR KITCHEN - UNDER COUNTER STORAGE CABINETS: Providing & fixing factory made modular kitchen cabinets in modular type knockable cabinet boxes with openable shutters and sufficient number of drawers made of 18 mm thk. ISI Marked marine ply, all ply to be laminated with 0.8 mm laminate. All shelves should be supported on approved quality SS pins and shall be adjustable for different heights as per requirements. Shutters and drawers fascia shall be at least 18mm thick with laminate on both sides with 18mm wide 2mm thick PVC edge banding, All Shutters finished in high gloss acrylic of approved. The cabinet boxes of floor units will be supported by 100mm height vertical adjustable legs which will be covered with PVC skirting in brushed aluminum finish attached by hardware of skirting. The unit shall be fixed to the floor/ wall/slab using metal screws of appropriate size and rawl plugs. Only front face area of cabinets and skirting from floor to top of boxes shall be considered for measurement and payment. Cabinet boxes size would be varies from 400X560X710MM to 1000X560X710MM (approx.) and join together as per site requirements etc.	89.00	Sqm	10804.00		961556.00

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

S No	DSR 2023 / MR ITEMS	Description of Item	Qty	Unit	Rate	Amount	
						DSR	NON DSR
						All Figures in Rs.	All Figures in Rs.
17.02	MR	MODULAR KITCHEN - OVERHEAD STORAGE WALL UNITS: Providing & fixing factory made modular kitchen cabinets in modular type knockable cabinet boxes with openable shutters and sufficient number of drawers made of 18 mm thk. ISI Marked marine ply. All ply to be laminated with 0.8 mm laminate. All shelves should be supported on approved quality SS pins and shall be adjustable for different heights as per requirements. Shutters and drawers fascia shall be at least 18mm thk with laminate on both sides with 18mm wide 2mm thick PVC edge banding. All Shutters finished in high gloss acrylic of approved. The unit shall be fixed to the floor/ wall/slab using metal screws of appropriate size and raw plugs. Only front face area of cabinets and skirting from floor to top of boxes shall be considered for measurement and payment. Cabinet boxes size would be varies from 400x560x710MM to 1000x560x710MM (approx.) and join together as per site requirements etc.	11.00	Sqm	8643.00		95073.00
17.03	MR	Providing and fixing of Innotech with metal sides and quadro channels	65.00	Each	3833.00		249145.00
17.04	MR	Providing and fixing of Innotech with metal sides and quadro channels	65.00	Each	4336.00		281840.00
17.05	MR	SLIDING & FOLDING ACOUSTIC PARTITION : Supply & installation of Zilio Lite system of the sliding folding partition type with the following details. Top rail/track: top rail/track shall be proprietary supplied extruded aluminum Profile, finished in approved color anodized finish. Above fixed Mild Steel support Structure: Mild Steel partition above sliding folding panels with 50mm thick rockwool insulation based on the Acoustics required, finish for above support: gypsum cladding shall be provided with necessary cut-outs for services, Mild Steel structure shall be created with the help of Anchor fasteners, Box/square Mild Steel pipes attached to the true slab. Moveable partition Panels : Panels to be filled with necessary infills for acheiving the necessary nrc levels, finished on both sides with MDF, the panels will have retractable Top and Bottom acoustical seals for better acoustics. Panel Mounting: panels shall be mounted over proprietary supplied Zilio Aluminium & Mild Steel, frame work as per Architect/Clients requirement. Suspension :The partition panels shall be suspended on track/rails with the help of top hung mechanism. The top rail shall be fixed/ suspended from the Mild Steel structure using threaded rods. Quote also to include necessary supports, cutting, finishing for the sliding folding partition panel top rail. Parking/Stacking module: the partition panels shall be centre/parallel/side stackable type as per client's requirement. Retractable Operation/Mechanism - Manual Handle operation by an Internal crank jack spindle mechanism. Telescopic panel - Manual handle operation by two different internal crank jack mechanism with lever closer cut teeth gear. ZILIO ZM - W100 Lite - Manual Suspension : 1, Track : 300.001.004, Sound Rating : 46dB, No. of Panels - 8, Total Width : 9800mm, Clear Height : 2550 mm, True Celing Height : NA, Parking Layout : Type A Center stacking, Surface : Laminate Finish	15.00	Sqm	49834.00		747510.00

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S No	DSR 2023 / MR ITEMS	Description of Item	Qty	Unit	Rate	Amount	
						DSR	NON DSR
						All Figures in Rs.	All Figures in Rs.
17.06	MR	ACCESS PANEL: Providing & fixing Access Panel of size mentioned below having - 1. Outer aluminium frame - thickness : 1.5mm (plus 0.2mm thick powder coating) Material : ENAW6063. 2. Inner Aluminium frame - thickness: 1.5mm (plus 0.2mm thick powder coating) Material : ENAW6063. 3. Corner fittings, inner frame - material: Hot dipped galvanized steel plate Thickness 2.0mm, with zinc Coating of 200g. 4. Corner fittings, outer frame - material: Hot dipped galvanized steel plate Thickness 2.0mm, with zinc Coating of 200g. 5. 12mm plasterboard (Knauf Brand) Type: moisture resistant (MR) in green plasterboard liner. 6. Screw (self-drilling black phosphate) - Material: mild steel C1018 - 1022. 7. Sealing strip, width, thickness - width: 9.0mm, thickness: 4.0mm. 8. Snap Lock (spring catch/ catch lock) - Type of lock: touch latch, Material of lock: plastic ABS, cold rolled steel Q235. 9. Hinge - Thickness : 4.0mm, Length: 82mm; Material: SS2172 (cold drawn steel wire). 10. Powder coating - Color: white, RAL 9010					
	4.04A	450x450	15.00	No	3599.00		53985.00
	4.04B	600x600	15.00	No	4333.00		64995.00
	4.04C	300X300	15.00	No	2921.00		43815.00
	4.04D	600x1200	15.00	No	7115.00		106725.00

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S No	DSR 2023 / MR ITEMS	Description of Item	Qty	Unit	Rate	Amount	
						DSR	NON DSR
						All Figures in Rs.	All Figures in Rs.
17.07	MR	BLINDS : Providing & Fixing of Window Blinds as per the approved sample double honeycomb shades having honeycomb within honeycomb with easy rise operating system as per following specifications fabric specifications: • Original Non-woven honeycomb shade shaving soft fabric appearance and high energy-efficient fabric with high tear strength constructed out of Anti-static, resilient, colour fast & Sanitized Treat 100% spun bonded non-woven polyester fiber & precision manufacture to form a hexagonally shaped duette pleat. The Fabric is GREENGUARD certified and can attain an NRC value of 0.75. Certificates to be provided at the time of delivery of material at site. Pleat dimension ¾ "Honeycomb within a Honeycomb" with 3 air pockets for maximum energy efficiency. • Shadings are duotone, with neutral tone facing the exterior and color facing the interior The Head rail. Shall measure 50 wide and 35mm deep & thick 1.25mm extruded from alu. alloy& shall be powder coated to a smooth finish with a thickness of 40 microns. Fabric shall be constructed from spun-bonded polyester fiber, precision manufactured to form a hexagonally shaped, dual pleat, cellular construction. All cords & cord holes shall be fully concealed inside the fabric structure. As each of the hexagonal cells is formed individually, pleats operate independent of each other providing superior pleat retention & structure strength. Installation brackets. shall be of high-tension spring steel suitable for overhead & wall mounting 30mm Duette Hartford mounting bracket. Head rail covered with Sydney Valance of height 80mm made up of Aluminium & L shape moving Rail includes "Click & Engage" method of dimension 50mmx55mmsticked with integrated moving rail magnets provide a streamlined look, reduce centre light gap, and promote easier operation. Polyester cord. Shall be 0.9mm in diameter & of woven hollow core end cap shall be moulded acrylic color matched to the head & bottom rails. Bottom rail shall be a single channel section, measuring 30mm wide and 12.5mmdeep & thickness 1-1.2mm extruded from alu. Alloy & shall be powder coated with a smooth finish to a thickness of 15	81.00	Sqm	20764.00		1681884.00

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S No	DSR 2023 / MR ITEMS	Description of Item	Qty	Unit	Rate	Amount	
						DSR	NON DSR
						All Figures in Rs.	All Figures in Rs.
17.08	MR	Providing & supplying of Window Blinds as per the approved sample in required shade and style consisting of Roller Blinds comprising of optima screen Fabric comprising of 22% polyester, 78% PVC, Fabric weight 460-480G weight per sqm, Thickness 0.67 mm, Yarn count 18-19/cm, having fire resistance standard – NFPA 701-89 small testing ISO-5659-2. The tear resistance should be complying to ISO4674 & breaking resistance – ISO 5081. The DRIVE UNIT shall be of clutch for quick, easy and safe installation, molded plastic with steel spring support and inserted into the tube end. It shall be driven by a ball chain pulley with ball chain and can be positioned at right side or left-hand side of the Shade. The Shade when lowering or raising, shall be automatically locked in position upon release of the ball chain by means of a built-in friction lock. Universal clutch for left- and right-hand operation. Chain Gear Ratio of 1.75:1. The END PLUG shall be molded of plastic with a steel location pin. The plug shall be inserted into the tube end. (Opposite to the Drive Unit) for ease of installation. The SUPPORT BRACKETS shall be of coated steel & provided with covers and used in right hand or left-hand positions differentiated by the acceptance of the of the rectangular drive unit support or the round idler plug pin. Can be installed (a) On Face (b) Ceiling Mount (c) On Frame (d) in Recess. The Bracket should be protruding outside maximum of 80mm. The ROLLER TUBE shall be of extruded aluminium with 37mm internal diameter & skin thickness of 1mm and shall incorporate a keyway integral with the tube to accommodate the spline. The BOTTOM RAIL shall be a Flat Bottom made up of powder coated steel. The BALLCHAIN shall be 2mm diameter cord with 4.5mm diameter acetal balls molded co-axially to it on 6mm pitch to form an endless ball chain. It is used for raising or lowering action of the shades.	724.00	Sqm	2907.00		2104668.00
		Total Miscellaneous Work				0.00	6391196.00

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

SCHEDULE OF QUANTITIES - SANITARY & PLUMBING WORKS							
NAME OF WORK: CONSTRUCTION OF INDIAN BANK OFFICE BUILDING AT AMARVATI, ANDHRA PRADESH							
DSR 2023/ MR	S NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT DSR All Figures in Rs.	AMOUNT NON DSR All Figures in Rs.
MR	1	Supply, Installation, Testing and Commissioning of SINGLE LEVER CONCEALED BASIN MIXER (WALL MOUNTED) WITH SPOUT (COMPOSITE ONE PIECE BODY) LPM should be 2.5 with suitable aerators as per GRIHA norms. Manufacturer should have valid GRIHA certification	EACH	59	16080.00		948719.75
MR	2	Supply, Installation, Testing and Commissioning of TABLE TOP BASIN, SIZE: 630x460x130mm	EACH	59	20890.00		1232510.00
MR	3	Supply, Installation, Testing and Commissioning of suitable compatible WASTE COUPLING 32MM-FULL THREAD- WITH CERAMIC CAP-*130MM HEIGHT *65MM CERAMIC CAP	EACH	59	2398.00		141482.00
MR	4	Supply, Installation, Testing and Commissioning of BOTTLE TRAP (WITH INTERNAL PARTITION) 32mm SIZE WITH 300mm & 190mm LONG WALL CONNECTION PIPES & WALL FLANGE	EACH	59	3284.00		193756.00
MR	5	Supply, Installation, Testing and Commissioning of RIMLESS, BLIND INSTALLATION WALL HUNG WC WITH UF SOFT CLOSE SLIM SEAT COVER, HINGES AND ACCESSORIES SET, SIZE: 375X520X400 MM	EACH	59	15087.00		890133.00
MR	6	Supply, Installation, Testing and Commissioning of PNEUMATIC CONTROL PLATE	EACH	59	6641.00		391819.00
MR	7	Supply, Installation, Testing and Commissioning of ANGULAR STOP COCK WITH WALL FLANGE	EACH	59	4823.00		284557.00
MR	8	Supply, Installation, Testing and Commissioning of CONCEALED STOP COCK WITH ADJUSTABLE WITH WALL FLANGE 15mm	EACH	59	4965.00		292935.00
MR	9	Supply, Installation, Testing and Commissioning of HAND SHOWER (HEALTH FAUCET) WITH 8mm DIA 1.2 METER LONG FLEXIBLE TUBE AND WALL HOOK ALD-CHR-573 or equivalent. LPM should be 3.8 with suitable aerators as per GRIHA norms. Manufacturer should have valid GRIHA certification	EACH	59	2541.00		149919.00
MR	10	Supply, Installation, Testing and Commissioning of PNEUMATIC SINGLE PIECE SLIM CONCEALED CISTERN BODY WITH INSTALLATION KIT & "S-TYPE" DRAIN PIPE CONNECTION SET FOR WALL HUNG WC (WITHOUT FLUSH CONTROL PLATE). This should be as per the GRIHA norms of 2L/4L LPF	EACH	59	8044.00		474596.00
17.28	11	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.					
17.28.2		Flexible pipe					
17.28.2.1		32mm dia	EACH	64	119.55	7651.20	
17.31	12	Providing and fixing mirror of superior glass (of approved quality) complete with 6mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	EACH	59	1607.95	94869.05	
18.53	13	Providing and fixing C.P. brass angle valve for basin mixer and gyser points of approved quality conforming to IS : 8931					
18.53.1		15 mm nominal bore	EACH	240	574.30	137832.00	
17.61	14	Cutting chases in brick masonry walls for following diameter sand cast iron/centrifugally cast (spun) iron pipes and making good the same with cement concrete 1:3:6 (1 cement: 3 coarse sand: 6 graded stone aggregate 12.5 mm nominal size) including necessary plaster and pointing in cement mortar 1:4 (1 cement : 4 coarse sand) :					
17.61.1		100 mm dia	METRE	59	713.20	42078.80	
18.76	15	Cutting holes upto 30x30cm in walls including making good the same.					
18.76.1		With common burnt clay F.P.S. (non modular) bricks	EACH	59	416.80	24591.20	
18.78	16	Making chases upto 7.5 X 7.5 cm in walls including making good and finishing with matching surface after housing G.I. pipe etc.	METRE	59	202.90	11971.10	

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DSR 2023/ MR	S NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT DSR	AMOUNT NON DSR
						All Figures in Rs.	All Figures in Rs.
18.7	17	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.					
		Internal work - Exposed on wall					
18.7.2		20mm nominal outer dia pipes	METRE	450	335.00	150750.00	
18.7.3		25mm nominal outer dia pipes	METRE	300	401.55	120465.00	
18.7.4		32mm nominal outer dia pipes	METRE	200	518.75	103750.00	
18.7.5		40mm nominal outer dia pipes	METRE	100	702.95	70295.00	
18.7.6		50mm nominal outer dia pipes	METRE	100	934.15	93415.00	
18.8	18	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.					
		Concealed work including cutting chases and making good the walls etc.,					
18.8.1		15mm nominal outer dia pipes	METRE	880	497.80	438064.00	
18.8.2		20mm nominal outer dia pipes	METRE	500	537.60	268800.00	
18.8.3		25mm nominal outer dia pipes	METRE	300	627.25	188175.00	
18.8.4		32mm nominal outer dia pipes	METRE	200	739.30	147860.00	
MR	19	Providing, fixing, jointing and testing in position of ISI marked UV stabilized UPVC pipes for soil, waste, and vent, Type-B as per IS : 13592 suitable for rubber ring joints, including all necessary specials and fittings (confirming to IS:14735) i.e. bends, tees, junctions (with or without doors), reducers, WC connectors, couplers, expansion joints / bellows, cowels, clamps, rubber rings, clean outs etc. fixing at wall/ ceiling/ floor level supported by clamp & hangers etc. in concealed / inside duct / under floor & basement ceiling / external work etc. including chase cutting as required, excavation and back filling in all kind of soils, suspended from floor under false ceiling or embedding the pipes laid under floors / building in 75 mm. around 1:2:4 cement concrete (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including cost of shuttering for proper completion of the work, breaking and making good the walls and floors etc. after pipes have been duly laid and tested. The rubber ring shall confirm to IS:5382.					
		The Pipes will be supported with threaded G I rods & U clamps with nuts, washers etc on 50x50x5 mm slotted angle. The cost will include all support arrangements. The work includes commissioning of all pipes lines as per drawings and specifications and as directed by engg-in-charge at site.					
		a 110 mm dia (Wall Thickness - 3.2 to 3.8 mm)	METRE	1150	536.00		616400.00
	b	75 mm dia (Wall Thickness - 3.2 to 3.8 mm)	METRE	200	416.00		83200.00
MR	20	Providing, fixing, jointing and testing in position ISI marked (IS:4985) UPVC pipes of min 6 Kg/ Sqcm rating with fitting for waste pipe from fixtures to floor trap including reduces, enlarger, socket, couplers, bends, tees etc including fixing at wall/ ceiling level supported by clamp & hangers etc. cutting holes in wall/ floors/ slabs and making good the same with cement concrete 1:2:4 complete as required.					
		32 mm dia.	METRE	69	129.00		8901.00
MR	21	Providing & fixing UPVC Floor trap of self cleansing design with stainless steel grating complete in all respects.					

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DSR 2023/ MR	S NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT DSR	AMOUNT NON DSR
						All Figures in Rs.	All Figures in Rs.
		Plain Floor Trap (4" Ht) with 50 / 75 outlet and with height raiser	EACH	155	536.00		83080.00
MR	22	Extra for providing & fixing 125 mm dia C.P. grating in place of C.I. grating over floor traps.	EACH	155	726.00		112530.00
MR	23	Providing & fixing of SS Floor Cleanout , round or square with rubber seal and flat round cover with screws and other required fitting complete as required.	EACH	155	1001.00		155155.00
MR	24	Supply, Installation, Testing and Commissioning of HIGH FLOW SINGLE LEVER CONCEALED DIVERTOR FOR BATH & SHOWER	EACH	31	18938.00		587078.00
MR	25	Supply, Installation, Testing and Commissioning of SPOUT FOR BUILT IN BATH/SHOWER MIXER	EACH	31	9377.00		290687.00
MR	26	Supply, Installation, Testing and Commissioning of OVERHEAD SHOWER 350x350MM ROUND EDGE SQUARE HEAD SINGLE FLOW (BODY & FACE PLATE STAINLESS STEEL WITH CHROME PLATED) WITH RUBIT CLEANING SYSTEM	EACH	31	24100.00		747100.00
MR	27	Supply, Installation, Testing and Commissioning of 15 litre geyser	EACH	50	12004.00		600200.00
MR	28	Supply, Installation, Testing and Commissioning of SOAP DISH HOLDER	EACH	31	4392.00		136152.00
MR	29	Supply, Installation, Testing and Commissioning of TUMBLER HOLDER	EACH	31	4309.00		133579.00
MR	30	Supply, Installation, Testing and Commissioning of TOWEL RACK 600MM LONG WITH LOWER HANGER	EACH	31	15653.00		485243.00
MR	31	Supply, Installation, Testing and Commissioning of ROBE HOOK	EACH	31	2045.00		63395.00
MR	32	Supply, Installation, Testing and Commissioning of TOWEL HOLDER	EACH	31	3336.00		103416.00
17.80	33	Providing and fixing white vitreous china battery based infrared sensor operated urinal of approx. size 610 x 390 x 370 mm having pre & post flushing with water (250 ml & 500 ml consumption), having water inlet from back side, including fixing to wall with suitable brackets all as per manufacturers specification and direction of Engineer-in-charge.	Each	10	7979.20	79792.00	
MR	34	Supply Installation, Testing and Commissioning of Handicap Toilet special fixtures to the complete satisfaction of the engineer in charge					
	(a)	SITC of Grab Bar vertical swing white	Each	5	9867.00		49335.00
	(b)	SITC of Grab Bar Left/Right 90 angle	Each	5	7271.00		36355.00
	(c)	SITC of Grab Bar 842mm long white	Each	5	4664.00		23320.00
18.49	35	Providing and fixing C.P. brass bib cock of approved quality to conforming to IS 8931.					
18.49.1		15 mm nominal bore	Each	59	506.80	29901.20	
18.51	36	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.					
18.51.1		15 mm nominal bore	Each	2	798.95	1597.90	
18.52	37	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS : 8931.					
18.52.1		15 mm nominal bore	Each	69	670.45	46261.05	
		External work					
18.9.6	38	50mm nominal outer dia pipes	M	300	794.25	238275.00	
18.17	39	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end).					
18.17.1A	a	20 mm nominal bore	Each	100	539.95	53995.00	
18.17.1	b	25 mm nominal bore	Each	48	622.40	29875.20	
18.17.2	c	32 mm nominal bore	Each	20	689.60	13792.00	
18.17.3	d	40 mm nominal bore	Each	4	826.10	3304.40	
18.17.4	e	50 mm nominal bore	Each	4	1026.65	4106.60	
18.18	40	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :					
18.18.3	a	25 mm nominal bore	Each	6	464.05	2784.30	

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DSR 2023/ MR	S NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT DSR	AMOUNT NON DSR
						All Figures in Rs.	All Figures in Rs.
18.21	41	Providing and fixing unplasticised PVC connection pipe with brass unions.					
18.21.1	a	30 cm length					
18.21.1.1		15 mm nominal bore	Each	100	85.00	8500.00	
18.48	42	Providing and placing on terrace (at all floor levels) polyethylene water storage tank IS: 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank	Litre	30000	11.00	330000.00	
2.10	43	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :					
2.10.1		All kinds of soil					
2.10.1.2	a	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia.	M	200	352.15	70430.00	
19.4	44	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 X 300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design :					
19.4.1		100 X 100 mm size P type					
19.4.1.2	a	With Sewer bricks conforming to IS : 4885	Each	10	2685.20	26852.00	
19.7	45	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size) inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design :					
19.7.1		Inside size 90 X 80 cm and 45 cm deep including C.I. cover with frame (light duty) 455 X 610 mm internal dimensions total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg):					
19.7.1.2	a	With Sewer bricks conforming to IS : 4885	Each	15	12711.80	190677.00	
19.7.3	46	Inside size 120 X 90 cm and 90 cm deep including C.I. cover with frame (medium duty) 560 mm internal diameter, total weight of cover and frame to be not less than 208 kg (weight of cover 108 kg and weight of frame 100 kg)					
19.7.3.2	a	With Sewer bricks conforming to IS : 4885	Each	1	32719.50	32719.50	
19.8	47	Extra for depth of manholes					
19.8.1		Size 90x80cm					
19.8.1.2	a	With Sewer bricks conforming to IS : 4885	Meter	15	8654.25	129813.75	
19.8.2		Size 120x90cm					
19.8.2.2	b	With Sewer bricks conforming to IS : 4885	Meter	1	10381.45	10381.45	
19.27	49	Constructing brick masonry road gully chamber 50 X 45 X 60 cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) including 500 X 450 mm precast R.C.C. horizontal grating with frame complete as per standard design :					
19.27.1	a	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	20	5957.90	119158.00	

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DSR 2023/ MR	S NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT DSR	AMOUNT NON DSR
						All Figures in Rs.	All Figures in Rs.
MR	50	Supply, Installation, testing and commissioning of Domestic Water Pumps(to lift water from underground domestic water tank to terrace tank of building)Location - Near underground water tank with Level Controller with sufficient nos. of low / high level alarms, contacts with electrodes and control wiring for the automatic operation of all water supply pumps to achieve the functional requirement shall be provided. Control wiring between these pumps and water tanks shall be provided. Raw water pumps must start at low level of water in underground domestic water tank & stop at high water level in that tank. Dry running protection shall be provided for all the pumps.All water supply to operate automatically through level controller.					
(a)		Capacity 1 LPS each minimum					
		Head 30 Mts.					
		RPM 2800 / 2 HP					
		No. of pumps 1	nos.	2	17000.00		34000.00
	51	SUBMERSIBLE SUMP PUMPS FOR PLANT ROOM DRAINAGE (Location : Basement of the Building)					
MR	a	Supplying, Installation, Testing & Commissioning of dewatering single stage submersible non clog type (Capable of solid handling of 20 mm diameter) self priming of suitable HP pump with casing in SS., Impeller in SS & shaft in SS with auto level controls (to stop at Low Level and to Start at High Level in the sump) having discharge of 250 LPM at 12 Mtr head complete with all accessories suitable for operation on 230 Volt 3 phase 50hz AC supply as required for plant room. The pump shall be inclusive of strainer, sluice/gate valve, non return valve, float switch,...Etc					
		Flow Rate =250 LPM					
		Head = 12M					
		HP - as per maufacturer recommendations.					
		Quantity (Set=1 Working + 1 Standby)					
	b	Control panel, configuration with all standard feature like , contactor ,relays, MCB Tp, Amp-meter, volt meter, single phase / Three phase preventer , over load, dry run protection, Start, Stop, Indicators, Auto, manual, Sequential, timer etc. all of reputed make like: L&T/ Schneider/Eqv					
	c	Installation testing & commissioning of pump					
	d	Cable 2x 1.5 squire mm (Supply and lying /Terminating).					
	e	Ø 50mm GI pipe (Make Pipe JINDAL/SURYA) with Ø50 mm 1No Ball valve, 1 No NRV Ø 50mm. (Make: SANT/ZALOTO).	nos.	2	165419.00		330838.00
12.41	52	Providing and Fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS: 5382, leaving 10mm gap for thermal expansion, (i) Single socketed pipes.					
12.41.2	a	110 mm diameter	Metre	200	377.40	75480.00	
12.42	53	Providing and fixing on wall face unplasticised PVC moulded fittings/ accessories for unplasticized Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS: 5382, leaving 10mm gap for thermal expansion.					
12.42.1	a	Coupler					
12.42.1.2		110mm	Each	67	136.15	9122.05	
12.42.5	b	Bend 87.5					
12.42.5.2		110mm bend	Each	16	150.35	2405.60	
12.42.6	c	Shoe (Plain)					
12.42.6.2		110mm shoe	Each	8	131.85	1054.80	

Contractor

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Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

DSR 2023/ MR	S NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT DSR	AMOUNT NON DSR
						All Figures in Rs.	All Figures in Rs.
12.43	54	Providing and fixing unplasticised PVC pipe clips of approved design to unplasticized PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete					
12.43.2	a	110mm	Each	133	371.30	49382.90	
12.44	55	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams	Each	20	54.70	1094.00	
19.1	56	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :					
19.1.2	a	150 mm diameter	meter	160	695.80	111328.00	
19.1.3	b	200 mm diameter	meter	160	970.35	155256.00	
19.2	57	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design :					
19.2.2	a	150 mm diameter S.W. pipe	meter	160	1179.85	188776.00	
19.2.3	b	200 mm diameter S.W. pipe	meter	160	1375.45	220072.00	
19.3	58	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) up to haunches of S.W. pipes including bed concrete as per standard design					
19.3.2	a	150 mm diameter S.W. pipe	meter	160	743.10	118896.00	
19.3.3	b	200 mm diameter S.W. pipe	meter	160	873.50	139760.00	
19.6	59	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :					
19.6.2	a	150 mm dia. R.C.C. pipe	meter	10	556.45	5564.50	
19.6.3	b	250 mm dia. R.C.C. pipe	meter	10	899.80	8998.00	
19.6.4	c	300 mm dia. R.C.C. pipe	meter	10	994.30	9943.00	
MR	60	Supply, Installation, Testing and Commissioning of Sensor based basin mixer wall mounted. LPM should be 2.5 with suitable aerators as per GRIHA norms. Manufacturer should have valid GRIHA certification	EACH	25	11845.00		296125.00
MR	61	Supply, Installation, testing and Commissioning of Touch free infrared hand dryer	Each	15	40050.00		600750.00
MR	62	Supply, Installation, testing and Commissioning of Automatic soap dispenser	Each	59	3400.00		200600.00
MR	63	Supply, Installation, Testing and Commissioning of Toilet Paper Holder with flap	Each	59	1530.00		90270.00
MR	64	Supply, Installation, Testing and Commissioning of Wall Mounted Paper Towel Dispenser	Each	15	5312.50		79687.50

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

DSR 2023/ MR	S NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT DSR	AMOUNT NON DSR
						All Figures in Rs.	All Figures in Rs.
MR	65	Supply, Installation, Testing and Commissioning of Electromagnetic Flow Meter/ Water Meter having the following specs suitable for pipes upto 50 mm dia pipes: Rubber Lining Transmitter: Die Cast Aluminium IP66 Power Supply: 90 – 265 VAC Outputs: 4-20 mA , Pulse, RS485 MODBUS Process Pressure: 10 Bar Sensor Terminal Housing: C.S Fabricated IP65 Display: Remote Display With 5 meter Wire Flange: ASA #150 C.S Electrode: SS316L Grounding Electrode: SS316L Flow Tube: SS304 Coil Housing: C.S Protection Class: IP-66	each	4	25300.00		101200.00
		TOTAL				4419916.55	11049023.25

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

SCHEDULE OF QUANTITIES - ELECTRICAL WORKS							
S NO	DSR E&M 2025/ MR	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	AMOUNT
						DSR	NON DSR
						All Figures in Rs.	All Figures in Rs.
A		POINT WIRING					
A.1	1.10	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable etc. as required					
	1.10.3	Group C	Point	661	1704.00	1126344.00	
A.2	1.55	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS/HFFR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS/HFFR PVC insulated copper conductor single core cable etc. as required.					
	1.55.3	Group C	Point	991	994.00	985054.00	
A.3	1.12	Wiring for light/ power plug with 2X4 sq. mm FRLS/HFFR PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit along with 1 No. 4 sq. mm FRLS/HFFR PVC insulated copper conductor single core cable for loop earthing as required.	Metre	20940	373.00	7810620.00	
A.4	1.24	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.					
	1.24.1	5/6 amps switch	Each	2	121.00	242.00	
	1.24.3	15/16 amp switch	Each	2	176.00	352.00	
	1.24.4	3 pin 5/6 amp socket outlet	Each	2	136.00	272.00	
	1.24.5	6 pin 15/16 amp socket outlet	Each	2	219.00	438.00	
	1.24.8	Bell Push	Each	2	159.00	318.00	
A.5	1.26	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	50	47.00	2350.00	
A.6	1.27	Supplying and fixing following size/ modules, GI box along with modular base & cover plate for modular switches in recess etc. as required.					
	1.27.1	1 or 2 Module	Each	50	354.00	17700.00	
	1.27.2	3 Module	Each	10	384.00	3840.00	
	1.27.3	4 Module	Each	80	401.00	32080.00	
	1.27.4	6 Module	Each	80	462.00	36960.00	
	1.27.5	8 Module	Each	50	517.00	25850.00	
	1.27.6	12 Module	Each	50	614.00	30700.00	
A.7	1.11	Wiring for twin control light point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, 2way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable etc. as required.	Each	20	1803.00	36060.00	
A.8	1.31	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required.	Each	508	545.00	276860.00	
A.9	1.32	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.	Each	190	659.00	125210.00	

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Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

SCHEDULE OF QUANTITIES - ELECTRICAL WORKS							
S NO	DSR E&M 2025/ MR	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	AMOUNT
						DSR	NON DSR
						All Figures in Rs.	All Figures in Rs.
A.10	1.56	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 2 nos. 3 pin 5/6 A modular socket outlet and 2 nos. 5/6 A modular switch, connections etc. as required. (For light plugs to be used in non residential buildings).	Each	225	757.00	170325.00	
A.11	1.57	Supplying & fixing suitable size GI box with modular plate and cover in front on surface or in recess including providing and fixing 25 A modular socket outlet and 25 A modular SP MCB, "C" curve including connections, painting etc. as required.	Each	1	807.00	807.00	
B		SUBMAIN AND CONTROL WIRING					
B.1	1.14	Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS/HFFR PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.					
	1.14.1	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	Metre	1000	267.00	267000.00	
	1.14.2	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	Metre	7500	311.00	2332500.00	
	1.14.3	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	Metre	10	373.00	3730.00	
	1.14.4	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	Metre	200	482.00	96400.00	
	1.14.10	4 X 10 sq. mm + 2 X 6 sq. mm earth wire	Metre	450	1078.00	485100.00	
	1.14.11	4 X 16 sq. mm + 2 X 6 sq. mm earth wire	Metre	450	1454.00	654300.00	
C		CABLES					
C.1	11.1	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.					
	11.1.21	3½ X 35 sq. mm (32mm)	Each	4	437.00	1748.00	
	11.1.22	3½ X 50 sq. mm (35mm)	Each	4	484.00	1936.00	
	11.1.23	3½ X 70 sq. mm (38mm)	Each	8	542.00	4336.00	
	11.1.24	3½ X 95 sq. mm (45mm)	Each	4	684.00	2736.00	
	11.1.25	3½ X 120 sq. mm (45mm)	Each	12	710.00	8520.00	
	11.1.33	4 X 16 sq. mm (28mm)	Each	60	366.00	21960.00	
	11.1.30	3½ X 300 sq. mm (70mm)	Each	16	1336.00	21376.00	
		LT CABLES					
C.2	MR	Supply of following XPPE armoured 1.1 KV grade conforming to I.S.7098/1554 Aluminium Conductor Cables :					
		Supply of following sizes of PVC sheathed PVC/XLPE insulated Aluminium conductor armoured cable of 1.1 KV grade conforming to IS:7098 part-1 / IS:1554 part-1 respectively & ISI marked.					
(a)		3.5 C x 120 Sqmm XLPE cable	RM	200	1347.50		269500.00
(b)		3.5 C x 95 Sqmm XLPE cable	RM	100	1080.00		108000.00
(c)		3.5 C x 70 Sqmm XLPE cable	RM	50	850.00		42500.00
(d)		3.5 C x 50 Sqmm XLPE cable	RM	50	637.50		31875.00
(e)		3.5 C x 35 Sqmm XLPE cable	RM	50	472.50		23625.00
(f)		3.5 C x 300 Sqmm XLPE cable	RM	200	3628.75		725750.00
(g)		4 C x 16 Sqmm XLPE cable	RM	200	262.50		52500.00

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S NO	DSR E&M 2025/ MR	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	AMOUNT
						DSR	NON DSR
						All Figures in Rs.	All Figures in Rs.
C.3	MR	Supply of following sizes of copper cables -PVC sheathed PVC/XLPE insulated Copper conductor armoured cable of 1.1 KV grade conforming to IS:7098 part-1 / IS:1554 part-1 respectively & ISI marked.					
(a)		4 C x 16 Sqmm XLPE copper cable	RM	250	1807.50		451875.00
(b)		4 C x 25 Sqmm XLPE copper cable	RM	100	2816.25		281625.00
(c)		3.5 C x 35 Sqmm XLPE copper cable	RM	50	3357.50		167875.00
(d)		3.5 C x 50 Sqmm XLPE copper cable	RM	50	4030.00		201500.00
C.4	10.1	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.					
	10.1.1	Upto 35 sq. mm	Meter	200	453.00	90600.00	
	10.1.2	Above 35 sq. mm and upto 95 sq. mm	Meter	100	475.00	47500.00	
	10.1.3	Above 95 sq. mm and upto 185 sq. mm	Meter	100	497.00	49700.00	
	10.1.4	Above 185 sq. mm and upto 400 sq. mm	Meter	200	564.00	112800.00	
D		DB					
D.1	2.11	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	Each	100	14.00	1400.00	
D.2	2.10	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
	2.10.1	Single pole	Each	900	285.00	256500.00	
D.3	MR	Supplying and fixing following rating, four pole, 415 volts, MCB in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
a	MR	40 amps	Each	16	1364.00		21824.00
b	MR	63 amps	Each	20	1820.00		36400.00
D.4	2.4	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/ RCCB/ Isolator)					
a	2.4.3	8 way (4 + 24), Double door	Each	6	6337.00	38022.00	
b	MR	12 way (4 + 36), Double door	Each	30	9081.00		272430.00
D.5	2.14	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
a	2.14.1	25 amps	Each	10	2141.00	21410.00	
b	2.14.2	40 amps	Each	48	2512.00	120576.00	
c	2.14.3	63 amps	Each	60	2866.00	171960.00	
D.6	2.3	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)					

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SCHEDULE OF QUANTITIES - ELECTRICAL WORKS							
S NO	DSR E&M 2025/ MR	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	AMOUNT
						DSR	NON DSR
						All Figures in Rs.	All Figures in Rs.
a	2.3.3	12 way, double door	Each	8	2871.00	22968.00	
E		PROVISIONS FOR VOICE, DATA, SECURITY & TV SYSTEMS					
E.1	1.24	Supplying and fixing following modular switch / socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.					
a	1.24.6	Telephone socket outlet	Set	160	168.00	26880.00	
b	1.24.7	TV antenna socket outlet	Set	36	168.00	6048.00	
E.2	1.19	Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/recessed steel/ PVC conduit as required	Meter	1080	54.00	58320.00	
E.3	1.21	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.					
a	1.21.2	25mm	Metre	5880	168.00	987840.00	
E.4	1.18	Supplying and drawing following pair 0.5 mm dia FRLS/HFFR PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.					
a	1.18.2	2 Pair	Metre	4800	39.00	187200.00	
E.5	1.25	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	Each	32	402.00	12864.00	
E.6	1.45	Installation, Testing and Commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS/HFFR PVC insulated, copper conductor, single core cable, including providing and fixing phenolic laminated sheet cover on the fan box etc. as required.	Each	32	332.00	10624.00	
E.7	1.50	Installation, Testing and Commissioning of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required.					
a	1.50.1	Upto 450 mm sweep	Each	31	556.00	17236.00	
E.8	1.51	Extra for fixing the louvers/ shutters complete with frame for a exhaust fan of all sizes.	Each	31	260.00	8060.00	
E.9	9.1	Brush Less Direct Current (BLDC) Fan with Remote Supply, Installation, Testing and Commissioning of ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. metal(Aluminium alloy) blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, steel/Al body. Power Factor not less than 0.9, Service Value (CM/M/W) minimum as below, 350 RPM (tolerance as per IS : 374-2019), THD (Total Harmonic Distortion) less than 10%, remote (preferably mobile app based) for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 0C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC supply Ceiling Fan compliant to IS 374:2019 fan i/c external connections with 1.5 sq.mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required.					
a	9.1.3	1200mm, service value ≥ 6.0 CM/Min/Watt, air delivery 210 CM/Min (Minimum)	Each	32	2882.00	92224.00	
E.10	MR	Supply of Exhaust Fan 300 mm	Each	31	3500.00	108500.00	
E.11	Civil DSR 10.17	Providing and fixing M.S. Fan clamps of 16 mm dia M.S. bar, bent to shape with Hooked ends in R.C.C. slabs or beams during laying, including painting the exposed portion of loop, all as per standard design complete	Each	32	226.00	7232.00	

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SCHEDULE OF QUANTITIES - ELECTRICAL WORKS							
S NO	DSR E&M 2025/ MR	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	AMOUNT
						DSR	NON DSR
						All Figures in Rs.	All Figures in Rs.
E.12	Civil DSR 10.18	Providing and fixing circular/Hexagonal G.I. Box for ceiling fan clamps, of internal dia 140 mm, 73 mm height, top LID of 1.5 mm thick G.I. sheet with its top surface hacked for proper bonding, top LID shall be screwed into the G.I. box by means of 3.3 mm dia rounded screws, one lock at the corners. Clamps shall be made of 12 mm dia M.S. bar bent to shap as per standard drawing.	Each	32	220.65	7060.80	
E.13	39.18	Supplying, drawing, Testing and commissioning of Cat6A UTP 4 pair, 23 AWG solid copper cable in existing conduit/ on surface, U/FTP, LSZH, Non-Plenum, Horizontal (solid) Cable suitable for high speed data networking application supporting upto 10Gbps over a 100 meter channel. The 4 Unshielded Twisted Pairs (UTP) cable with color coded insulation for easy indentification should have FLAME PROPERTIES i.e. Flammability Test - IEC 60332-1, Smoke Density - IEC 61034, LSZH standards compliance: ANSI/TIA-568 C.2, ISO/IEC 11801, IEEE 802.3an, RoHS. Delay Skew should be < 45NS. The outer Cable Diameter should be 7.5 + 2 mm. Cable should have been tested and verified by UL/ ETL etc. complete as required.					
	39.18.2	2 Run of cable	Meter	100	124.00	12,400.00	
E.14	MR	Supply, Installation, Testing and Commisioning of Galavanized Iron (GI) Raceways along with required suitable number of GI couplers for joining raceways and fixing GI brackets and all accessories complete in all respect as per the directions of engineer in charge					
(a)		300mmx38mm(GI) - 3 compartment	Mtr	100	2172.50		217250.00
(b)		225mmx38mm(GI) - 3 compartment	Mtr	80	1775.00		142000.00
(c)		150mmx38mm(GI)	Mtr	100	1086.25		108625.00
(d)		100mmx38mm(GI)	Mtr	50	822.50		41125.00
(e)		75mmx38mm(GI)	Mtr	60	688.75		41325.00
(f)		50mmx38mm(GI)	Mtr	300	688.75		206625.00
E.15	MR	Supply, Installation, Testing and Commisioning of Junction boxes for direct access to cables at the intersection of raceways supplied completely with base and cover plates, height adjustable junction box 65- 90 mm including all accessories ss plate of 3mm thick complete in all respect as per the directions of engineer in charge					
(a)		300x 300 x 65-90 mm	Each	30	1348.75		40462.50
(b)		225x 225x 65-90 mm	Each	25	1078.75		26968.75
(c)		150x 150 x 65-90 mm	Each	140	900.00		126000.00
F		EARTHING					
F.1	5.4	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 Meter long etc. with charcoal/ coke and salt as required.	SET	4	8351.00	33404.00	
F.2	5.14	Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required.	MTR	100	1246.00	124600.00	
F.3	5.15	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	MTR	100	287.00	28700.00	
F.4	5.16	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	MTR	200	84.00	16800.00	

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

SCHEDULE OF QUANTITIES - ELECTRICAL WORKS							
S NO	DSR E&M 2025/ MR	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	AMOUNT
						DSR	NON DSR
						All Figures in Rs.	All Figures in Rs.
G		PANEL BOARDS					
G.1	MR	HVAC Panel					
		Designing, fabricating, transporting, unloading, storing, fixing in position, testing and commissioning the following sheet steel cubicle type panels fabricated from 1.6mm thick CRCA sheet, dust and vermin proof, outdoor type double door with canopy, TPN Panels with hinged lockable doors fabricated from 2mm thick CRCA sheet, suitable for 415V, 3 phase 4 wire 50Hz AC supply with rear access for cable alley and with segregated bus-bar chamber with tinned aluminium bus bar and including supplying and fixing following switchgears, meters and accessories, inter-connections, bonding to earth, powder coated painting and marking as specified. Switch boards complete as per schematic diagram:					
		Type of construction: Form 3					
		IP classification: 42					
		The LT PANEL shall be electrically inter-locked as shown in Schematic diagram and as detailed in the Specifications					
		Colour: Gray Powder Coated, as per approved sample.					
		Incomings:					
		1nos 800A FP electrically operated draw-out type ACB with microprocessor-based relay for O/L, S/C and E/F protection with time delay facility and fault type indication, with Reverse Power Relay and three phase indicating lamps, 1no 96mm x 96mm multi parameter digital meter with LCD display for Voltage, Current, Frequency, Power, Energy, Power factor, RS 485 port for connection to BMS system and set of suitably sized CTs including protection with 2A HRC fuses and suitable number of auxiliary contacts for electrical interlocking as described.					
		Bus Bars:					
		TPN aluminum bus bars of minimum of 1000 Amps capacity with heat shrinkable colored sleeves and I/C DMC/SMC bus bars supports at required intervals complete for cross section, size supports & their spacing etc. for withstanding fault level of 25 MVA for 1 Sec.					
		Outgoings:					
		(a) 63 Amps, TPN, MCB +ELCB - 20 Nos.					
		(b) 40 Amps, TPN, MCB +ELCB - 10 nos					
		Panel complete as above	Each	1	425000.00		425000.00

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

SCHEDULE OF QUANTITIES - ELECTRICAL WORKS							
S NO	DSR E&M 2025/ MR	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	AMOUNT
						DSR	NON DSR
						All Figures in Rs.	All Figures in Rs.
G.2	MR	Floor Panel					
		Designing, fabricating, transporting, unloading, storing, fixing in position, testing and commissioning the following sheet steel cubicle type panels fabricated from 1.6mm thick CRCA sheet, dust and vermin proof, outdoor type double door with canopy, TPN Panels with hinged lockable doors fabricated from 2mm thick CRCA sheet, suitable for 415V, 3 phase 4 wire 50Hz AC supply with rear access for cable alley and with segregated bus-bar chamber with tinned aluminium bus bar and including supplying and fixing following switchgears, meters and accessories, inter-connections, bonding to earth, powder coated painting and marking as specified. Switch boards complete as per schematic diagram:					
		Type of construction: Form 3					
		IP classification: 42					
		The LT PANEL shall be electrically inter-locked as shown in Schematic diagram and as detailed in the Specifications					
		Colour: Gray Powder Coated, as per approved sample.					
		Incomings:					
		1 nos, 200 Amps. 4 pole MCCB , i.e four pole Moulded Case Circuit Breaker of fault breaking capacity 25 KA (ICS=ICU up to 433 V) complete in all respect					
		Bus Bars:					
		TPN aluminum bus bars of minimum of 250 Amps capacity with heat shrinkable colored sleeves and I/C DMC/SMC bus bars supports at required intervals complete for cross section, size supports & their spacing etc. for withstanding fault level of 25 MVA for 1 Sec.					
		Outgoings:					
		(a) 63 Amps, TPN, MCB - 4 Nos.					
		(b) 40 Amps, TPN, MCB - 4 nos					
		Panel complete as above	Each	8	225000.00		1800000.00
H		SAFETY ITEMS					
H.1	2.21	Providing and fixing MV danger notice plate of 200mm x 150mm made of mild steel, atleast 2 mm thick, and vitreous enamelled white on both sides and with iscription in single red colour on front side as required	Nos.	10	315.00	3150.00	

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

SCHEDULE OF QUANTITIES - ELECTRICAL WORKS							
S NO	DSR E&M 2025/ MR	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	AMOUNT
						DSR	NON DSR
						All Figures in Rs.	All Figures in Rs.
H.2	26.2	Online UPS- Input supply: Three Phase, Output supply: Three Phase- Supplying, installation, Testing & Commissioning of following capacity at full load (Unity Power Factor) at operating temperature 0 to 40 0C, Relative humidity 0 to 95%, Online double conversion true sine wave Uninterrupted hot swappable (allow for the replacement or addition of battery modules without shutting down the entire system) modular Power Supply (UPS) system with N+1 modules (N denotes total number of modules required for rated capacity). The UPS shall include a Rectifier, inverter, battery bank suitable for 30 minutes back up (Battery VAH capacity shall not be less than 1600 VAH per KVA of UPS rating per Hour backup time) on full load (Battery shall be VRLA, SMF in ABS Container) and Static Bypass switch along with provision for manual bypass, suitable isolation transformer for additional protection against neutral faults etc. UPS shall have inbuilt phase sequence correction. The UPS systems offered are to be of the latest technology with Digital Control microprocessor based for reliable operation using Insulated Gate Bipolar Transistor (IGBT)'s both for the rectifier & inverter (3 Level) with PWM (Pulse Width Modulation). The quality of design, manufacturing and inspection process should confirm to the relevant Inter-national standards such as IEC/EN/VDE. The operating efficiency of the UPS systems shall be >96% while operating on battery mode and delivering quality power to the 100% non-linear loads. Current total harmonic effect(ITHD) on the input grid shall be < 5% at 50 %load. (The required LC (inductor (L) and a capacitor (C)) filters shall be included in UPS cost), extreme power factor kit to be included to limit the input power factor (PF) to 0.99 and output power factor shall be unity (i.e. kw rating of the UPS shall be kva rating x 1), however UPS shall be suitable to take load at 0.7 lagging to 0.7 leading power factor loads. UPS shall be suitable for incoming supply AC : 3Phase 400V +/-20%, 50 Hz +/-5 Hz, AC Output voltage: 3Phase 415 Volt, 50 Hz +/- 0.2Hz, Overload capacity of 120% for 10 mins, Sine wave output. Non condensing, noise level less than 60db at 1 meter distance, protections: Input Under voltage over voltage, abnormal out voltage, battery over charging, output over current, short circuit protection, battery deep discharge protection, 10KV surge. UPS must comply with low voltage electromagnetic compatibility (EMC) achieved as per EN 6204, EN6204 Part I and Part 2, it shall be a Voltage and Frequency Independent (VFI)-type UPS. Communication RS232/ RS485/ SNMP port open protocol for BMS integration, all hardware & software for IoT Communication as per approved by Engineering in charge. Required battery racks and interconnecting copper conductor cables of suitable size and connectors and all required accessories are inclusive of the cost).					

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

SCHEDULE OF QUANTITIES - ELECTRICAL WORKS							
S NO	DSR E&M 2025/ MR	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	AMOUNT
						DSR	NON DSR
						All Figures in Rs.	All Figures in Rs.
		This system must provide a means for logging and alarming of all monitored points plus email notification. Forced air-cooling with integral inbuilt fans with redundancy (if one fan fail UPS should be able to handle at least 80% of the load, Noise Level 65 DB at 1 meter distance. The system shall be in compliance IEC 62040- 1,2 & 3, IS: 16242 and CPWD Specification. Display Panel (minimum) (In-build 5 inch or more LC Display/ LED) to display : a) Input: Voltage, current, Frequency. b) Bypass: Voltage, Frequency. c) Output: Voltage, frequency, Current. d) Battery: Voltage, Capacity. e) Load: KVA, KW, Percentage. f) Temperature: STS, Inverter, PFC. g) Event Logging & Statistical Data (On LCD/LED): UPS should capture and display up to 3000 events like: Over temperature / DC Bus Fail / Fan Fail / Fuse Fail / Overload / Short-circuit / Device Fail / Inverter Fail / Rectifier Fail / Bypass Fail, etc. h) Statistical Data: No. of power failures / Transfers to Bypass / Total Running time, etc. i) Mains Mode of Operation /Battery Mode of Operation / Bypass feeding the load / UPS Fault /Battery charging and discharging, overload, battery voltage and battery capacity. j) Audible Alarms : Mains Failure, Battery Low Alarm, UPS Overload, Fault, Shutdown, Input Over, Under Voltage, Output Over, Under Voltage, Battery Over, Under Voltage, Over Load and short circuit, Over Temperature. The UPS should have QR code which should contain drawing, test report OEM manual, Geo- Tag of manufacturing location etc					
a	26.2.3	30KVA (Each Power module shall be ≤ 10 KVA)	Nos.	3	505748.00	1,517,244.00	
H.3	MR	Supplying, installation, testing and commissioning of 6 meter Height hot dipped galvanized pole continuously tapered (bolt fixing type) octagonal Pole with top 70 mm dia and bottom 130 mm dia made of 3 mm thick H T sheet Steel conforming to grade S 355 complete with G I base plate of size 220 mm (L) X 220 mm (B) X 16 mm thickness welded at bottom of pole complete with 4 Nos 20 mm dia 600 mm long foundation bolts conforming to EN 8 grade, inbuilt / Vandal resistance, weathproof electrical junction box having terminal block, 32A 4P MCB in incomer & 16A DP MCB in outgoing for Pole Light ON/ OFF etc mounted on bakelite sheet for looping in /looping out of cables, with flush door having locking arrangement, earthing arrangement (at atleast 0.5 m height) and mounted on RCC foundation of size 500 mm x 500 mm x 1200 mm in ground and 300 mm above ground level with foundation bolt duly embeded before casting and supply and embedding of suitable size HDPE pipe sleeve for cable entry. complete including erection of Pole complete in all respect as per specification as reqd.	Each	15	15000.00		225000.00
H.4	MR	Supply, Installation, testing and commissioning of 500mm long Single arm bracket of approved design and shape made up of MS metal with hot dip galvanised suitable for pole top of 70mm dia complete with fixing arrangement as required	Each	15	2000.00		30000.00
H.5	NS/MR	Supplying & drawing 3x2.5sq.mm size FR PVC insulated copper conductor single core cable in the existing pipe as required	Meter	150	400.00		60000.00

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

SCHEDULE OF QUANTITIES - ELECTRICAL WORKS							
S NO	DSR E&M 2025/ MR	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	AMOUNT
						DSR	NON DSR
						All Figures in Rs.	All Figures in Rs.
I		RISING MAIN					
I.1	3.8	Supplying, installation on wall, testing and commissioning of following capacity Air Insulated Compact Type Rising Mains for use on 3 phase 4 wire 415 volts, 50Hz A.C. supply with enclosure having IP-54 rating after fixing the tap off boxes and all accessories, made of 1.6mm thick steel sheet duly powder coated in convenient sections complete with 4 Nos aluminium bus bars having current density of 130 A/ sq cm at nominal current rating, necessary joints & expansion joints, fire barrier at each floor, provision of tapping at every metre, continuous earthing with 2 Nos aluminium strip of suitable size (one on each side) including, G.I. clamping brackets, angle iron bracket, steel fasteners, connecting to earthing system etc. as required.					
	3.8.5	630 A, Isc = 50kA for 1 second	Meter	30	13584.00	407520.00	
I.2	3.11	Supplying, installation, testing & commissioning of following capacity End Feed Unit for the existing Air Insulated Compact Type bus trunking/ rising mains for use on 3 phase 4 wire 415 volts, 50Hz A.C. supply made with 1.6mm thick steel sheet enclosure (IP54) duly powder coated with provision of MCCB/ACB (but without MCCB/ACB) complete with necessary joints including clamping brackets, angle iron bracket, steel fasteners, connecting to earthing system etc. as required					
	3.11.5	630 A, Isc= 50kA for 1 sec	Each	2	14120.00	28240.00	
I.3	3.12	Supplying, installation, testing & commissioning of following capacity Plug In/ tap off box on the existing Air Insulated Compact Type bus trunking/ rising mains for use on 3 phase 4 wire 415 volts, 50Hz A.C. supply made with 1.6mm thick sheet steel enclosure (IP54) duly powder coated with provision of MCCB/ACB (but without MCCB/ACB) complete etc. as required					
	3.12.2	200 A, Isc= 25kA for 1 sec	Each	8	9104.00	72832.00	
		Total of Electrical items				19292438.80	6177660.25

Contractor

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Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

SCHEDULE OF QUANTITIES: HVAC							
S No	DSR E&M 2025/MR	Description	Unit	Quantity	Rate	Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
1	31.3	VRF OUTDOOR UNIT: Supply, Installation, Testing & Commissioning of Modular type Variable Refrigerant Flow/Variable Refrigerant Volume air cooled Outdoor units suitable for cooling/heating having 100% hermetically sealed inverter type twin Rotary/Scroll Compressor(s), minimum two compressors (with individual separate PCB) for above 14HP modules, microprocessor based Controller, top discharge type condensing unit(s), with R-410-A Refrigerant or equivalent, vibration Isolators with suitable foundation etc. complete as required. To have better efficiency condenser fan shall be capable to operate at different speed with respect to load. The unit shall deliver the rated capacity and in confirmation as per IS 18728:2024 and CPWD Specifications and work even at 50°C ambient temperature without tripping. The system shall be able to deliver 100% of the rated capacity upto 39 Degree Celcius. The unit shall be suitable to work on 400V +/- 10%, 3 Phase, 50Hz AC power supply and BMS compatible. The unit shall be filled with first charge of the refrigerant and ready for use as required. The condenser should be coated with a hydrophilic film to prevent water accumulation on the surface of the heat exchanger, enhance water dispersion, and reduce the risk of degradation, thereby improving overall performance and durability. The Indian Seasonal Energy Efficiency Ratio (ISEER) of the unit shall be as per Energy Conservation and Sustainable Building Code (ECSBC) 2024 as below and complete as per CPWD specification, connections, inter connections etc. as required. (For capacity <40 kW ISEER 7.4, Capacity > 40 and <70 ISEER 7.5, Capacity > 70 ISEER 7.6 for Super ECSBC Building) For Cooling or Heating or Both					
a	31.3.3	14 HP to 22 HP	per HP	300	21,659.00	6,497,700.00	
2	31.8	VRF INDOOR UNITS: Supply, Installation, Testing and Commissioning of following minimum capacity High wall type Indoor unit equipped with and comfort washable synthetic media pre-filter, fan section with low noise fan/dynamically balanced blower, multispeed motor, coil section with DX copper coil, electronic expansion valve, outer cabinet, cord less remote control, drain pan, necessary accessories etc., suitable for operation on 230 V ± 10%, 50 Hz, single phase AC supply, complete as required. The Indoor units must shut down upon receiving a signal from the BMS System/Fire Signals. The system shall be capable to adjust air flow as per room requirement automatically. The cooling capacity of indoor unit will be at air inlet conditions of 27 Degree C DB and 19 Degree C WB temperature. (Make will be same as of Outdoor)					
a	31.8.1	0.6 TR	Nos	2	16,790.00	33,580.00	
b	31.8.3	1.0 TR	Nos	1	17,816.00	17,816.00	
c	31.8.5	1.6 TR	Nos	28	22,027.00	616,756.00	
d	31.8.6	2.0 TR	Nos	5	22,674.00	113,370.00	

Contractor

G. T. ...

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Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

SCHEDULE OF QUANTITIES: HVAC							
S No	DSR E&M 2025/MR	Description	Unit	Quantity	Rate	Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
3	31.6	Supply, Installation, Testing and Commissioning of following minimum capacity Single way wall/corner VRV/VRF Cassette Type Indoor ceiling mounted unit equipped with synthetic washable media pre-filter, fan section with low noise fan/dynamically balanced blower, multispeed motor, coil section with DX Copper coil, electronic expansion valve, outer cabinet, drain pump, grill, necessary supports, vibration Isolation, Corded remote control etc., suitable for operation on single phase 230 V $\pm$ 10%, 50Hz AC supply, complete, as required. The Indoor units must shut down upon receiving a singal from the BMS System/Fire Signals. The system shall be capable to adjust air flow as per room requirement automatically. The cooling capacity of indoor unit will be at air inlet conditions of 27 Degree C DB and 19 Degree C WB temperature. (Make will be same as of Outdoor)					
a	31.6.1	0.6 TR	Nos	1	30,233.00	30,233.00	
b	31.6.2	0.8 TR	Nos	1	30,880.00	30,880.00	
c	31.6.3	1.0 TR	Nos	4	32,392.00	129,568.00	
d	31.6.5	1.6 TR	Nos	4	42,326.00	169,304.00	
e	31.6.6	2.0 TR	Nos	12	43,621.00	523,452.00	
4	31.4	INDOOR UNIT Supply, Installation, Testing and Commissioning of following minimum capacity 4 way Cassette Type Indoor ceiling mounted unit equipped with synthetic washable media pre-filter, fan section with low noise fan /dynamically balanced blower, multispeed motor, coil section with DX Copper coil, electronic expansion valve, outer cabinet, drain pump, grill, necessary supports, vibration Isolation, Corded remote control etc., suitable for operation on single phase 230 V $\pm$ 10%, 50Hz AC supply, complete, as required. The Indoor units must shut down upon receiving a singal from the BMS System/Fire Signals. The system shall be capable to adjust air flow as per room requirement in auto mode. The cooling capacity of indoor unit will be at air inlet conditions of 27 Degree C DB and 19 Degree C WB temperature. (Make will be same as of Outdoor)					
a	31.4.1	0.8 TR	Nos	8	22,304.00	178,432.00	
b	31.4.2	1.0 TR	Nos	0	27,880.00	0.00	
c	31.4.3	1.2 TR	Nos	1	38,601.00	38,601.00	
d	31.4.4	1.6 TR	Nos	1	39,464.00	39,464.00	
e	31.4.5	2.0 TR	Nos	13	39,734.00	516,542.00	
f	31.4.6	2.4 TR	Nos	1	40,814.00	40,814.00	
g	31.4.7	2.6 TR	Nos	1	40,814.00	40,814.00	
h	31.4.8	3.6 TR	Nos	8	44,269.00	354,152.00	
i	31.4.9	4.1 TR	Nos	18	45,781.00	824,058.00	
i	31.4.10	4.6 TR	Nos	3	52,799.00	158,397.00	
5	31.13	Supply, Installation, Testing and Commissioning of Y/T/Multi Joints. Joints shall be of same Original Equipment Manufacturer (OEM) make as of ODU's and IDUs					
a	31.13.1	Indoor Units	Nos	112	4,535.00		507,920.00
b	31.13.2	Outdoor Multi Joint	Nos	16	8,098.00		129,568.00

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Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

SCHEDULE OF QUANTITIES: HVAC							
S No	DSR E&M 2025/MR	Description	Unit	Quantity	Rate	Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
		REFRIGERANT PIPING:					
6	31.14	Supply, Installation, testing and commissioning including vaccumiazation and Nitrogen testing of following nominal sizes of soft/hard drawn copper refrigerant piping for VRV/VRF system, complete with fittings, with suitable adjustable ring type hanger supports, jointing/brazing including accessories, insulated with XPLE Class-O tubular insulation/with Class-O closed cell elastometric nitrile rubber tubular sleeves sections of 19 mm thick insulation as given below for Suction and Liquid lines, all accessories as per specifications etc. as required:					
a	31.14.1	6.4 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm	Metre	960	256.00	245,760.00	
b	31.14.2	9.5 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm	Metre	2400	346.00	830,400.00	
c	31.14.3	12.7 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm	Metre	960	487.00	467,520.00	
d	31.14.4	15.86 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm	Metre	2400	615.00	1,476,000.00	
e	31.14.5	19 mm dia (OD) (Hard drawn) with tube thickness 1.2 mm	Metre	600	739.00	443,400.00	
f	31.14.6	22.2 mm dia (OD) (Hard drawn) with tube thickness 1.2 mm	Metre	600	904.00	542,400.00	
g	31.14.7	25.4 mm dia (OD) (Hard drawn) with tube thickness 1.2 mm	Metre	400	1,068.00	427,200.00	
h	31.14.8	28.58 mm dia (OD) (Hard drawn) with tube thickness 1.2 mm	Metre	400	1,157.00	462,800.00	
i	31.14.9	31.8 mm dia (OD) (Hard drawn) with tube thickness 1.62 mm	Metre	200	1,222.00	244,400.00	
j	31.14.10	34.9 mm dia (OD) (Hard drawn) with tube thickness 1.62 mm	Metre	200	1,286.00	257,200.00	
k	31.14.11	38.1 mm dia (OD) (Hard drawn) with tube thickness 1.62 mm	Metre	100	1,322.00	132,200.00	
l	31.14.12	41.27 mm dia (OD) (Hard drawn) with tube thickness 1.62 mm	Metre	100	1,368.00	136,800.00	
7		Cable Tray					
a	MR	300x75mm outdoor cable tray with cover (hot dip galvanized)	Metre	960.00	1,439.00		1,381,436.27
		Drain Piping for VRV HVAC					
8		Providing and fixing of uPVC/cPVC/PVC drain pipe					
a	MR	32 mm	Metre	960	329.00		315,840.77
b		25 mm	Metre	2400	247.00		592,791.15
		CONTROL CABLING					
g	MR	Supplying, receiving, storing, laying, effecting proper connections, testing and commissioning of the following sizes of 1.1 KV grade PVC insulated copper conductor unarmoured stranded control cable complete as required.					
a		2C x 1.5 mm ² Cu (Communication cable from ODU to IDU for VRF units)	Metre	3360	274.00		920,651.87

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

SCHEDULE OF QUANTITIES: HVAC							
S No	DSR E&M 2025/MR	Description	Unit	Quantity	Rate	Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
10	MR	Supply, Installation, Testing & Commissioning of Silent type circular /rectangular inline fans for exhaust air complete with sheet metal casing, 25mm thick acoustic insulation, direct driven centrifugal fan, motor with proper protection and inspection door. Fan shall be suitable for operation on 220+6 % volts, 50 Hz, 1 phase AC power supply. Flanges to be provided on both sides to facilitate duct connections. Fan shall be installed as shown in the drawings and will be of following characteristics: All single phase inline fans shall be provided with factory fitted speed regulators. All Fans Should be complete with Plug Top & necessary power cable. Fans shall have low noise level in rage of 35-40dBA @3m and shall be suitable for indoor installations.					
a		200 CFM S P of 13-14 for Toilet	Nos.	39	6500.00		253500.19
b		500 CFM S P of 13-14 for Kitchen	Nos.	15	9500.00		142500.00
		TOTAL				16,020,013.00	4,244,208.26

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

SCHEDULE OF QUANTITIES: VENTILATION							
S NO	DSR E&M 2025/ MR	DESCRIPTION	UNIT	QTY	RATE	AMOUNT DSR	AMOUNT NON-DSR
						All Figures in Rs.	All Figures in Rs.
1		Exhaust Fans - Axial Flow Type :					
		(Fire rated : 250 deg for 2 Hrs.)					
	MR	Providing, fixing, testing and commissioning of AMCA Certified (For Air and Sound Performance) tube / vane axial flow fan of different capacity as mentioned below in standard M.S. construction. Entire fan model & AMCA Seal shall appear in technical submittal of fan. All the fans are synthetic enamelled painted/hot dip galvanized with minimum 220 GSM Zinc Coating and complete with bird screen at inlet. The electric motor coupler shall be squirrel cage induction motor (IE-3 type) confirming to IS - 325-IP - 55 with class 'H' insulation. Motor shall be of high temperature resistance "Class H Smoke Spill" 250° C for 2 hrs. Fan shall be TUV / CE Certified for high temperature. Fan shall be EN 12101-3 Certified high temperature. Motor should be VFD rated. Fan efficiency should not be less than 70 %. Noise level should not more than 80 dB @ 3 mtr distance when measured in hemispherical reverberant room conditions, for normal (non-fire) conditions, and not more than 85 dB @ 3mtr distance for fire conditions. Fans should be as per specification and drawings.					
	(i)	Normal Mode					
		18500 CFM, S.P 25 mm WG	Nos	2	370,000.00		740,000
		15000 CFM, S.P 25 mm WG	Nos	2	300,000.00		600,000
	(ii)	Emergency Mode					
		18500 CFM, S.P 25 mm WG	Nos	2	370,000.00		740,000
		15000 CFM, S.P 25 mm WG	Nos	2	300,000.00		600,000
2		Lift well Pressurization Axial fan					
	MR	Supply, installation, testing and commissioning of Direct drive Tube Axial fans complete with Hot dipped Galvanised Steel Casing with spun flanges, adjustable pitch die cast aluminium impeller (Hub and Aerofoil blades) and IE3 motors. Casing position shall be as per the job requirement and shall be marked on the fan assembly. The complete fan assembly with its casing, impeller and motor (not only motor or one of the item) shall be sourced from one manufacturer. Fan must be AMCA certified for Air & sound both.					
	(i)	16500 CFM, S.P 25 mm WG	Nos	2	330,000.00		660,000
	(ii)	18000 CFM, S.P 25 mm WG	Nos	1	360,000.00		360,000

Contractor

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Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

SCHEDULE OF QUANTITIES: VENTILATION							
S NO	DSR E&M 2025/ MR	DESCRIPTION	UNIT	QTY	RATE	AMOUNT DSR	AMOUNT NON-DSR
3		Lift Lobby Pressurization Axial fan				All Figures in Rs.	All Figures in Rs.
	MR	Supply, installation, testing and commissioning of Direct drive Tube Axial fans complete with Hot dipped Galvanised Steel Casing with spun flanges, adjustable pitch die cast aluminium impeller (Hub and Aerofoil blades) and IE3 motors. Casing position shall be as per the job requirement and shall be marked on the fan assembly. The complete fan assembly with its casing, impeller and motor (not only motor or one of the item) shall be sourced from one manufacturer. Fan must be AMCA certified for Air & sound both.					
	(i)	45000 CFM, S.P 35 mm WG	Nos	2	900,000.00		1,800,000
	(ii)	25000 CFM, S.P 25 mm WG	Nos	2	500,000.00		1,000,000
		Duct Work					
4	30.12.2	Supplying, installation, balancing and commissioning of fabricated at site GSS sheet metal rectangular/ round ducting complete with neoprene rubber gaskets, elbows, splitter dampers, vanes, hangers, supports, bends, transitions, reducers, end caps, collars etc as required complete in all respect in confirmation with IS : 655 and approved drawings and specifications of following sheet thickness complete as required.					
	30.12.2.1	Thickness 0.63 mm sheet	SQM	600	1,213.00	727,800	
	30.12.2.2	Thickness 0.80 mm sheet	SQM	600	1,415.00	849,000	
	30.12.2.3	Thickness 1.00 mm sheet	SQM	200	1,851.00	370,200	
	30.12.2.3	Thickness 1.25 mm sheet	SQM	100	2,063.00	206,300	
5	30.14	Supply, installation, testing and commissioning of Motorized (ON-OFF Type) duct mounted GI volume control damper with enthalpy sensor and necessary control wire for integration within AHU room complete with neoprene rubber gaskets, nuts, bolts, screws linkages, flanges etc in confirmation to SMACNA/IS and as per specifications complete etc. as required.					
	30.14.1	Damper	SQM	5	18,377.00	91,885	
	30.14.2	Actuator	SQM	5	9,793.00	48,965	
6	30.15	Supplying, Fixing, installation, testing and commissioning of powder coated extruded aluminium Supply Air Grills with aluminium volume control dampers in confirmation to SMACNA/IS and as per specifications complete etc. as required.	SQM	30	9,623.00	288,690	

Contractor

G. T. S. S. S.

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Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

SCHEDULE OF QUANTITIES: VENTILATION							
S NO	DSR E&M 2025/ MR	DESCRIPTION	UNIT	QTY	RATE	AMOUNT DSR	AMOUNT NON-DSR
						All Figures in Rs.	All Figures in Rs.
7	30.16	Supplying & fixing of powder coated extruded aluminium Return Air Grills with louvers but without volume control dampers complete in confirmation to SMACNA/IS and as per specifications complete etc. as required.	SQM	30	6,285.00	188,550	
		Electrical Panels					
8	MR	Supplying ,testing and commissioning of combined sheet steel cubicle type panels fabricated from 14 guage thick CRCA sheet, dust and vermin proof, indoor type Panels with hinged lockable doors fabricated from 2mm thick CRCA sheet, suitable for 415V, 3 phase 4 wire 50Hz AC supply with rear / bottom access for cable alley and with segregated bus-bar chamber and including supplying and fixing following switchgears, meters and accessories, inter-connections, bonding to earth, bottom base channel of MS. Entire panel shall have a common earth busbar at rear with 2 nos earth stud cable alleys, cable gland plates powder coated painting of approved shade after antirust treatment and marking as specified. Switch boards complete as per schematic diagram: panel with fan starter for Fesh/exhaust/lift & lobby pressurization. It should accept and offer command to & from fire alarm system. Programmable to run and control fan operation in normal, early fire, ventilation and fire mode based on fire alarm signal or Manual operation. Fan should be operable in Manual / Auto fan mode. Panel should be equipped with emergency stop mushroom type push button for emergency stop condition. Panel should equipped with over voltage, over current, phase protection, short circuit protection with motor starter based on DOL / Star - Delta. Bus bar should be hot sleeved with suitable rating. Cable entries provided from top. Bimetal overload relay for all the starters shall have built-in single phasing prevention feature. Electrical interlocking wiring shall be provided as per system requirement. System fault/trip reset arrangement shall be provided as required.					
	(i)	Incomming MCCB of 250 Amp Rating with necessary metering and indications etc complete as approved by Engineer in charge.					
	(ii)	Bus bar of suitable ratings					
	(iii)	Outgoings for Lift well and staircase pressurisation:-6 nos					
	(iv)	For Normal and Emergency mode Axial flow fans:- 6 nos					
		Details for each fans					

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

SCHEDULE OF QUANTITIES: VENTILATION							
S NO	DSR E&M 2025/ MR	DESCRIPTION	UNIT	QTY	RATE	AMOUNT DSR	AMOUNT NON-DSR
						All Figures in Rs.	All Figures in Rs.
9	MR	63 A TPN MCB for motor-01 set. Digital type ammeter to read (0 - 32) Amp, digital type Voltmeter (0-500)V, A set of CT's, RYB LED type phase indication lights -- 01 set. Fully automatic DOL Starter with built-in single hasing preventor, over load relay and (0-30) seconds adjustable timer suitable for -01 set. Auto-Manual type selector switch/timer to facilitate auto start of fan after restoration of power. Control wiring & safety circuit as required with Start-Stop PB's and LED type 'ON' & 'OFF' indication lights.					
		Complete as above	set	2	250,000.00		500,000
		Total Amount				2,771,390	7,000,000

Contractor

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Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

SCHEDULE OF QUANTITIES: LIGHTING FIXTURES

S No	DSR E&M 2025/MR	Description	QTY	Reference Image	Unit	RATE	Amount DSR	Amount NON DSR
							All Figures in Rs.	All Figures in Rs.
1	8.1	LED Down lighter (COB Type) (System lumen efficacy ≥ 120 lm/Watt) Supplying, Installation, Testing & Commissioning of LED Recessed/surface Down lighter (Round / square/ Rectangular) COB Type of following body material and construction as per IS : 10322 with driver as per the requirement with Driver efficiency >85%, Operating voltage AC 140-270 Volt, frequency 50/60 hz, Operating temp range -5 0C to 40 0C, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD < 10% , P. F. ≥ 0.95 , IP20, CRI >80 , UGR (Unified Glare Rating) < 19, Flicker free (flicker should be below 5 %), life time (LED, Driver & electrical circuitry), life time of minimum 50000 Burning Hours with, 70% of initial Lumen maintained till life ends , CCT 3000°K / 4000°K / 5700°K /6500°K (As per ANSI Bin), SDCM(Standard Deviation Colour Matching)<3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard. Manufactures Word Mark/ Name Engraved/Embossing/ Screen printing on housing. OEM must have its own in house NABL lab setup for all testing facilities for LED fixtures. "complete in all respect i/c external connections with 1.5 sq mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥ 120 <135 lm/Watt output . LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted Shape size and CCT shall be as approved by Engineer-inCharge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C). Powder coated die cast /Extruded aluminium Body including trim with Aluminium Reflector						
A	8.5.1	5-7 watt	230		nos	926.00	212980.00	
B	8.5.2	8-10 watt	10		nos	945.00	9450.00	
C	8.5.3	12-15 watt	226		nos	1187.00	268262.00	
D	8.5.6	30 watt	1		nos	2052.00	2052.00	

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

SCHEDULE OF QUANTITIES: LIGHTING FIXTURES

S No	DSR E&M 2025/MR	Description	QTY	Reference Image	Unit	RATE	Amount DSR	Amount NON DSR
							All Figures in Rs.	All Figures in Rs.
2	8.11	LED Batten light (System lumen efficacy >135 lm/Watt) Supplying, installation, Testing & Commissioning of LED surface mounted Batten light of following body material and construction as per IS : 10322 with driver (Replaceable) as per the requirement with Driver efficiency >85% ,Operating voltage AC 140 270 Volt, frequency 50/60 hz, Operating temp range -5 0C to 40 0C, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD < 10% , P. F.≥0.95, IP20, CRI >80, Flicker free (flicker should be below 5 %), life time (LED, Driver & electrical circuitry), of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends, CCT 3000°K / 4000°K / 5700°K /6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard. Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing complete in all respect i/c external connections with 1.5 sq mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy >135 lm/Watt output . LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted.. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C). Powder coated die cast /Extruded aluminium Body (Thickness > 1.20 mm)						
	8.11.1	18-22 Watt	188		nos	787.00	147956.00	

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

SCHEDULE OF QUANTITIES: LIGHTING FIXTURES

S No	DSR E&M 2025/MR	Description	QTY	Reference Image	Unit	RATE	Amount DSR	Amount NON DSR
							All Figures in Rs.	All Figures in Rs.
3	8.14	LED Street light fixture, powder coated pressure die cast aluminium body (System lumen efficacy >135 lm/Watt). Supplying, Installation, Testing & Commissioning of Street light LED fixture, powder coated pressure die cast aluminium body with built in or separate driver as per the requirement with Driver efficiency >85%, Input voltage: 140-270 Volt AC, frequency 50/60 hz, Operating temp range -5 0C to 50 0C, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency >85%,THD < 10% as per IEC 61000-3-2, P. F.≥0.95, IP-66,IK-10, CRI>70, under voltage and over voltage protection, EMI-EMC as per CISPR-15, lenses for beam angle as per IESNA type I/II/III as per the width of the road and the project requirement., suitable to fit in up to 65mm dia pipe, life time (LED,Driver & electrical circuitary) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K /4000°K / 5700°K /6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <5, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c external connections with 1.5 sq mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy >135 lm/Watt output . LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted.. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C).						
	8.14.12	50 watt	15		nos	2185.00	32775.00	

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Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

SCHEDULE OF QUANTITIES: LIGHTING FIXTURES

S No	DSR E&M 2025/MR	Description	QTY	Reference Image	Unit	RATE	Amount DSR	Amount NON DSR
							All Figures in Rs.	All Figures in Rs.
4	MR	Supply, Installation, Testing and Commissioning of Integral, SMD 4x1 Backlit LED Panel, IP 20, 30W LED recessed mounted fixture with system efficacy of minimum 100lm/W and system lumen output of minimum 3000lm, operating in ambient temperature of 0°C to 45°C at 50Hz frequency. Luminaire shall have CRCA housing coated in white (RAL9016) with translucent HET diffuser for uniform illumination and wider light distribution. LEDs used in the product shall comply with IEC 62471. LM 80-08 compliant LEDs should be provided. The LED shall comply with L70 life of 50000 burning hours tested at maximum current. The LEDs used should be with CCT of 4000 K and CRI of Minimum 80. LED Driver shall be Isolated type, Constant Current topology driver with proper heat sink for heat dissipation suitable to operate in input voltage range of 140V to 300V (nominal rated voltage – 240V) with 4KV internal surge protection, Power factor of minimum 0.95 and total harmonic distortion (THD) of less than or equal to 10% should be integral to the luminaire. Manufacturer shall have inhouse lab approved by NABL or ministry of science of govt of India. LM 79 and LM80 reports need to be submitted from a NABL/UL accredited lab to verify above parameters. Compliance to Indian Standards of IS10322 Part 5 / Sect 5:1967; 16105 : 2012; IS 16106 : 2012; IS 15885 (Part2/Sec13) : 2012; IS 16108 : 2012.	342		nos	3500.00		1197000.92

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

SCHEDULE OF QUANTITIES: LIGHTING FIXTURES

S No	DSR E&M 2025/MR	Description	QTY	Reference Image	Unit	RATE	Amount DSR	Amount NON DSR
							All Figures in Rs.	All Figures in Rs.
5	MR	Supply, Installation, Testing and Commissioning of 20W, recessed/suspended by 1.5m suspension wire, 4 feet linear, IP40 from front, SMD LED luminaire with system efficacy of 120 lumen/watt and system lumen output of 2400 lumen, operating in an ambient temperature of 0°C to 45°C. Operating at 50Hz frequency, luminaire shall have extruded aluminium housing in white with high efficiency translucence diffuser and must have provision for end to end seamless connectivity. EMC package of wattage of 0.2-0.5 W LEDs used in the product shall comply with IEC 62471 for Photo-biological safety. LM 80-08 compliant LEDs should be provided. The LED shall comply with L70 life of 50000 burning hours tested at maximum current. The LEDs used should be with CCT of 4000/5700 K and CRI of Minimum 80, with MacAdam CCT binning ≤3 mounted on 1.6mm FR4 / MCPCB with 35 micron cu layer. LED Driver shall be Isolated type, Constant Current topology driver with proper heat sink for heat dissipation suitable to operate in input voltage range of 140V to 300V (nominal rated voltage – 240V) with 4KV internal surge protection, Power factor of minimum 0.95, driver efficacy of minimum 85% and total harmonic distortion (THD) of less than or equal to 10% should be integral to the luminaire. Manufacturer shall have inhouse lab approved by NABL or ministry of science of govt of India. LM 79 and LM80 reports need to be submitted from a NABL/UL accredited lab to verify above parameters. Compliance to Indian Standards of IS10322 Part 5 / Sect 5:1967; 16105 : 2012; IS 16106 : 2012; IS 15885 (Part2/Sec13) : 2012; IS 16108 : 2012. Dimension: 1204 X 50 X 75mm, weight: 1.6Kg with all connectors to give continous cascading effect wherever required as per the directions of engineer in charge	84		nos	4000.00		336000.26
6	MR	Supply, Installation, Testing and Commissioning of 1200mm dia Pendent Mounted Ring LED. Fixture to be made of extrusion Aluminum housing in white finish with HET plastic diffuser. LED Used shall be SMD type with Minimum system Lumens 4800 @60W & efficacy 80lm/W, Life of fixture : 50000 burning Hrs. @ L70 Lumen maintenance, CCT of 4000/5700K (SDCM≤3), CRI Ra ≥80, PF >0.95, operating Voltage Range of 150-270 V AC. Minimum Internal Surge Protection 2.0KV. LED driver should have CISPR 15 / EN 55015 compliance to limit for radio disturbance characteristics. Manufacturer shall have inhouse lab approved by NABL or ministry of science of govt of India. LM 79 and LM80 reports need to be submitted from a NABL/UL accredited lab to verify above parameters. Both the fixture and Driver should have separate BIS approval.	1		Nos	28900.00		28900.00

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Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

SCHEDULE OF QUANTITIES: LIGHTING FIXTURES

S No	DSR E&M 2025/MR	Description	QTY	Reference Image	Unit	RATE	Amount DSR	Amount NON DSR
							All Figures in Rs.	All Figures in Rs.
7	MR	Supply, Installation, Testing and Commissioning of 30W LED Decorative Post Top type luminaire with System efficacy of 120 lm/W (3600 lumens), suitable for external poles of dia. 60mm to 75mm. Fixture dimension: 480X470mm, height: 550mm (including PDC base). Light fixture should have Dark Sky certification to avoid light pollution and power wastage. Luminaire shall be made up of pure polyster power coated RAL7021 pressure die cast Aluminium housing with PC lens and tempered glass with street light optics. All external hardware must be of SS304 grade. LM 80-08 compliant LEDs of EMC/ceramic package should be provided. LEDs used in the product shall comply with EN 62471 for Photo-biological safety and certificate for the same from manufacturer shall be provided. Luminaire shall be with IP66 and IK07 protection. The LED shall be compliant with LM80-08 standard with L70 life of 50000 Hrs tested at maximum current (Complete LM 80 test report for LED should be submitted for 10000 hrs of testing) with ambient operating temperature -10° to +45° C. The LEDs used should be with CCT of 4000/5700 K, CRI of Minimum 70 and SDCM <5. LEDs must be driven at max 70% of the rated current. MCPCB with Aluminium core and copper thickness of 35 micron to be used for LED mounting. LED Driver shall be silicone potted, Integrated type, Isolated, Constant Current with range 140-280V AC. Driver Efficiency > 85% & 5 KV internal surge protection, 10KV external surge protection, Power factor greater than 0.95 and total harmonic distortion (THD) of less than 10% should be integral to the luminaire. OEM should provide Dark Sky Certificate mentioning the name of the item along with unique ID issued by "Dark Sky International". Manufacturer shall have inhouse lab approved by NABL or ministry of science of govt of India. LM79 and LM80 reports need to be submitted from a NABL/UL accredited lab to verify above parameters. Compliance to Indian Standards of IS10322 Part 5 / Sect 5:1967; 16105 : 2012; IS 16106 : 2012; IS 15885 (Part2/Sec13) : 2012; IS 16108 : 2012 should be there.	10		Nos	14523.00		145230.00

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

SCHEDULE OF QUANTITIES: LIGHTING FIXTURES

S No	DSR E&M 2025/MR	Description	QTY	Reference Image	Unit	RATE	Amount DSR	Amount NON DSR
							All Figures in Rs.	All Figures in Rs.
8	MR	Supply, Installation, Testing and Commissioning of 11W LED Decorative Bollard with System lumen output of 300 lumens. Luminaire shall be made up of dark grey, pure polyester power coated extruded Aluminium housing specially design to provide beautiful light pattern on ground surface. Light fixture should have Dark Sky certification to avoid light pollution and power wastage. Fixture dimension: 150X150mm, length: 1004mm, weight: 4.3Kg. LM 80-08 compliant LEDs of EMC/ceramic package should be provided. LEDs used in the product shall comply with EN 62471 for Photo-biological safety and certificate for the same from manufacturer shall be provided. Luminaire shall be with IP65 protection. The LED shall be compliant with LM80-08 standard with L70 life of 50000 Hrs tested at maximum current (Complete LM 80 test report for LED should be submitted for 10000 hrs of testing). The LEDs used should be with CCT of 3000 K, CRI of Minimum 70 and SDCM <5. LEDs must be driven at max 70% of the rated current. MCPCB with Aluminium core and copper thickness of 35 microns to be used for LED mounting. IP65 rated LED Driver shall be silicone potted, Integrated type, Isolated, Constant Current with range 140-280V AC. Driver Efficiency > 80% & 2.5KV internal surge protection, Power factor greater than 0.95 and total harmonic distortion (THD) of less than 10% should be integral to the luminaire. OEM should provide Dark Sky Certificate mentioning the name of the item along with unique ID issued by "Dark Sky International". Manufacturer shall have inhouse lab approved by NABL or ministry of science of govt of India. LM79 and LM80 reports need to be submitted from a NABL/UL accredited lab to verify above parameters. Compliance to Indian Standards of IS10322 Part 5 / Sect 5:1967; 16105 : 2012; IS 16106 : 2012; IS 15885 (Part2/Sec13) : 2012; IS 16108 : 2012 should be there.	2		Nos	14000.00		27999.99

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

SCHEDULE OF QUANTITIES: LIGHTING FIXTURES

S No	DSR E&M 2025/MR	Description	QTY	Reference Image	Unit	RATE	Amount DSR	Amount NON DSR
							All Figures in Rs.	All Figures in Rs.
9	MR	Supply, Installation, Testing and Commissioning of 18W recessed, deep inset COB LED Downlight luminaire having 1620 lumens with dimensions of 92mm x 92mm and height of 56mm. The cut out dia (Φ) should not be more than 85mm x 85mm. Luminaire shall be made up of pure polyster powder coated pressure die cast Aluminium housing with inbuilt heat sink to provide better thermal management to enhance LED life. The luminaire should be equiped with the secondary optics of high efficiency polycarbonate lens to provide UGR < 19. The luminaire should have beam angle of 70°.LM 80-08 compliant ceramic / aluminium base LEDs should be provided. LEDs used in the product shall comply with EN 62471 for Photo-biological safety and certificate for the same from manufacturer shall be provided. The luminaire should be IP20 rated. The LED shall be compliant with LM80-08 standard with L70 life of 50000 Hrs tested at maximum current (Complete LM 80 test report for LED should be submitted for 10000 hrs of testing). The LEDs used should be with CCT of 4000/5700 K and CRI of Minimum 80. LED Driver shall be IP20 rated, non-integrated type, Isolated, Constant Current operated driver with range 100-265V AC. Driver Efficiency > 85% & 2.5 KV internal surge protection, Power factor greater than 0.95 and total harmonic distortion (THD) of less than 10% should be integral to the luminaire. Manufacturer shall have inhouse lab approved by NABL or ministry of science of govt of India. LM 79 and LM80 reports need to be submitted from a NABL/UL accredited lab to verify above parameters. Compliance to Indian Standards of IS10322 Part 5 / Sect 5:1967; 16105 : 2012; IS 16106 : 2012; IS 15885 (Part2/Sec13) : 2012; IS 16108 : 2012	382		Nos	₹ 2,200.00		840400.64

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

SCHEDULE OF QUANTITIES: LIGHTING FIXTURES

S No	DSR E&M 2025/MR	Description	QTY	Reference Image	Unit	RATE	Amount DSR	Amount NON DSR
							All Figures in Rs.	All Figures in Rs.
10	MR	Supply, Installation, Testing and Commissioning of LED based Spike light, housing made up of pressure die cast aluminum Alloy with effective thermal management, sturdiness and embossed brand name/logo name of manufacturer and optics made of surface mount reflector with toughened. The fixture should have a minimum system efficacy of 80lumen/Watt and a minimum system lumen output of 640 lumens and maximum system wattage of 8 Watts. The fixture shall have a CRI of minimum 80 and beam angle: 50-55deg. The fixture shall be designed for a system life of 50,000 hours @70% lumen maintenance. Ingress Protection of IP67 (lamp and gear Compartment) and Mechanical Impact Resistance Rating of IK >=07, CCT: 2700K. The fixture driver should have an operating voltage range of 100-270 V, surge protection of >=3KV, PF >0.9, THD<10% & Driver efficacy >80% @full load and rated voltage. Ambient temp range: 0deg to 45deg C. The Drivers should be a potted driver not a printed circuit board without casing, mounted inside the luminaire. The fixture should comply with the parameters as per IS10322. Manufacturer shall have inhouse lab approved by NABL . LM 79 and LM80 reports need to be submitted from a NABL/UL accredited lab to verify above parameters.	10		Nos	8500.00		85000.00
11	MR	SITC of decorative wall bracket having canopy arm chrome lamp cup with E27 lamp holder and LED bulb. Dimension: L180XW120XH300mm ±2mm. Wipro cat No.: LM91/LT/Regent	67		Nos	2250.00		150750.12
12	MR	SITC of Aluminium LED (Wall Highlighter) - 12W Modern Black Finish Wall Sconce Light for bedside indirect lighting complete in all respect	60			2500.00		150000.00
		TOTAL					673475.00	2961281.93

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Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

SCHEDULE OF QUANTITIES: FIRE DETECTION AND ALARM SYSTEM WITH PUBLIC ADDRESS AND 2-WAY COMMUNICATION							
S No	DSR (E&M) 2025/ MR	Description of Items	Qty	Unit	Rate	Amount	
						Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
1	28.2	Supplying, installation, testing and commissioning of micro processor based intelligent addressable main fire alarm panel, central processing unit with the following loop modules and capable of supporting not less than 240 devices (including detectors) and minimum 120 detectors per loop and loop length up to 2 km, network communication card, minimum 320 character graphics/ LCD display with keypad and minimum 4000 events history log in the non volatile memory (EPROM), power supply unit (230 ± 5% V, 50 hz), 48 hrs back up with 24 volt sealed maintenance free batteries with automatic charger. The panel shall have facility to connect printer to printout log and facility to have seamless integration with analog/digital voice evacuation system (which is part of the schedule of work under SH: PA System) and shall be complete with all accessories. The panel shall be compatible for IBMS system with open protocol BACnet/ Modbus over IP complete as per specifications					
(a)	28.2.1.1	Ten Loop Panel.	1.00	Each	476893.00	476893.00	
2	28.2.3	Supplying, installation, testing & commissioning of repeater panel with 320 character/ Touch screen LCD display with inbuilt reset, acknowledge and silence switches complete as required.	8.00	Each	113734.00	909872.00	
3	28.2.4	Supplying, installation, testing & commissioning of intelligent analog addressable photothermal detector with in-built isolator complete with mounting base complete as required.	426.00	Each	3,004.00	1279704.00	
4	28.2.5	Supplying, installation, testing & commissioning of response indicator on surface/recessed MS Box having two LED, metallic cover complete with all connections etc as required.	213.00	Each	306.00	65178.00	
5	28.2.7	Supplying, installation, testing & commissioning of fault isolator complete with base as required.	50.00	Each	3,434.00	171700.00	
6	28.2.9	Supplying, installation, testing & commissioning of intelligent addressable thermal detector with rate of rise cum fixed temperature thermistor having in-built isolator complete with base as required.	68.00	Each	2,866.00	194888.00	
7	28.2.10	Supplying, installation, testing & commissioning of addressable fire control module complete as required.	3.00	Each	3,156.00	9468.00	
8	28.2.11	Supplying, installation, testing & commissioning of addressable phone control module complete as required.	3.00	Each	3,432.00	10296.00	
9	28.2.14	Supplying, installation, testing & commissioning of addressable manual call point complete as required.	33.00	Each	4,063.00	134079.00	
10	28.2.15	Supplying, installation, testing & commissioning of addressable horn cum strobe complete as required.	20.00	Each	3,682.00	73640.00	
11	28.2.13	Supplying, installation, testing and commissioning of addressable duct detector including suitable photo detector complete with base as required	3.00	Each	8,183.00	24549.00	
12	28.3.1	Supplying, installation, testing & commissioning of 6 zone, voice alarm controller with USB, MP3 player (including 6 zone button paging station) with seamless integration facility with main fire alarm panel for voice evacuation complete as required.	1.00	Each	132115.00	132115.00	
13	28.3.2	Supplying, installation, testing & commissioning of 1.5/3/6W ceiling speaker complete as required.	143.00	Each	1025.00	146575.00	
14	28.3.3	Supplying, installation, testing & commissioning of 1.5/3/6W metal box ceiling/wall speakers complete as required.	2.00	Each	1,891.00	3782.00	
15	28.3.7	Supplying, installation, testing and commissioning of digital audio amplifier 250 watt, 25V rms operating at 240 Volt AC Supply complete as required	4.00	Each	65000.00	260000.00	
16	28.3.9	Supplying, installation, testing & commissioning of Voice command keypad 6 zone, with microphone assembly complete as required.	1.00	Each	85,450.00	85450.00	

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Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

SCHEDULE OF QUANTITIES: FIRE DETECTION AND ALARM SYSTEM WITH PUBLIC ADDRESS AND 2-WAY COMMUNICATION							
S No	DSR (E&M) 2025/ MR	Description of Items	Qty	Unit	Rate	Amount	
						Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
17	28.5.2	Supplying & laying of 2x1.5 sqmm fire alarm armoured cable, 600/1000V rated with annealed copper conductor having XLPE insulation, steel wire armouring & FRLS outer sheath complete as required.	5270.00	Each	386.00	2034220.00	
18	1.21	Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required.					
(a)	1.21.2	25 mm	1716.00	Mtr.	168.00	288288.00	
19		Supplying and drawing of cable Fire Retardant PVC insulated copper conductor cable in the existing surface / recessed steel conduit of following pairs, cores and size including connections and interconnections etc. as required.					
(a)	28.5.3.1	Speaker cable Single pair, 2-core, 1.5 sqmm	1716.00	Mtr.	61.00	104676.00	
20	MR	Supplying & Fixing of battery operated illuminated "EXIT" signage, with 2hrs power Battery backup complete as required.	50	Nos	4,256.00		212,800.00
		TOTAL				6405373.00	212800.00

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Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

Schedule of Quantities: Fire Piping, Hydrants, Sprinklers and Accessories							
S No	DSR 2025 E&M/ MR	DESCRIPTION	QTY	UNIT	RATE	Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
1	27.1.	Supplying, installation, testing and commissioning of Electric driven Main Fire Pump suitable for automatic operation and consisting of following, complete in all respects, as required: (a) Horizontal type, multistage, centrifugal, split casing pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal conforming to IS 1520. (b) Suitable HP Squirrel cage induction motor, TEFC, synchronous speed 1500 RPM, suitable for operation on 415 volts, 3 phase 50 Hz, AC supply with IP 55 protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325. (c) M.S. fabricated Common base plate, coupling, coupling guard, foundation bolts etc. as required. (d) Suitable cement concrete foundation duly plastered with anti vibration pads.					
a	27.1.4	2280 lpm at 88 m Head	1	Set	424172	424172.00	
2	27.2	Supplying, installation, testing and commissioning of diesel engine driven main fire pump suitable for automatic operation and consisting of following, complete in all respects, as required: (Diesel Driven Pump) Horizontal type, multistage, centrifugal pump of cast of iron body and bronze impeller with stainless steel shaft, mechanical seal conforming to IS 1520. Suitable HP, 1500 RPM water cooled with radiator, diesel engine conforming to relevant IS standard complete with auto starting mechanism, 12 /24 volts electric starting equipment, diesel tank, exhaust pipe extended upto 10 m outside pump house duly insulated with 50 mm thick glass wool with 1.0 mm thick aluminium sheet cladding, residential silencer, instruments and protection as per standard specification, stop solenoid for auto stop in the event of fault with audio indications, painted with post office red colour etc. as required. MS fabricated, common base plate, coupling, coupling guard, foundation bolts etc. as required. Suitable cement concrete foundation duly plastered and with anti vibration pads.					
a	27.2.4	2280 lpm at 88 m Head	1	Set	667029	667029.00	

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Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

Schedule of Quantities: Fire Piping, Hydrants, Sprinklers and Accessories							
S No	DSR 2025 E&M/ MR	DESCRIPTION	QTY	UNIT	RATE	Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
3	27.3	(a) Supplying, installation, testing and commissioning of electric driven pressurisation pump conforming to IS 12469: 2019 suitable for automatic operation and consisting of following, complete in all respects, as required : (Jockey Pump) (b)Horizontal type, multistage, centrifugal pump of cast iron body and bronze impeller with stainless steel shaft, mechanical seal as required. (c)Suitable HP squirrel cage induction motor TEFC type suitable for operation on 415 volts, 3 phase 50 Hz AC supply with IP 55 class of protection for enclosure, horizontal foot mounted type with Class 'F' insulation, conforming to IS-12615: 2018. 194 DELHI SCHEDULE OF RATES (E&M)-2025 (d)M.S. fabricated Common base plate, coupling, coupling guard, foundation bolts etc. as required. (e) Suitable cement concrete foundation duly plastered and with anti vibration pads.					
a	27.3.1	180 lpm at 88 m Head	1	Set	134171	134171.00	
	27.5	CONTROL PANELS: Fabrication, supplying, Installation testing & commissioning of Electrical control panel of cubicle construction, floor mounted type, fabricated out of 2mm thick CRCA sheet, compartmentalised with hinged lockable doors, dust and vermin proof, powder coated of approved shade after 7 tank treatment process, cable alley, inter-connection with suitable size copper conductor cable/solid copper strip, having switchgears and accessories, mountings and internal wiring, earth terminals, numbering etc. complete in all respect, suitable for main fire pump, pressurisation pump & diesel pump set complete as per CPWD specifications with following in coming and Outgoings, suitable for operation on 415V, 3 phase, 50Hz Ac Supply with enclosure protection class IP 42 as required :					

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Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

Schedule of Quantities: Fire Piping, Hydrants, Sprinklers and Accessories							
S No	DSR 2025 E&M/ MR	DESCRIPTION	QTY	UNIT	RATE	Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
4	27.5.2	Incomings 400A, 50kA 4 Pole MCCB, Ics=100% Icu rating Digital Voltmeter 0-500V with selector switch Ammeter (0-400 A) with selector switch & CTs etc. LED type RYB phase indicating lamps, ON, OFF, trip indicating lamps Set of Copper Bus Bar 500A Outgoings (Note : All outgoing feeders for pumps should have digital Ammeter with selector switches, and LED type ON, OFF, trip indicating lamps) Main Fire Pump 200 A, 50kA TPN MCCB, Ics=100% Icu, with fully automatic Star/Delta starter suitable for 75 hp pump with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. Jockey Pump 100 A, 50kA TPN MCCB, Ics=100% Icu, with suitable HP fully automatic Star/Delta starter with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. Diesel Engine Control Control for diesel engine comprising - Automatic/Manual selector switch & 3 attempt starting device, timers and relays as required, push buttons, start/stop in manual mode Indicating lamp for high/ Low Lub. Oil pressure, High Water Temp and Engine on indication Battery charger suitable for 12V/24 V DC with boost and trickle selector switch, 0-30 V DC volt meter, and 0-20 A DC Ammeter All standard relays and accessories for automatic operation of diesel engine Designing, Supply, Installation, Testing and commissioning of System Controller to control operation of main electric fire pump, diesel pump, Pressurization pump, Terrace pump in sequence as per specification consisting of relays, timers. Sensors, annunciation window for fault indication, complete as per specifications.	1	Each	300803	300803.00	
5	27.7	Providing, laying, testing & commissioning of 'C' class heavy duty MS pipe conforming to IS 1239/Class -II of IS: 3589 including Welding, fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required :					
6.1	27.7.1	25 mm dia	1073	Meter	920.00	987160.00	
6.2	27.7.2	32 mm dia	123	Meter	1039.00	127797.00	
6.3	27.7.3	40 mm dia	484	Meter	1259.00	609356.00	

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Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

Schedule of Quantities: Fire Piping, Hydrants, Sprinklers and Accessories							
S No	DSR 2025 E&M/ MR	DESCRIPTION	QTY	UNIT	RATE	Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
6.4	27.7.4	50 mm dia	658	Meter	1557.00	1024506.00	
6.5	27.7.5	65 mm dia	254	Meter	1955.00	496570.00	
6.6	27.7.6	80 mm dia	20	Meter	2277.00	45540.00	
6.7	27.7.7	100 mm dia	20	Meter	3077.00	61540.00	
6.8	27.7.8	150 mm dia	436	Meter	4299.00	1874364.00	
7	27.6	Providing laying, testing & commissioning of 'C' class heavy duty MS Pipe conforming to IS 1239/Class -II of IS: 3589 i/c fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. in ground including welding, excavation & providing cement concrete blocks as supports, anticorrosive treatment with coaltar/asphalt tape as per IS 10221, refilling the trench etc. of following sizes complete as required.					
7.1	27.6.2	150 mm. Dia	200	Meter	5104.00	1020800.00	
7.2	27.6.1	200 mm. Dia	50	Meter	7251.00	362550.00	
8	27.11	Supplying, fixing, testing and commissioning of butterfly valve of PN 1.6 rating with bronze/gunmetal seat duly ISI marked complete with nuts, bolts, washers, gaskets conforming to IS 13095 of following sizes as required :					
8.4	27.11.4	80 mm dia	2	NOS	5406.00	10812.00	
8.5	27.11.5	100 mm dia	2	NOS	7271.00	14542.00	
8.6	27.11.6	150 mm dia	14	NOS	9737.00	136318.00	
9	27.12	Supplying, fixing, testing & commissioning of double flanged sluice valve of rating PN 1.6 with non rising spindle, bronze/gun metal seat, ISI marked complete with nuts, bolts, washers, gaskets and conforming to IS 780 of following sizes as required :					
9.1	27.12.6	150 mm dia	14	NOS	23968.00	335552.00	
10	27.13	Supplying and fixing orifice plate made out of 6 mm thick stainless steel (Grade 304) with orifice of required size to be fitted between flange & landing valve of external and internal hydrants to reduce pressure at the outlet to the level of 3.5 kg/cm2 complete as required.	14	NOS	1436.00	20104.00	

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Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

Schedule of Quantities: Fire Piping, Hydrants, Sprinklers and Accessories							
S No	DSR 2025 E&M/ MR	DESCRIPTION	QTY	UNIT	RATE	Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
11	27.14	Providing, installation, testing and commissioning of non-return valve of following sizes confirming to IS: 5312 complete with rubber gasket, GI bolts, nuts, washers etc.as required :					
11.1	27.14.7	150 mm dia	14	NOS	18884.00	264376.00	
12	27.15	Providing, installation, testing and commissioning of stainless steel Y-strainer fabricated out of 1.6 mm thick stainless steel, Grade 304, sheet with 3 mm dia holes with stainless steel flange.					
12.1	27.15.3	150mm	1	NOS.	11682.00	11682.00	
13	27.9	Supplying and fixing single headed internal hydrant valve with instantaneous Gunmetal/Stainless Steel coupling of 63 mm dia with cast iron wheel ISI marked conforming to IS 5290 (Type -A) with blank Gunmetal/Stainless Steel cap and chain as required :					
13.1	27.9.1	Single headed Gunmetal	10	NOS	8208.00	82080.00	
14	27.10	Supplying and fixing Single headed external yard hydrant valve with 1 No. 63 mm dia instantaneous FM Gunmetal/Stainless Steel coupling and cast iron wheel, ISI marked, conforming to IS 5290 (type A) with blank Gunmetal/Stainless Steel cap and chain as required :					
14.1	27.10.1	Single headed Gunmetal	4	NOS	8208.00	32832.00	
15	27.17	Supplying and fixing first-aid Hose Reel with MS construction spray painted in post office red, conforming to IS 884 complete with the following as required. (a) 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 25 mm dia stop gun metal valve & M.S. Pipe and socket.					
15.1	27.17.1	30 m	14	Set	9440.00	132160.00	

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Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

Schedule of Quantities: Fire Piping, Hydrants, Sprinklers and Accessories							
S No	DSR 2025 E&M/ MR	DESCRIPTION	QTY	UNIT	RATE	Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
16	27.16	Supplying and fixing 63 mm dia, 15 m long RRL hose pipe with 63 mm dia male and female couplings duly bound with GI wire, rivets etc. conforming to IS 636 (type-A) as required :					
16.1	27.16.1	Gun Metal	28	NOS	5455.00	152740.00	
17	27.18	Supplying & fixing 63 mm dia gun metal short branch pipe with 20 mm nominal internal diameter size nozzle conforming to IS 903 suitable for instantaneous connection to interconnect hose pipe coupling as required :					
17.1	27.18.1	Gun Metal	14	NOS	4977.00	69678.00	
18	MR	Providing and fixing standard firemans axe with heavy rubber handle.	14	NOS	1056.00		14784.00
19	27.19	Supplying and fixing of fire brigade connection of cast iron body with gun metal male instantaneous inlet couplings complete with cap and chain as reqd. for suitable dia MS pipe connection conforming to IS 904 as required :					
19.1	27.19.2	4 way - 150 mm dia M.S. Pipe	1	Set	14820.00	14820.00	
19.2	27.19.3	3 way - 150 mm dia M.S. Pipe	1	Set	10097.00	10097.00	
20	MR	Providing and fixing weather proof cabinet of size not less than 0.6 x 0.6 x 0.45 mtr made out of M.S. sheet not less than 1.5 mm thick having central opening and 4 mm thick glazed glass doors (Two nos.) suitably marked on the outside 'with the letters "FIRE HOSE" including necessary locking arrangement and painting in red colour suitable to accomodate, external yard hydrant valve, 2 nos 15 mtr long Hose pipe, branch pipe, nozzle and fire man's axe. It shall be mounted on boundary wall complete as required.	4	NOS	11095.00		44380.00
21	MR	Providing and fixing 4 mm thick glass door of size 2.1 m x 0.9 m with anodized aluminium frame of size 0.10 x 0.05 M with centre opening for fire hose cabinet. Suitably marked on the outside with the letters "FIRE HOSE" including locking arrangement. All aluminium work to be in Red P.O. colour.	10	NOS	15370.00		153700.00

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Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

Schedule of Quantities: Fire Piping, Hydrants, Sprinklers and Accessories							
S No	DSR 2025 E&M/ MR	DESCRIPTION	QTY	UNIT	RATE	Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
22	MR	Providing and fixing ISI Marked Fire Extinguishers complete with all accessories as per manufacturer's specifications.					
		a) CO ₂ gas nozzle type - 9 Litre capacity (IS:15683).	16	NOS	11600.00		185600.00
		b) Mechanical Foam gas cartridge type. 9 Kg capacity (IS:15683).	16	NOS	5260.00		84160.00
		c) ABC dry powder stored pressure type 6 kg capacity (IS:15683).	16	NOS	4476.00		71616.00
23	27.21	Providing, fixing, testing & commissioning of 15mm dia quartzoid bulb type sprinklers of rating 68 degree centigrade with required accessories :					
23.1	27.21.1	Pendant sprinkler	772	Each	599.00	462428.00	
23.2	27.21.2	Upright Sprinkler	523	Each	599.00	313277.00	
23.3	27.21.2	Horizontal side wall sprinkler	10	Each	699.00	6990.00	
24	27.24	Providing, fixing, testing & commissioning of installation control valve of cast iron body, brass/bronze working parts comprising of water motor alarm, bronze seat clapper, clapper arm and hydraulically driven mechanical gong bell to sound continuous alarm when the wet riser/sprinkler system activates, pressure gauges, emergency releases, strainer, pressure switch, cock valve complete with drain valve and bypass, test control box, ball valves, MS pipe of required size, flanges, orifice plate, gasket etc of following sizes as required :					
24.1	27.24.3	150 mm dia	1	Set	50805.00	50805.00	
25	27.20	Supplying and fixing air vessel made of 250 mm dia, 8 mm thick MS sheet, 1200 mm in height with air release valve on top and flanged connection to riser, drain arrangement with 25 mm dia gun metal wheel valve with required accessories, pressure gauge and painting with synthetic enamel paint of approved shade as required.	1	set	19402.00	19402.00	
26	27.22	Providing and fixing of pressure switch in M.S. pipe line including connection etc as required	8	Each	1670.00	13360.00	
27	27.23	Providing and fixing of flow switch in following sizes in M.S. pipe line including connection etc as required					
27.1	27.23.1	150 mm dia	8	Each	9644.00	77152.00	

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G. T. S. S. S.

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

Schedule of Quantities: Fire Piping, Hydrants, Sprinklers and Accessories							
S No	DSR 2025 E&M/ MR	DESCRIPTION	QTY	UNIT	RATE	Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
28	27.25	Supplying, installation, testing & commissioning of sprinkler flexible pipe (UL Listed) of stainless steel complete with 15 NPT on reducer thread with maximum working pressure of 175 PSI test pressure of 875 PSI (Burst) with branch line (Inlet) 25mm NPT male thread to sprinkler head (Outlet) 15mm NPT female thread with reducer, nipple, 2 side brackets, center bracket, stockbar of following sizes complete as required.					
28.1	27.25.1	700mm	10	Set	1495.00	14950.00	
28.2	27.25.2	1000mm	10	Set	1703.00	17030.00	
28.3	27.25.4	1200mm	10	Set	1969.00	19690.00	
29	MR	SAFETY SIGNAGE: Providing and fixing of photo luminiscent/visual markers signage made out of photo luminiscent, produced luminization with suitable colours combination (Glow in dark) with high intensity luminous properties covered with U/V statilized coating having following features complete as required. (a) Thickness of aluminium/ACP sheet 2.00 mm ±10% (b) Service temperature - 40 C to 120 C (c) Suitable for indoor surface, glow visibility for more than 8 hrs in total darkness. One sided signage written in English and also in regional Language, if required, for the below dimension Fire Safety Signages.					
		Signage printed with the above stated specification for (i) "NO SMOKING" with board size 4" x 12" at suitable point, (ii) Floor identification signage with board size 4"x12" at suitable point, (iii) Exit signage board size 4"x12" at suitable point, (iv) Colour signages for " EVACUATION MAP OF EACH FLOOR" with board size of 18"x24" at suitable point, (v) Lift Alert with board size 8'x12' at suitable point, (vi) Signages of " FIRE ORDER" with the board size of 24"x36" at main exit/entry (Gr. Floor)	18432	SQ INCH	22.50		414720.00
TOTAL AMOUNT						10419235.00	968960.00

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Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

Schedule of Quantities: IT PASSIVE							
S No	DSR E&M 2025/ MR	Item Description	UNIT	QTY	Rate	Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
1	39.13	Supplying, Installation, Testing and commissioning of following CAT6A Patch Cord should have ETL/UL verification program certificate for compliance with ANSI/TIA-568.2-D etc. complete as required.					
	39.13.1	Copper Patch Cords of length 1m (3ft)	Set	476	173.00	82,348.00	
	39.13.2	Copper Patch Cords of length 3m (10ft)	Set	476	405.00	192,780.00	
2	MR	Supply, Installation, Testing and Commissioning of loaded Patch Panel 24 Port Cat 6A U/UTP ,The Cat-6A transmission performance is in compliance and Exceeds ANSI/TIA/EIA-568.2-D Standard. Supports 1000-Base-T. 90 Degree (Top Entry) or 180 Degree Punch Down Design for Convenient Network Terminations, Individual replaceable jack module panel design as applicable.UL Listed, Complaint to RoHS Directive 2011/65/EU and (EU) 2015/863 and ASTM B 117 Certified. OEM should have ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018 or latest.All networking passive material (Fiber Cable, Copper Cables, Networking Racks and their connectivity components) should be from one OEM only for Data as per given specification etc. all complete	Nos	22	12,500.00		274,999.91
3	MR	Supply Installation Testing & Commissioning of 1 uPVC Cable Manager as per given specification etc.	Nos	22	1,250.00		27,500.02
4	MR	Supply, Installation, Testing & Commissioning of Mounting Hardware pack of 10pcs as per given specification etc. all complete	Nos	14	200.00		2,800.00
5	39.25	Supplying and fixing 42U Rack with 6 inch Castor wheels and front brake Floor Standing Rack with Main Frame Pillar of 1.6mm CRCA Sheet with removable side panels, L- Shape adjustable Vertical Mounting Rail of 2mm with 'U'Marking completely knocked-down condition (CKD) Shape, fitted with 4 number cooling fans, minimum 8nos two line cable entry/exit provision at top and bottom with rubber protection, Front door 5mm Toughened Glass with MS frame or MS perforated with lock, Rear MS vented or perforated door, Powder coated Color- RAL- 7035 or black, complied with UL & RoHS, 2 x 6 sockets 16A power distribution units, 3 numbers closed cable organizer, Hardware mounting screws packet of 20 x 1 number, etc. complete as required.	Nos	6	32,954.00	197,724.00	
6	39.15	Supplying, Installation, Testing and commissioning of CAT6A Copper Information Outlet (IO) with face plate of color as per site requirement, should have ETL/UL verification program certificate for compliance with ANSI/TIA-568.2-D. All copper Cable and components should be from same OEM to maintain compatibility and interoperability etc. complete as required.	Nos	476	302.00	143,752.00	
7	39.18	Supplying, drawing, Testing and commissioning of Cat6A UTP 4 pair, 23 AWG solid copper cable in existing conduit/ on surface, U/FTP, LSZH, Non-Plenum, Horizontal (solid) Cable suitable for high speed data networking application supporting upto 10Gbps over a 100 meter channel. The 4 Unshielded Twisted Pairs (UTP) cable with color coded insulation for easy identification should have FLAME PROPERTIES i.e. Flammability Test - IEC 60332-1, Smoke Density - IEC 61034, LSZH standards compliance: ANSI/TIA-568 C.2, ISO/IEC 11801, IEEE 802.3an, RoHS. Delay Skew should be < 45NS. The outer Cable Diameter should be 7.5 + 2 mm. Cable should have been tested and verified by UL/ ETL etc. complete as required.					
	39.18.1	1 Run of cable	Nos	500	74.00	37,000.00	
	39.18.2	2 Run of cable	Nos	9520	124.00	1,180,480.00	
	39.18.3	3 Run of cable	Nos	500	174.00	87,000.00	
	39.18.4	4 Run of cable	Nos	100	224.00	22,400.00	

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Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

Schedule of Quantities: IT PASSIVE							
S No	DSR E&M 2025/ MR	Item Description	UNIT	QTY	Rate	Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
8	39.16	Supplying, Installation, Testing and commissioning of RJ45 Connector for CAT 6/6A Cables. RJ45 modular plug supports 4 twisted pairs, 8 positions, 8 connectors. Housing: PC, UL94V-2, transparent color, Use for 24- 26 AWG stranded wires etc. complete as required.	Nos	476	9.00	4,284.00	
9	39.20	Supplying and drawing following core Multi mode Fiber Optic Cable having corrugated steel armoring, lesser optimize 50/125 µm with HDPE jacket, LSZH (Low smoke Zero Halogen), Tight-buffered or loose tube, maximum attenuation: < 3.5 dB/km at 850 nm, < 1.5 dB/km at 1300 nm, bandwidth > 2000 MHz-km at 850 nm, > 500 MHz-km at 1300 nm compliance and certifications: ISO/IEC 11801 Ed. 2.2, ANSI/TIA-568-C.3, ITU-T G.651.1 RoHS compliant. Multi Mode Fiber shall be Central-loose tube filled with Thixotropic jelly, duly following Standards: ISO 11801, IEC 60793-1/60794-1-2, ITU-T-REC G.652D and Telecordia GR-20-core, High quality Electro Chromium Coated Corrugated Steel tape (ECCS) and HDPE- Sheath, Operating ambient Temperature should be – 5 0C to +50 0C and Storage Temperature should be – 5 0C to +50 0C, Maximum Attenuation ± 3.5 dB/km at Operational Wavelength 850 nm and ± 1.5 dB / km at Operational Wavelength 1300 nm . type of fiber should be 50/125 / G.652D & Refractive Index should be 1.483/1.478, The value for Mode-filed, Cladding Diameter 50 ± 2.5 µm and 125 ± 1µm correspondingly i/c splicing & marking etc complete as required.					
	39.20.1	6 Core Multi Mode Optical Fiber Cable	meter	200	87.00	17,400.00	
TOTAL						1,965,168.00	305,299.93

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

Schedule of Quantities: Integrated IT ACTIVE							
S No	DSR E&M 2025/ MR	Item Description	UNIT	QTY	Rate	Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
4	39.8	Supplying, Installation, Testing and commissioning of indoor Wireless Access Point for High density use having features and specifications etc. as mentioned here under- WiFi6 802.11ax 574Mbps (2.4GHz) + 2402Mbps (5GHz), WIFI 6 Certified, 1 x RJ45 console port, MG 2.5G LAN POE Port, factory reset, WPA/WPA2/WPA3™ Personal/Enterprise, WEP 64/128-bit, SSID broadcast disable, MAC address access control, Internal RADIUS server, SNMP, Customizable Captive Portal, Auto Channel, Works as Access Point, WDS, WDS with AP, Wireless Client, Web (HTTP), Secure Socket Layer (SSL), Traffic control, Support ATF/Fast Roaming/Band Steering, Supports enhanced security – WPA-PSK/WPA2 PSK/WPA3-PSK and RADIUS client, and Cipher negotiation, and MAC/ IP ACL for networks, Certifications: MTCTE, CE, FCC. Works as Standalone, Compatible with S/W & H/W Controller with additional features like - Real-Time monitoring and Alerts, Rich Advanced Features, Centralized Device Management, Role-Based Administration, Real-Time Monitoring, VLAN and Access Control, Auto RF Management and Bandwidth Optimization, Multi-SSID and Captive Portal Authentication.OEM/Product must be on Trusted Telecom Portal of Department of Telecommunication, Government of India etc. complete as required	Each	18	35,559.00	640,062.00	
5	39.10	Supplying, Installation, Testing and commissioning of indoor Wireless Controller having features and specifications etc. as mentioned here under- The network controller shall be a dedicated hardware appliance designed for centralized management of wireless access points, It must support the management of up to 500 networking devices. The system should be on-premise, ensuring data privacy and complete control over network configurations. It must include an intuitive user interface for real-time monitoring, device discovery, firmware upgrades, scheduling, and mass configuration deployment. Features such as role-based administration, multi-site management. AP to controller communication shall be use of industry standards-based (IEEE or IETF) CAPWAP or any tunneling protocols as per guidelines of DoT.The controller should support Layer 2 and Layer 3 device discovery, VLAN configuration, MAC ACL groups, IGMP snooping, and bandwidth optimization. Automatic radio frequency (RF) management and access policy enforcement are required for reliable wireless performance. The solution must offer a comprehensive dashboard with network topology, floor plan views, client and device lists, and alert notifications. For authentication, it should support a range of methods including local database, external RADIUS, LDAP, and passcode or MAC-based access. It should provide detailed traffic analytics, logs, and customizable reporting for network visibility and planning. Firmware and configuration backup and restoration functions must be available, with USB based log storage supported. Physical specifications should include a compact form factor with a minimum of one 2.5G Ethernet port and USB 3.0 port, and it must be MTCTE,CE, FCC, and RoHS certified. The controller should operate reliably within a 0°C to 40°C temperature range and 10–90% non-condensing humidity. /Product must be on Trusted Telecom Portal of Department of Telecommunication, Government of India etc. complete as required.	Each	1	113,228.00	113,228.00	
		TOTAL				3,416,783.00	0.00

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Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

SCHEDULE OF QUANTITIES: EPABX (TELEPHONE & INTERCOM SYSTEM)							
S NO	DSR 2025/MR	DESCRIPTION	Unit	QTY	RATE	AMOUNT	
						Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
1	38.1	Supplying, installation, testing and Commissioning of IP based voice communication system with 04 Port Voicemail, 04 Port FXS, 04 Port FXO, 1 PRI Trunk lines (30 Channels) Circuit with CLIP Facility, min 100 IP users License with provision for further additions, 100 analog users, 01 Number IP based Operator Console, 100 Party Conference, Speed Dial, Music on Hold, Internal/ External ring difference, Call Barring, Call Pickup, Redundant server in active -Active mode and as per technical specification including supporting accessories etc complete as required. The system should have valid TEC GR approval from DoT.	Each	1	1,578,920.00	1,578,920.00	
3	38.3	Supplying, Installation, Testing & Commissioning of Type 1 IP Phone having 2 VoIP account, 120 x40 DOT matrix screen with backlight, Full HD duplex speaker phone, IPV6, Gigabit Ethernet, PoE etc. complete as required.	Each	60	11,698.00	701,880.00	
4	38.5	Supplying and drawing 20 Pair 0.5 mm dia FRLS PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC Conduit etc. complete as required.	Metre	500	344.00	172,000.00	
5	38.4	Supplying, Installation, Testing & Commissioning of Analog phones having standard feautres like 16 digit LCD display, 2 way speaker, caller ID and number storage facility etc. complete as required.	Metre	100	1,544.00	154,400.00	
TOTAL						2,607,200.00	0.00

Contractor

G. T. S. S. S.

NBCC

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

SCHEDULE OF QUANTITIES: IP Based CCTV System							
S NO	DSR E&M 2025/MR	DESCRIPTION	Unit	QTY	RATE	AMOUNT	
						Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
1	40.5	Supplying Installation Testing and Commissioning of 5/6MP IP IR Dome Camera having following specifications and features etc :- 1)Type of Camera: Dome Camera 2) Image Sensor: 1/2.8" or better progressive Scan CMOS get color image even at night condition 3) Signal System: PAL/NTSC 4) Minimum Illumination: 0.008Lux@ F1.4, AGC ON, 0 lux with IR or better 5) Imaging: 1/3s to 1/30000s Shutter Support, Auto Gain Control , White Balance- Auto, Back Light Compensation, Multi zone Privacy Masking, HLC,Digital Watermarking. 6) On Screen Display: Camera should display Camera title, Date & Time in live & recorded video both. 7) Signal to Noise Ratio: > 50 dB 8) Day & Night: True Day & Night High Performance Mechanical IR cut filter with auto switch, IR SourceInbuilt IR LED's with effective distance upto 50 Mtrs integrated IR 30 Mtrs for colour view in night. 9) Video Compression (Minimum): H.265 or better, Audio:- G.711U/A, G.711Mu, G.726, AAC, G.723S 10) Wide Dynamic Range: WDR (120dB or more) 11) Digital Noise Reduction: DNR (2D/3D) On/Off 12) Streaming: Triple streaming, configurable 13) Video Streaming & Frame Rates: Triple streaming, configurable Main stream: 5/6MP @25/30 fps, Sub streams:D1@25/30 fps or better 14) Image Setting: Rotate Mode, saturation, brightness, contrast, sharpness adjustable through client software or web browser 15) Profile Management: User configuration import, export 16) Security: User Authentication, Water Marking 17) Onboard Storage: Camera should support built-in Micro SD/SDHC/SDXC Card slot upto 512 GB. It should be supplied with minimum 128GB memory Card. 18) Recording Management: Format SD, overwrite, storage management, video to NAS device 19) Edge Analytics : Tripwire, Intrusion, Motion Detection 20) Alarm Trigger : Motion/tampering detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection 21) Alarm Support: It should have 1/1 Alarm In/ Out Port 22) Audio Support: It should have 1x Built-In Mic and 1/1 Audio In/ Out Port for external Mic. and Speaker (As per site requirement) with G.711U/A/ G.711Mu/ AAC/ G.726 audio compression 23) Network Protocol: SFTP, IPv6, IPv4, DNS,RTCP, NTP, RTP, HTTP, HTTPS, SNMP TCP/IP, PPPoE, NFS, UDP, ICMP, SSL, DHCP, SMTP, RTSPS, unicast					
		24) System Capability: ONVIF 25) VMS: Camera shall support open source VMS 26) Cyber Security: trusted boot, AES 256-bit Encryption, Configuration encryption, trusted execution, Digest, security logs, account lockout, video encryption, IP/MAC filtering, HTTPS, trusted upgrade. 27) Ethernet: 1 RJ 45 10/100 Ethernet port 28) Power Input: The camera should support simultaneous dual power input—12 VDC (via power adapter) and PoE—to ensure continuous operation in the event of a failure in one power source. 29) Power Requirement: 12VDC/24VDC/PoE (802.3af)/ePoE 30) Enclosure: IP67 weather proof, IK10 31) Operating Condition: Ambient Temperature:- (-) 05°C to 50°C, humidity 95% (max) (non-condensing) 32) IR life: 40000 hours or higher 33) Video Bit rate: 32 KBPS - 8 MBPS or better 34) Standards: BIS with ER, STQC Certified, CE, FCC and RoHS					
1.1	40.5.2	5MP/6MP IP IR 2.7 to 4 mm ~12 to 13.5mm or better Varifocal Motorized lens Dome Camera.	Nos.	30	26,993.00	809,790.00	

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

SCHEDULE OF QUANTITIES: IP Based CCTV System							
S NO	DSR E&M 2025/MR	DESCRIPTION	Unit	QTY	RATE	AMOUNT	
						Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
2	40.6	Supplying Installation Testing and Commissioning of 5MP/6 MP IP IR Bullet Camera having following specifications, type of lens and features etc :- 1) Type of Camera: Bullet Camera 2) Image Sensor: 1/2.8" or better progressive Scan CMOS get color image even at night condition 3) Signal System: PAL/NTSC 4) Minimum Illumination: 0.006Lux@ F1.4, AGC ON, 0 lux with IR or better 5) Imaging: 1/3s to 1/30000s, Auto Gain Control, White Balance- Auto, Back Light Compensation, Multizone Privacy Masking, HLC, Digital Watermarking. 6) On Screen Display: Camera should display Camera title, Date & Time in live & recorded video both. 7) Signal to Noise Ratio: > 50 dB 8) Lens Type & Focus: as given below. 9) Day & Night: True Day & Night High Performance Mechanical IR cut filter with auto switch, IR SourceInbuilt IR LED's with effective distance upto 50 Mtrs integrated IR and 30 Mtrs for colour view in night. 10) Video Compression (Minimum): H.265 or better, Audio:- G.711U/A, G.711Mu, G.726, AAC, G.723 11) Wide Dynamic Range: WDR (120dB or more) 12) Digital Noise Reduction: DNR (2D/3D) On/Off 13) Streaming: Triple streaming, configurable 14) Video Streaming & Frame Rates: Triple streaming, configurable Main stream: 5MP/6MP @25/30 fps, Sub streams: D1@25/30 fps or better 15) Image Setting: Rotate Mode, saturation, brightness, contrast, sharpness adjustable through client software or web browser 16) Profile Management: User configuration import, export 17) Security: User Authentication, Digital Water Marking 18) Onboard Storage: Camera should support built-in Micro SD/SDHC/SDXC Card slot upto 512 GB. It should be supplied with minimum 128GB memory Card. 19) Recording Management: Format SD, overwrite, storage management, video to NAS device, 20) Edge Analytics: Tripwire, Intrusion, Motion Detection 21) Alarm Trigger : Motion/tampering detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection 22) Alarm Support: It should have 1/1 Alarm In/ Out Port 23) Audio Support: It should have 1x Built-In Mic and 1/1 Audio In/ Out Port for external Mic. and Speaker (As per site requirement) with G.711U/A / G.711Mu/ AAC/ G.726 audio compression					
		24) Network Protocol: SFTP, IPv6, IPv4, DNS,RTCP, NTP, RTP, HTTP, HTTPS, SNMP TCP/IP, PPPoE, NFS, UDP, ICMP, SSL, DHCP, SMTP, RTSPS, unicast, 25) System Capability: ONVIF 26) VMS: Camera shall support open source VMS 27) Cyber Security: trusted boot, AES 256-bit Encryption, Configuration encryption, trusted execution, Digest, security logs, account lockout, video encryption, IP/MAC filtering, HTTPS, trusted upgrade. 28) Ethernet: 1 RJ 45 10/100 Ethernet port 29) Power Input: The camera should support simultaneous dual power input—12 VDC (via power adapter) and PoE—to ensure continuous operation in the event of a failure in one power source. 30) Power Requirement: 12VDC/24V DC/PoE (802.3af)/ePoE 31) Enclosure: IP67 weather proof, IK10 32) Operating Condition: Ambient Temperature:- (-)05°C to 50°C, humidity 95% (max) (non-condensing) 33) IR life: 40000 hours or higher 34) Video Bit rate: 32 KBPS - 8 MBPS or better 35) Standards: BIS with ER, STQC Certified, CE, FCC and RoHS					

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

SCHEDULE OF QUANTITIES: IP Based CCTV System							
S NO	DSR E&M 2025/MR	DESCRIPTION	Unit	QTY	RATE	AMOUNT	
						Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
2.1	40.6.2	5MP/6MP IP IR 2.7 to 4 mm ~12 to 13.5mm or better Varifocal Motorized lens outdoor Bullet Camera.	Nos.	5	26,993.00	134,965.00	
3	40.9	Supplying Installation Testing and Commissioning of PTZ (Pan,Tilt and Zoom) IP IR Camera having following spcifications and features etc.: PTZ (Pan,Tilt and Zoom) IP IR Camera having following spcifications and features etc :- 1) IP IR PTZ Camera: Motorized PAN TILT ZOOM with IR 2) Image Sensor: 1/2.8" or better progressive Scan CMOS 3) Signal System: PAL/NTSC 4) Minimum Illumination: 0.008 Lux@ F1.6, AGC ON, 0 lux with IR, or better 5) Imaging: 1/1s to 1/30000s, Auto Gain Control, White Balance- Auto, Back Light Compensation, Image Rotation, Multi zone Privacy Masking (Upto 24 Area), HLC, Defog, Region Of Interest and EIS features. 6) On Screen Display: Camera should display Camera title, Date & Time in live & recorded video both. 7) Signal to Noise Ratio: > 50 dB 8) Event Notification: Through Relays, E-Mails or FTP 9) Day & Night: True Day & Night High Performance Mechanical IR cut filter with auto switch, IR SourceInbuilt IR LED's with effective distance. The camera should have IR LED's and cover distance up to 300 meter or above 10) Auto Tracking: The camera should be equipped with Deep-learning-based auto tracking function using simultaneously all of the panning, tilting and zooming should be available. When a motion is detected in a registered monitoring area, the camera should track the motion (object) and capture it. 11) Pre/Post Event Buffering: The camera should support atleast of 5 seconds of pre & post event buffering. 12) Presets: 300 Presets 13) Video Compression (Minimum): H.265 or better, H.264, Audio:- G.711U/A, G.711Mu, G.726, AAC,G.723 14) Wide Dynamic Range: WDR (120dB or more), HLC & BLC 15) Digital Noise Reduction: DNR (2D+3D) On/Off 16) Image Setting: Rotate Mode, ROI ,EIS, Defog, saturation, brightness, contrast, sharpness adjustable through client software or web browser 17) Profile Management: User configuration import, export 18) Cyber Security: Configuration encryption, AES 256-bit Encryption, Digest, account lockout, video encryption, IP/MAC filtering, trusted boot, trusted upgrade, trusted execution 19) Onboard Storage: Camera should support built in Micro SD/SDHC/SDXC Card slot upto 512 GB . It should be supplied with minimum 128GB Memory. 20) Recording Management: Format SD, overwrite, storage management, video to NAS device, remote archive access via FTP login					

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

SCHEDULE OF QUANTITIES: IP Based CCTV System							
S NO	DSR E&M 2025/MR	DESCRIPTION	Unit	QTY	RATE	AMOUNT	
						Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
		21) Edge based Video Analytics & Alarm Trigger: Motion/tampering detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection, Tripwire, Intrusion, Object Abandon/ Missing, SMD, Face Detection 22) Network Protocol: SFTP, IPv6, IPv4, DNS,NTP, HTTP, HTTPS, SNMP, TCP/IP, PPPoE, NFS, ICMP, DHCP, SMTP, RTSPS. 23) System Capability: ONVIF Profile S, G & T. CCTV Camera OEM should be fulltime member of ONVIF and quoted models should be listed on ONVIF official website (All the certifications & Credentials should be valid on the date of technical evaluation). 24) VMS: Camera shall support open source VMS 25) Connectivity: 1x LAN RJ-45 (10/100Base-T) 26) Audio Support: Audio Interface : The camera should have 1/1 Audio In/Out to connect External Mic and Speaker Audio Compression : PCM, G.711U/A, G.711MU, G.726, MPEG2-Layer2, G.722.1 27) Alarm In/Out : Alarm In/out- 7/2 Ch In/Out 28) Power Input: The camera should support simultaneous dual power input—DC/ AC (via power adapter) and PoE (802.3af)—to ensure continuous operation in the event of a failure in one power source. 29) Power Requirement: 24 VDC, 2.5 A (± 25%), PoE+ (802.3at) 30) Enclosure & Weather Proof Standard: IP67 weather proof and IK10, TVS 8000V lightning proof, surge protection, voltage transient protection 31) Operating Condition:- Ambient Temperature:- (-)05°C to 50°C, humidity 95% (max) (non-condensing) 32) IR life: 40000 hours or higher 33) Video Bit rate: 32 KBPS - 8 MBPS or better 34) Standards: BIS with ER, STQC Certified, CE, FCC and RoHS					
3.1	40.9.3	5MP IP IR motorized PTZ @25/30fps or better camera, Triple streaming , configurable on resolution:- Main stream: 5MP@25/ 30fps Sub streams:1080p@25/30 fps, varifocal lens 3.95mm (±5mm) ~ 177.75mm (±5mm) or better with Automatic & manual Focus Adjustment provisions, 45x Optical zoom and 16x Digital zoom with angle of view H: 65.7°–1.9°V: 39.4°–1.1°D: 73.1°–2.1, PAN Travel: Pan: 0° ~ 360° endless,Manual Pan: 260° /s, Preset : 300° /s, Tilt Travel: Tilt: -20° ~ 90°, auto flip 180°, Manual Tilt: 120° /s, Preset : 200° /s	Nos.	0	107,974.00	0.00	

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

SCHEDULE OF QUANTITIES: IP Based CCTV System							
S NO	DSR E&M 2025/MR	DESCRIPTION	Unit	QTY	RATE	AMOUNT	
						Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
		Supplying Installation Testing and Commissioning of following Channel Network Video Recorder (NVR) with camera licenses to record for all channels having specifications and features etc as mentioned below : 1) Network Video Recorder Embedded/ Installed OS (Linux) along with Camera Licenses to record per NVR and to provide a live view, storage and simultaneously Multi-channel playback of all IP camera or more and must be ONVIF with minimum support of 384 Mbps incoming Bandwidth. 2) NVR should support video compressions : H.265 or better, H.264, MJPEG. 3) Must support 1 channel RCA Input, 2 channel RCA Output for Two-way Talk with G.711U/A, G.711u, PCM, G726 audio compressions. 4) Intelligent auto power on when power resumes after power outage. 5) Storage: It should support minimum 8 SATA Slots with 20TB capacity/ Slot and RAID support of RAID 0/1/5/6/10. 6) Connectivity Interface : 2 Nos. x 10/100/1000 Mbps Ethernet Ports, 1x RS485, 1x RS232, 1x eSATA Port 7) Backup Interface : Its should have 4 Nosx USB port (2x USB3.0, 2xUSB2.0) 8) Video Output Ports: 2x HDMI and 2 VGA 9) Alarm Ports: It should have 16/8 Ch In/ Out ports to connect various type of external sensors and output devices like hooter/ Siren etc. 10) Email & SMS Alert options: Option for SMS/ Email Alerts to minimum 5 designated mobile number for power failure, HDD failure, vandalism, tempring, network disconnection and panic 11) Web & Mobile Application: Web, Mobile app (For iPhone, iPad, Android Phone) for alerts and viewing. 12) Protocols: HTTP, HTTPS, TCP/IP, IPv4/IPv6,UDP, DHCP, DNS, SMTP, UPnP, IP Filter, PPPoE, FTP, DDNS, Alarm Server, IP Search, Multicast, Auto Registration, ONVIF (Profile T, Profile S, Profile G), CGI, SDK and OEM Cloud for remote monitoring without any public IP need. 13) Standards: CE, FCC, RoHS, BIS Certified 14) Power Supply : Should support AC100-240V, 50/60Hz Power supply. 15) Operating Condition : -5°C to 50°C, humidity 90% (max) (non-condensing) 16) The VMS application shall support all the features & functionalities of the offered cameras. 17) VMS should consist Licenses for all channels to record Cameras with General, motion detection, intelligent, alarm and POS recording modes. VMS should be provided with Camera Licenses , with no dependency of VMS licenses by binding with the MAC address of the cameras to achieve the functionality. 18) The NVR OEM shall be responsible for providing a mobile application compatible with both Android and iOS devices, enabling remote monitoring and playback of cameras/NVR footage.					

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

SCHEDULE OF QUANTITIES: IP Based CCTV System							
S NO	DSR E&M 2025/MR	DESCRIPTION	Unit	QTY	RATE	AMOUNT	
						Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
4	40.11	19) The OEM must provide its own DDNS server hosted in India, eliminating the need for a public IP address for remote monitoring over the Internet. 20) Must support Continuous, Alarm, Motion, Instant, Panic Recording Mode 21) It should support Resolution: 32MP; 24MP; 16MP; 12MP; 8MP; 5MP; 4MP; 1080p; 720p; D1; CIF; QCIF 22) When alarm recording is enabled and an event occurs, you can click the alarm icon on monitoring page to view the alert details. The snapshot function is supported on monitoring and playback page 23) The Network Video Recorder (NVR) shall be configured to send email whenever a system message is created or an alarm event occurs. The email server shall be a valid SMTP server. Each recipient email address shall be configured to receive any combination of critical, warning, or informational messages or alarm notifications. When an alarm occurs, the email message includes the NVR name, time of alarm and a list of camera that is configured to record upon alarm 24) It should have Web and GUI interface. 25) Built-In Artificial Intelligence: NVR should have built-in AI :- - 2 Channel face detection and recognition, - Minimum 4 Channel perimeter protection, - Minimum 8 Channel Smart Motion Detection 26) Face Recognition Database Capacity: It should support total Blacklist and Whitelist capacity of Minimum 20,000 Faces or more with Face Detection speed of 12 face images/sec and facility to add Name, gender, birthday, address, credential type, credential No., countries & regions and state to each face image. 27) Face & Human Attributes Search: Search Pictures/ Video by Gender, age group, glasses, expressions, face mask, beard, Top color, top type, hat, bag, age, gender and umbrella. 28) ANPR Capability: It should support ANPR Camera with License plate, plate color, vehicle body, vehicle model, vehicle logo, calling, seatbelt, vehicle registration location etc vehicle attributes. 29) Alarm Notifications based on: Motion detection, video tampering, video loss, scene changing, PIR alarm, Camera external alarm, Face detection, face recognition, perimeter protection (intrusion and tripwire), ANPR, people counting, stereo analysis, crowd distribution, heat map, Disk Full, Storage Error, IP Conflict and abnormal behavior of fan, cybersecurity exception 30) Alarm Notification should be linked with Recording, snapshots, Camera external alarm output, buzzer, logs, presets and email. 31) General AI Based Search: Search Pictures by channel, time, event type, target classification (Fall Detection, People Approach Detection, People No. Exception Detection, People Staying Detection, Violence Detection. 32) Smart playback function: Should support smart search for the selected area in the video and smart playback to improve the playback efficiency 33) VCA (Video Content Analytic): Should support multiple video contented analytics based on camera analytics 34) Analytics by NVR: Perimeter protection and face recognition					
4.1	40.11.2	64 Channel Network Video Recorder (NVR) having display split :- Main screen: 1/4/8/9/16/25/32(36), 2nd screen: 1/4/8/9/16	Nos.	1	82,600.00	82,600.00	
5	40.12	Supplying, Installation, Testing and Commissioning following capacity Surveillance grade Hard Disk with upto 256MB/s Transfer Rate, 256 MB Cache, 7200 RPM Disk Speed, 3.5 inch form factor, SATA Interface, BSML, ICES-003/NNB-003, CE, FCC, KC, Maghreb, RCM, UKCA, VCCI, CB-Scheme, TUV, UL Certifications.					
5.1	40.12.4	10TB (Terabytes)	Nos.	2	24,798.00	49,596.00	
6	42.4	Supplying, Installation, Testing and Commissioning of following size LED display (LED monitor) industrial grade with 3840x2160 resolution or better, USB playback, bluetooth and miracast connectivity, 4X HDMI 2.0, DP 1.2, HDR 10/10+, brightness: 500-nits or better, Video wall mode should be available, contrast ratio: 1200:1, OPS slot, viewing angle (H/V): 170°/ 170°, response time less than 12ms, Display control shall be on monitor screen and programmable with remote (remote shall be supplied with system), Key Board, Optical Mouse, etc. as required.					
6.1	42.4.3	55 inch or larger	Nos.	1	82,057.00	82,057.00	
TOTAL						1,159,008.00	0.00

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

Schedule of Qunatities: Integrated Access Control System								
S No	DSR E&M 2025/MR	Item Description	Qty	Unit	Rate	Amount DSR	Amount NON DSR	
						All Figures in Rs.	All Figures in Rs.	
1	41.1	Access Control System with Face recognition Supplying, Installation, Testing and Commissioning of Access Control System comprising of Face and fingerprint Recognition, Smart Card, QR Code, NFC & PIN Code based Reader, following sizes of 5" IPS TFT Touch Screens, 1GB RAM, 8 GB ROM, Live Face Detection with anti-spoofing against 2D photograph, mobile selfie & video, Fake Fingerprint and face Detection Technology, 30,000 Face storage (1:N) /, 3,000 fingerprint (1:N), QR code 30,000, 30,000 card storage (1:N), 2 lakh transaction storage, 20,000 image logs, onboard dual camera (colour & IR) Primary camera min 2MP, Support authentication & verification from up to 1 meters, Communication protocols WiFi, TCP/IP, Wiegand Out, Wiegand IN, USB, MQTT protocol, Blacklist Employee Management, User wise authentication modes; Built in Lock Control, Mask Detection & Alert (configurable), 40 to 30,000 lux illumination, IP65 for Ingress Protection, Certification: CE, FCC, BIS, ROHS, etc. Metal Enclosure with battery backup, suitable for mounting on metal surface/metal frames/ wooden frames/wall/flap barriers including all mounting bracket & accessories complete etc. as required.						
1.1	41.1.1	5" IPS TFT Touch Screen	1	Each	58,306.00	58,306.00		
2	41.5	Software for Web based Access Control System Supplying, Installation, Testing and Commissioning of Web based Access Control Enrolment and Device Configuration Software, Should be independent of OS (Windows), Unified Management of Biometric, Card, and Controllers, Import Functionality for bulk user details, Biometric Template Retrieval for Data Recovery, User Management, Logs and Terminal Management, Support for IP-based and USB Biometric Devices, User-specific Access Policies, Different User Policies on the Same Terminal, Assignment of Specific Access Schedules, Pushing Users to Terminals or Groups, Admin Authority Management to define rights of each user to perform, Blacklist User Management, Access Schedule Creation, Real-Time Log Retrieval, Real- Time User Identification, Secure Storage of Biometric/Users Data, Capable to integrate with 3rd party applications over Web API's, MQTT protocol support	1	Nos	97,176.00	97,176.00		
3	41.6	Electromagnetic locks Supplying, Installation, Testing and Commissioning of Electromagnetic locks (fail safe type) for following type of Doors suitable for operation on 12 V DC having holding force 600 lbs for Single Leaf Door and 1200lbs for Double leaf door with suitable feedback i/c connection complete etc. as required.						
3.1	41.6.1	Single leaf door	1	Nos	4,831.00	4,831.00		
3.2	41.6.2	Double leaf door (Each leaf 600lbs & Total 1200 lbs)	1	Nos	7,593.00	7,593.00		
4	41.7	Exit Push Button: Supplying, Installation, Testing and Commissioning of Heavy Duty SS Finish Exit Push Button for releasing access doors with all necessary installation accessories i/c connection complete etc. as required.	1	Nos	1,173.00	1,173.00		
5	41.8	Door Position Sensor Supplying, Installation, Testing and Commissioning of Door Position Sensor i/e connection complete etc. as required.	1	Nos	622.00	622.00		
6	MR	Supply, Installation, Testing & Commissioning of Smart card Frequency Excitation (13.56 MHz) Mifare smart Card , distance upto 2.5" Memory Type EEPROM, 2K bit memory Complies with ISO/IEC standards for thickness. Lifetime Warranty .etc. as per specifications of this tender etc complete as required and directions of Engineer-in-Charge.	5	No.	452.00		2,260.00	
7	MR	Supply, Installation, Testing & Commissioning of 3 core 1.5 Shielded communication multi-stand Data Cable etc. as per specifications of this tender etc complete as required and directions of Engineer-in-Charge.	30	Mtr	147.00		4,410.00	
		TOTAL				169,701.00	6,670.00	

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

Schedule of Quantities : Audio Visual System							
S No	DSR E&M 2025/ MR	Item Description	Unit	Qty	Rate	Amount DSR	Amount NDSR
						All Figures in Rs.	All Figures in Rs.
1	MR	SITC of Digital Standees with sleek and slim design with tempered glass protection with digital sinage and IR touch option. Minimum 55" display for better viewing and for 24x7 operation with native resolution of 1080x1920 and brightness 350cdm2 contrast ratio 5000:1 with all required accessiores	Nos	1	225,000.00		225,000.00
2	MR	SITC of 98" 4k, UHD Professional Signedge Display with 300 NITS, 24*7 ,Built in SOC/ Media Playerwith Quad Core Processor, Built in Open Platform Android 11, 3X HDMI, Audio Input Audio Output, Built in Speaker(12W x 2) ;Including mounting bracket, Built-in Chromecast, Dolby Digital audio HDMI-CEC device linking supported, 3 USB(2.0), 3*HDMI(2.0 Side), Headphone Out, 1 *RJ 45, SPDIF out, Built In 2.4 GHZ Wifi,CPU Built in Mali G31 MP2 GPU-A55*4, 1.1 GHz Processer, 4 GB RAM 32GB Storage,Metal Frame 12 W built speakers, etc all required	Nos	1	915,990.00		915,990.00
3	MR	SITC of Screen Size 75" Interactive display Pixel Pitch 0.429 x 0.429 mm, Resolution 3840 (H) x 2160 (V) 4K, Brightness ≤500 Nits, Contrast Ratio ≤4000, Viewing angle 178°,178°, Response time 5ms, Display color 8 bit/16.7 Million, Backlight DLED,Speakers 2*15W etc all required	Nos	2	207,990.00		415,980.00
4	MR	SITC of 65" 4k, UHD Professional Signedge Display with 300 NITS, 24*7 ,Built in SOC/ Media Playerwith Quad Core Processor, Built in Open Platform Android 11, 3X HDMI, Audio Input Audio Output, Built in Speaker(12W x 2) ;Including mounting bracket, Built-in Chromecast, Dolby Digital audio HDMI-CEC device linking supported, 3 USB(2.0), 3*HDMI(2.0 Side), Headphone Out, 1 *RJ 45, SPDIF out, Built In 2.4 GHZ Wifi,CPU Built in Mali G31 MP2 GPU-A55*4, 1.1 GHz Processer, 4 GB RAM 32GB Storage,Metal Frame 12 W built speakers, etc all required	Nos	2	117,150.00		234,300.00
5	MR	SITC of Ultra Thin Retractable Touch Monitor Lifter With Screen, Material: Full aluminum alloy, Monitor: 15.6 inch FHD Screen (16:9) , Resolution ratio: 1920*1080 , Screen Brightness: 400 cd/m2 , Contrast: 1500:1 Full Angle Automatic Pitch Angle: 15 degree Manual Pitch Angle: 0-30 degree Interface: HDMI+RS232 I/O+USB With Anti-Pinching Function etc all complete	Nos	1	277,850.00		277,850.00
6	MR	SITC of Fixed Wall Mount, capable of holding up to 75 kg and supports 37" to 100" displays, VESA Compliant etc all complete	Nos	2	9,980.00		19,960.00
7	MR	SITC of Cable Cubby with flip top, cover and 6 Pass Through Holes for multi-format cables, 2 Universal Power Socket , 1 HDMI, 1 USB-C for Data Transfer, made of aluminium etc all complete etc all complete	Nos	2	20,900.00		41,800.00
8	MR	SITC of Digital Podium one shelf, with Dual Gooseneck Microphone connectivity and LED Light, Power extension, along with touch screen to view the main screen content with all required accessories etc all complete.	Nos	1	275,670.00		275,670.00
9	MR	SITC of Network PTZ Conference Camera, 20x optical zoom and 60° horizontal FoV, 1/2.8" low-noise CMOS Sensor, Sensor Scanning Mode: Progressive, Horizontal Rotation Range: ±170°, Vertical Rotation Range: -30° to +90°, Image rotation for ceiling mounting, White Balance: Auto, indoor, outdoor, one-push, manual, specified color temperature, IP Stream Resolutions: H.264 @ 360p, 270p or 180p, a single network cable for video, power and control data transport, HDMI 2.0 and 3G-SDI Outputs Power Over Ethernet (PoE) support etc all complete	Nos	1	572,555.00		572,555.00

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

Schedule of Quantities : Audio Visual System							
S No	DSR E&M 2025/ MR	Item Description	Unit	Qty	Rate	Amount DSR	Amount NDSR
						All Figures in Rs.	All Figures in Rs.
10	MR	SITC of Network PTZ Conference Camera, 12x optical zoom and 60° horizontal FoV, 1/2.8" low-noise CMOS Sensor, Sensor Scanning Mode: Progressive, Horizontal Rotation Range: ±170°, Vertical Rotation Range: -30° to +90°, Image rotation for ceiling mounting, White Balance: Auto, indoor, outdoor, one-push, manual, specified color temperature, IP Stream Resolutions: H.264 @ 360p, 270p or 180p, a single network cable for video, power and control data transport, HDMI 2.0 and 3G-SDI Outputs Power Over Ethernet (PoE) support etc all complete	Nos	1	432,555.00		432,555.00
11	MR	SITC of 4-Input 4K Wireless Presentation and Conferencing System with Matrix Outputs, USB 3.0, Multiview & Wireless Casting, Automatic or manual switching of 4 connected sources (2 HDMI & 2 USB-C) with assignable USB host connection, 60W PD on the USB C Ports, Supports input resolutions up to 4K30 4:4:4 via USB-C or HDMI Inputs: 2x HDMI In: 19-pin Type A, 2x USB-C, Wireless Video from Airplay or Miracast Source and casting dongle (1 dongle included), Outputs: 2x HDMI Out: 19-pin Type A, 1x Analog Audio Out, Video Resolutions (Max): HDMI Out 1 – 3840x2160p @60Hz 4:4:4, HDMI Out 2 – 3840x2160p @30Hz 4:4:4, USB: 3x USB 3.0 Type A device ports 5v 10000mA per port, 2x USB 3.0 Type B host ports (assignable), RS-232: 1x 4-pin Phoenix (API control) Provides 12V Power, LAN: 3x 8-pin RJ-45 Ethernet Ports, Wireless: 4x Wi-Fi Antennas IEEE 802.11 a/b/g/n/ac Dual-band 2.4 & 5GHz WEP, TKIP, AES, WPA, WPA2, Built-in USB 3.0 hub for connection of peripheral devices such as speakerphones or cameras, USB-C input supports alt-mode for both A/V, Ethernet, and Data communication over a single cable, Built-in wireless access point for secure and isolated communication to screensharing devices, Wireless access point supports custom SSID, password and screensharing access PIN etc all complete	Nos	1	295,950.00		295,950.00
12	MR	SITC of professional-grade Presentation & Collaboration Switcher suitable for conference rooms, boardrooms, AV environment with HDMI and USB-C connectivity, 2 HDMI Inputs, 2 USB-C connectivity (4K Video, Audio, Data, Power charge), 2 HDMI Outputs, 4 USB-A 3.0 Connection (for USB Devices), 2 USB-B 3.0 Connection (for PC hosts), USB host switching, Analog audio de-embedding, Charging via USB-C up to 60w, Supports HDMI 4K signal formats (4K UHD @60Hz RGB 4:4:4, up to 18 Gbps), HDMI 2.0, HDMI 1.x, HDCP 1.x, HDCP 2.2 support etc all complete	Nos	1	275,990.00		275,990.00
13	MR	SITC of 4x4 HDMI Matrix Switcher Uncompressed HDMI signal distribution supporting full 18Gbps bandwidth and 5K/60 4:2:0 video content, Balanced analog and digital S/PDIF audio de-embed for distributing audio to an amplifier or DSP EDID Management through API or front panel buttons, HDMI 2.0 HDCP 2.2 EDID CEC (display power trigger) 3 years warranty	Nos	1	229,850.00		229,850.00
14	MR	SITC of 4K UHD HDBaseT Extender Set (Transmitter & receiver)with HDCP 2.2 & 2-way PoH., Extends 4K UHD video content to 35m/115ft, Extends 1080p HDMI signal to 70m/230ft, HDCP 2.2 encryption compliant, Compatible with 2160p 4:2:0 60Hz or 4:4:4 & RGB 30Hz Content, Automatic EDID Management etc all complete with 3 years warranty	Nos	2	60,170.00		120,340.00

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

Schedule of Quantities : Audio Visual System							
S No	DSR E&M 2025/ MR	Item Description	Unit	Qty	Rate	Amount DSR	Amount NDSR
						All Figures in Rs.	All Figures in Rs.
15	MR	SITC of Ceiling Tile Beamforming Microphone with Integrated DSP comprising minimum 128-element MEMS microphone array with beamforming and advanced algorithms including AEC, AGC, ANS, AFS, and reverberation reduction. The unit shall provide frequency response of 75 Hz to 20 kHz, 48 kHz/24-bit sampling, signal-to-noise ratio of 70 dB or better, and support balanced analog and Dante network audio outputs. The microphone shall support 2 × 2 Dante channels, RS-485 control, and 12 V DC / 48 V phantom power or PoE. The unit shall be suitable for flush or suspended ceiling mounting and supplied complete with all required accessories.	Nos	1	579,950.00		579,950.00
16	MR	SITC of Wireless System with Handheld Transmitter, Supercardioid Dynamic Microphone capsule , 24-bit digital audio, Extended 20 Hz to 20 kHz frequency range, 118 dB dynamic range, Digital predictive switching diversity, 44 MHz tuning bandwidth, 32 available channels per frequency band, Up to 10 compatible systems per 6MHz TV band; 12 systems per 8 MHz band, RF Carrier Frequency Range: 470–937.5 MHz, Working Range 100 m (328 ft), Network Interface, RF Power: 10 mW, Antenna Type: Integrated Single-Band Helical, Up to 8 hours from 2 AA batteries or rechargeable battery etc all complete with 3 years warranty	Nos	3	85,670.00		257,010.00
17	MR	SITC of Wireless System with Beltpack Transmitter, Omnidirectional Condenser Lavalier Microphone , 24-bit digital audio, Extended 20 Hz to 20 kHz frequency range, 118 dB dynamic range, Digital predictive switching diversity, 44 MHz tuning bandwidth, 32 available channels per frequency band, Up to 10 compatible systems per 6MHz TV band; 12 systems per 8 MHz band, RF Carrier Frequency Range: 470–937.5 MHz, Working Range 100 m (328 ft), Network Interface, RF Power: 10 mW, Antenna Type: Integrated Single-Band Helical, Up to 8 hours from 2 AA batteries or rechargeable battery etc all complete with 3 years warranty	Nos	1	89,550.00		89,550.00
18	MR	SITC of 12" Gooseneck Condenser Microphone, Inline Pre-Amp, Mute Switch, Light-Ring, Cardioid, Electret Condenser, Frequency Response 70–16000 Hz, Output Impedance: 180 Ω, Maximum SPL: 120 dB SPL, Dynamic Range: 93 dB etc all complete	Nos	2	39,760.00		79,520.00
19	MR	SITC of Open Architecture Digital Signal Processor with 64-bit architecture. Audio Processing - 32-bit floating point. Mic/Line Inputs - 16 or more with +48VDC Phantom Power on each channel. Line Outputs -8 or more. GPIO ports for external control - 8x8 or more. AEC channels - 24 or more with 200ms tail length for Analog and Networked Microphones. Minimum 8x8 Dante channels and support for up to 128x128 Network audio channels via Dante /AES67 or similar protocol. SIP Softphone integration for Audio conferencing. USB port for AV USB Bridging for software or web-based conferencing applications emulating USB Audio (Speakerphone) and USB Video (Camera) driver. USB Audio Bit depth - minimum 24 bit, USB Channel - 16x16 or more, USB Sample rate - 48 kHz, A/D-D/A converters - 24 bit or better, Sample Rate - 48 kHz, Input frequency response - 20 Hz to 20 kHz or better, Input and Output dynamic range > 108 dB or better. Front Panel Control and Indicators with OLED Display.. etc all complete	Nos	1	623,920.00		623,920.00

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

Schedule of Quantities : Audio Visual System							
S No	DSR E&M 2025/ MR	Item Description	Unit	Qty	Rate	Amount DSR	Amount NDSR
						All Figures in Rs.	All Figures in Rs.
20	MR	SITC of Digital signalprocessor 6 balanced mic/line inputs and 1 unbalanced stereo auxiliary input, 2 balanced outputs and 1 unbalanced stereo output, USB Audio I/O (for soft codecs), Network (RJ-45) port, and Audio-Technica LINK (for cascading up to 8 mixers), Acoustic echo cancellation (AEC), 4-band parametric EQ and de-esser on each input, feedback suppressors, and noise cancellation etc all complete	Nos	2	160,190.00		320,380.00
21	MR	SITC of 6.5-inch, 2-Way Ceiling Speaker, Rated Power: 30W, Frequency Range: 65 Hz – 20 kHz, Sensitivity: 88 dB, Rated Coverage 135° conical DMT, Maximum continuous SPL 106 dB, Nominal impedance: 8 / 16 Ohm, Transformer taps: 30W / 15W at 100 / 70V, IP-34 Rated, Low-saturation and low-loss 70/100V transformers with 16Ω bypass, UL and CE Certified etc all complete	Nos	14	27,355.00		382,970.00
22	MR	SITC of 4 Channel Class-D Amplifier, Power (per channels driven): 200 W at 8 Ω / 4 Ω / 100V / 70V, FlexAmp Technology, Frequency Response: 20 Hz – 20 kHz, Signal to Noise > 103 dB, Input impedance >10k, balanced or unbalanced, User-configurable operating modes, UL, CE, RoHS/WEEE compliant etc all complete	Nos	3	176,560.00		529,680.00
23	MR	SITC of 4 x 4 USB 3.2 Gen 1 Industrial Hub Switch, Enables 4 computers to share 4 USB 3.2 Gen1 devices Support port selection via remote controller or RS-422/RS-485 link through 5-pin terminal block Supports DC 9-24V power input by terminal block, Supports USB BC 1.2 and over current protection	Nos	1	54,225.00		54,225.00
24	MR	SITC of 10.2" Apple iPad LED-backlit Multi-Touch display with IPS technology with User Control Interface (UCI) Deployment etc all complete	Nos	1	64,245.00		64,245.00
25	MR	SITC of 24-Port Gigabit PoE+ Ethernet Smart Switch with 2 SFP Ports and Cloud Management etc all complete	Nos	1	88,700.00		88,700.00
26	MR	SITC of 2 Meter Premium High Speed HDMI 2.0b Flexy Cable, Bandwidth up to 18Gbps, Up to 4096x2160@60Hz at RGB 4:4:4 video resolution, High Dynamic Range (HDR10), Dolby Vision and Hybrid log-gamma (HLG) video etc all complete	Nos	18	3,270.00		58,860.00
27	MR	SITC of 10 Meter Active Copper HDMI Cable, Data Rate: Up to 18.2Gbps, Colour Depth: Up to 16 bits, Colour Formats: RGB 4:4:4 / Y'CBCR 4:2:2 / Y'CBCR 4:2:0, Consumer Electronic Control (CEC), Auto Lip-Sync Correction, Audio Return Channel (ARC), Enhanced Audio Return Channel (eARC), High Dynamic Range (HDR) etc all complete	Nos	3	15,770.00		47,310.00
28	MR	SITC of 2 Meter USB Full-Featured Type-C cable for USB 3.1 Gen2, 4 Lane Displayport Alt mode (4K60FPS Video and Audio), Supporting peripherals via USB 2.0 up to 480 Mbps (Mouse, Keyboard, Thumb Drive, Speakerphone and Webcam) etc all complete	Nos	14	4,370.00		61,180.00
29	MR	SITC of 10 Meter USB 3.1 Gen1 SuperSpeed Active Extension Cable TypeA/male to TypeA/female, Supports 4K Webcam, SSD storage, Native USB2/USB1 and USB3 extension, Plug and play compatible with PC, Mac, and Linux etc all complete	Nos	4	29,990.00		119,960.00
30	MR	SITC of 2 Conductor 16 AWG Speaker Cable, stranded Bare copper conductors, PVC/Nylon insulation, PVC jacket (as per actual) etc all complete	Nos	450	195.00		87,750.00
31	MR	SITC of Microphone cable PVC/Nylon insulation, PVC jacket (as per actual) etc all complete	Nos	300	215.00		64,500.00

Contractor

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Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

Schedule of Quantities : Audio Visual System							
S No	DSR E&M 2025/ MR	Item Description	Unit	Qty	Rate	Amount DSR	Amount NDSR
						All Figures in Rs.	All Figures in Rs.
32	MR	SITC of Category 6A Cable, 4 Pair, S/FTP, PVC jacket (as per actual) etc all complete	Nos	250	95.00		23,750.00
33	MR	SITC of Various Cables, relay modules & Connectors etc all complete	Nos	4	17,950.00		71,800.00
34	MR	SITC of 24U, Equipment Rack, with Front & Side doors, 4 No Fan Assembly, on Top of the Rack, 4 Caster wheels, 2 no Shelves to mount the equipments which are not rack mounted, 8X2, 5/6 Amp. Power Distribution Unit, Cable Manager & Sufficient Rack hardwares etc all complete	Nos	1	48,950.00		48,950.00
		TOTAL					7,988,000.00

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

Schedule of Quantities: Substation							
DSR E&M 2025/ MR	S No	Description	QTY	UNIT	Rate	Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
	A	Sub Head - I : Transformer					
24.27	1	Supply, installation, testing and commissioning of following capacity (continuous loading) 11/0.433 KV Delta/Star,step down, 3 Phase, 50 Hz, Dyn 11 vector group, Cast Resin / VPI (vacuum pressure impregnated) Dry Type, copper wound transformer (Electrolytic grade 99.9% pure copper, Core made of first grade Cold Rolled Grain Oriented (CRGO) Core grade MOH or better) AN (air natural) cooled transformer suitable for indoor applications with Offload Tap Changer/ On Load Tap Changer (OLTC) (upto 500 KVA offload and above 500 KVA On Load Tap Changer) on HV side having AVR relay and Remote Tap Changer Control (RTCC) for automatic sensing of incoming voltage, automatic operation of OLTC and facility for remote and manual operation of OLTC HV side in range of +5% to -15% in steps of 2.5%, insulation class F (minimum), suitable for environment conditions class E4, suitable for fire behaviour class F1,climate class-C1, having cable end boxes on HV side suitable for 3x300 sqmm XLPE cable of 11 KV grade with necessary hardware, clamps, lugs etc. for termination on HV/MV etc. for all transformers, bus trunking arrangement on LV side complete with all accessories and safety provisions as per relevant IS Code. The transformer shall be provided with standard fittings/accessories as per relevant IS and mentioned below, protection alarm/trip protection, 3 nos. of Polymeric Zinc Oxide surge Arrestors on HV Side. Winding Temperature scanner (Digital) with alarm/Trip contacts with RTD Sensors per LV winding and space for mounting differential protection CT's in LV chamber with neutral brought out separately including supplying and laying of copper conductor multicore control cable from transformer to HT breaker/HT Panel for safety tripping, complete as confirming to IS-2026 Part-11, i/c supplying and grouting of suitable M.S. Channel with all accessories ,complete in all respects as required at site as per CPWD specifications . Design ambient condition : a) air temperature 50 0C, b) Relative Humidity 90 % Max, c) Seismic Zone as per location of site, d) Altitude as per location/site. The transformer should have QR code which should contain drawing, test report OEM manual,Geo- Tag of manufacturing location, rating plate as per relevant IS Code etc. All testing shall as per relevant IS Code. Noise level Shall not exceed limits as per NEMA TR-1 with all accessories running measured as per IEC 551/ NEMA Standard. Fitting and Accessories : The following fittings shall be provided:- a) Two earthing terminals with the earthing symbol b) Rating and terminal marking plates; c) Thermometer pocket with cap; d) Lifting lugs for the complete transformer as well as for core and winding assembly; e) Bi-directional flat rollers (for transformers above 200 kVA); f) HV side neutral grounding strip (where one of the HV bushing terminal is connected to earth); g) Arcing horns or suitable rating lightning arrestors for HT side – 3 Nos. for transformers up to 200 kVA; h) Bird guard; i) Jacking pads (for transformer above 1 600 kVA); j) Name Rating & Diagram Plate. k) Monogram Plate.i) Additional neutral separately brought out on bushing for earthing. Level 5					
24.27.38	1.1	1000 KVA (losses at 50% loading < 2620watt, losses at 100% loading < 7000watt)	1	Each	3022538.00	3022538.00	
25.2	2	HYBRID Power Factor Correction System					

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

DSR E&M 2025/ MR	S No	Description	QTY	UNIT	Rate	Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
		Supply, Installation, testing and commissioning of HYBRID APFC Panel, 3 phase 4 wire, 415 V, 50 Hz AC System for Ambient temperature -5°C to +40°C of following capacity with passive solution of 60% capacity and active solution of 40% capacity, 3Phase 4 wire Hybrid Power Factor Correction Solution (with arrangement for neutral current balance) to achieve >0.99 lag and TDDI/THDV values within IEEE recommended limits. APFC should be designed as per IS 16636 Or IEC 61921. The active section and passive section shall work in sync to give optimized output. The degree of protection of passive section should be IP 42, and of active section should be minimum IP 21. The switching device for APFC passive section should be through capacitor duty contactor and for the active compensation system shall be IGBT based with 3 level topology having 12 IGBT in inverter circuit. The active compensation system should filter harmonics from 2nd to 50th individual harmonic order and shall be selectable for the entire range. The active compensation system should have feature to improve PF correction and harmonic filtration having response time < 100 Microsecond. The hybrid panel shall be indoor type floor mounted free standing totally enclosed, extensible, fabricated in compartmentalised designed made of CRCA sheet steel of 2.0mm thick for framework & covers, 3 mm thick for gland plate i/c cleaning & finishing complete with 9 tank process for powder coated of approved shade (RAL 7032-Siemens gray or as approved by Engineer-in-Charge), having front section (switch gear and control accessories) and rear section (capacitor and reactor), front and rear access, having suitable current carrying capacity, extensible TPN Aluminium alloy bus bar of high conductivity, DMC/SMC bus bar supports, bottom base channel of MS Section, fabrication shall be done in transportable section, entire panel shall have common copper earth bar of minimum size of 25mm x 5mm with 2 nos. earth studs, the earth terminals provided on the body of capacitor bank shall also be bonded to the main capacitor panel earth bus with 2 nos. 8 SWG or 6 SWG GI earth wires/ equivalent size of copper conductor cable, forced ventilation for maintaining temperature rise not more than 5°C from ambient, interconnections, connections with 14% detuned reactor and heavy duty 525 V ISI marked Impregnated MPP (Metalized Polypropylene) Capacitor (IS 13340 Part -1 & 2) APFC Panel shall be in compliance with IS :16636 & CPWD Specifications etc. as per below details. (A) Incomers: Suitable capacity MCCB/ACB (Upto 300 KVAR, MCCB and above 300 KVAR, ACB) Microprocessor base with O/C, S/C, E/L release of TPN 50KA breaking capacity (Ics=Icu), ON, OFF, Trip, R, Y, B - LED Indicating Lamp set alongwith required Instruments and accessories with extended rotary handel and door interlocking arrangement. Current rating of the Incomer in ampere shall be APFC Panel rating in KVAR x 1.4 x 1.5 or Nearest higher standards rating. (B) Instruments & Indications: a) For Passive Section: i) 3-Phase current sensing APFC microprocessor relay/controller , advance 12/16 stages (12 stages for over all capacity of panel (active + passive) below 500 KVAR and 16 stages 500 KVAR & above) and having display of Phase wise V, A, PF, Cos-Phi, KW, KVA,					
25.2.2	2.1	300 KVAR	1	Each	1624497.00	1624497.00	

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

DSR E&M 2025/ MR	S No	Description	QTY	UNIT	Rate	Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
29.1	3	Supplying, Installation, Testing & Commissioning of 'Silent Type Diesel Generating set as per CPCB IV + or better norms along with having Prime Power Rating of KVA as below, 415 volts at 1500 RPM, 0.8 lagging power factor at 415 V suitable for 50 Hz, 3 phase system & for 0.85 Load Factor, including testing at factory and site with fuel, load for test and other necessary arrangements Complete as per CPWD specifications, should have QR code which should contain drawing, test report OEM manual,Geo- Tag of manufacturing location, rating plate as per relevant IS Code etc. and consisting of the followings: (A) Diesel Engine: Turbocharged Diesel engine 4 stroke water cooled, multi cylinder, dynamically balanced fly wheel, electric start of suitable BHP at 1500 RPM suitable for above output of alternator at 40 0C, 50% RH & at 1000 Meter MSL , capable of taking 10% over loading for one hour after 12 hours of continuous operation. The engine will be with Electronic governor, Dry type Air filter with service indicator, first filling of engine fuel (after commissioning) lubricating Oil, Coolant and other consumables complete with all the required accessories, the Electronic governor shall be as per ISO 8528.The engine shall comply to the latest CPCB norms (CPCB IV + or better) and Conforming to BS 5514, BS 649, IS 10000, IS 10002, IS 13018 and as per CPWD specifications. (B) Engine mounted Instrument Panel fitted with and having digital dis Plate for following: (i) Start-stop switch with key; (ii) Water temperature indication; (iii) Lubrication oil pressure indication; (iv) Lubrication oil temperature indication; (v) Battery charging indication and Voltage indication; (vi) RPM indication; (vii) Over speed indication; (viii) Low lubricantion Oil trip indication; (ix) Engine Running Hours indication; (x) Fuel Level (C) Alternator: Synchronous alternator rated of appropriate KVA, 415 volts at 1500 RPM, 3 phase 50 Hz, AC supply with 0.8 lagging power factor at 40 0C, 50% RH & at 1000 Meter MSL. The alternator shall be having Screen Protected Drip Proof (SPDP) enclosure IP23, brushless, continuous duty, dynamically balanced rotor, capable of taking 10% over loading for one hour after 12 hours of continuous operation, self cooled,self-excited and self-regulated through AVR conforming to IS13364(Part 2)/IS: 4722/BS 2613 suitable for tropical conditions and with class- H insulation. (D) Base Frame & Foundation: Both the engine and alternator shall be mounted on suitable base frame made of MS channel with necessary reinforcement which shall be installed on suitable cement concrete foundation and vibration isolation arrangement as per recommendations of manufacturer. (E) FUEL TANK: Daily service fuel tank of suitable liters capacity as per CPWD Specifications, fabricated out of 3 mm thick M.S. sheet complete with all standard accessories and fuel piping between fuel tank and diesel engine with MS class 'C' pipes of suitable dia. Complete with valves, level indications & accessories as required as per specifications.					

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

DSR E&M 2025/ MR	S No	Description	QTY	UNIT	Rate	Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
		(I) AMF Panel: Free standing floor mounted IP 42 automatic mains failure control panel including auto by-pass, suitable for KVA as below for silent type DG set complete with relays, timers, set of CTs for metering & protection and energy analyser to indicate currents, phase and line voltages, frequency, power factor, KWH, Kilo Volt Ampere Reactive Hour (KVARH), KVA (Phase & Total), KW & provision for overload, short circuit, restricted earth fault, under frequency, power (aluminium) and control (copper) cabling of suitable size upto 15 meter between AMF panel, LT Panel and DG Set including connection interconnection etc. as required, all complete and inter locking and communication/ Ethernet /RS485/SNMP port open protocol for BMS integration including suitable software, the panel shall be of DG Set OEM make etc. as per approved by Engineering in charge and including the following: 1. Suitable numbers and appropriate capacity 4 pole motorised electrically operated draw out with cradle type 3 position ACB/ MCCB with electronic release for O/C & E/F and shunt trip. 2. Auto/Manual/Test/Off selector switch 3. Protection for under and over voltage phase reversal (2 nos Over voltage relay, 2 Nos. reverse power relay and 2 Nos. under voltage relay). 4. 3 Sets of current transformers 15 P 10 accuracy for protection and 15 VA class-I for metering 5. Energy analyser unit to indicate current, Voltage (LN & L_L), kW, kVA (Phase & Total), Frequency, KWH, PF. 6. LED Indicating lamps for load on mains and load on set 7. Fuse/ MCB for instruments 8. Battery charger, complete with transformer/ rectifier, D.C. voltmeter and ammeter, selector switch for trickle, off and boost and current adjustment. 9. Main supply failure monitor 10. Supply failure timer 11. Restoration timer 12. Control unit with three impulse automatic engine start/stop and failure to start lockout. 13. Impulse counter with locking and reset facility. 14. ON/OFF/Control circuit switch with indicator 15. Audio/Video annunciation for (i) High water temperature (ii) Low lubricating oil pressure (iii) Engine over speed (iv) Engine fails to start (v) Full load/maximum load warning 16. Protection for over/under Frequency, Loss of AC sensing, Over Current, Unbalancing load with suitable number of relays and accessories 17. Maintenance notification based on Engine Run Hour & due date. 18. Load Management through PLC to achieve auto opening and closing of incomer breakers, bus coupler switching of essential panel, interlocking providing signal to AMF Panel for load status and AMF shall give command to DG Set to auto start / auto stop depending upon load status and requirement etc. and necessary hardware and software required to perform the operation shall be provided by the contractor including all control wiring					
29.1.17	3.1	750 KVA	1	Each	6406428.00	6406428.00	
	B	Sub Head - II : Cabling					
M.R.	1	Supplying of one number PVC insulated and PVC sheathed XLPE power aluminium conductor armoured cable of 11 KV (E) grade of following size etc as reqd. A) 3 x 240 sq mm	50	Metre	4864.00	243200.00	
22.1	2	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.					
22.1.2	2.1	Above 120 sq. mm and upto 400 sq. mm	50	Metre	694.00	34700.00	
22.4	3	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11 KV grade of following size in the existing masonry open duct as required.					
22.4.2	3.1	Above 120 sq. mm and upto 400 sq. mm	25	Metre	146.00	3650.00	
23.4	4	Supplying and making indoor cable end termination with heat shrinkable jointing kit complete with all accessories including lugs suitable for following size of 3 core, XLPE aluminium conductor cable of 11 KV grade as required:					
23.4.3	4.1	240 Sq. mm	6	Each	17414.00	104484.00	
23.5	5	Supplying and making outdoor cable end termination with heat shrinkable jointing kit complete with all accessories including lugs suitable for following size of 3 core, XLPE aluminium conductor cable of 11 KV grade as required :					
23.5.3	5.1	240 Sq. mm	4	Each	24255.00	97020.00	
		Total of Sub Head II					

Contractor

G. T. S. S. S.

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Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

DSR E&M 2025/ MR	S No	Description	QTY	UNIT	Rate	Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
	C	Sub Head - III : Earthing					
5.4	1	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 Meter long etc. with charcoal/ coke and salt as required.	12	Set	8351.00	100212.00	
5.6	2	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 Meter long etc. with charcoal/ coke and salt as required.	12	Set	15004.00	180048.00	
M.R.	3	Providing and fixing 50 mm X 6 mm copper strip in 40 mm dia G.I. pipe from earth electrode including connection with brass nut, bolt, spring, washer excavation and re-filling etc. as required.	200	Metre	5750.00		1150000.00
M.R.	4	Providing and fixing 50 mm X 12 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.	200	Metre	2000.00		400000.00
M.R.	5	Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required.	100	Metre	2649.00		264900.00
M.R.	6	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	100	Metre	627.00		62700.00
		OUTDOOR SUB STATION					
		2-POLE STRUCTURE:					
		Supply, erection and commissioning of 2-pole structure for terminating 11 KV O.H. supply from supply company as per specifications and drawing. The 2-pole structure shall comprise of:-					
		a) MS tubular swaged pole 11 mtrs high (410SP 24) (as per latest relevant BS standard) or as per Indian std., in cement concrete foundation 1:3:6 (1 cement : 3 coarse sand : 6 graded aggregate 40mm nominal size) including excavation and refilling etc. as required. The rate shall be inclusive of painting with 2 coats of aluminium paint (on red oxide). The portion of pole under the ground shall be provided with 2 coats of bituminous paint -2 Nos.					
		b) Steel sections, channels angles, flats, clamps, GI nuts, bolts and required hardware etc of different sizes for cross arms, bracings, supports etc. for pole GODO etc. including anticlimbing barbed wires (conforming to BS Standard) having 4 points barbs spaced 75 ±12mm apart. All steel structure shall be given 2 coats of red oxide primer and 2 finishing coats of aluminium paint as required as per drawings and direction of Engineer-in-charge -Lot					
		c) Supply, installation, testing and commissioning of 11 KV class disc/pin/support insulators complete with clamps and fixing hard disc/pin/support insulators complete with clamps and fixing hard wares etc. complete as required as per drawings and direction of Engineer-in-charge -Lot					
		d) Supply, installation, testing and commissioning of 11 KV station class thyrite type lightning arrestors complete with mounting arrangement (on all phases) -1 Set					
		e) Supply, installation, testing and commissioning of drop out -lock out (DOLO) fuse, gang operating device (Air Break Switch) with pad locking arrangement (operating rod to be supported properly), complete with operating handle and locking arrangement -1 Set					
MR	7						

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DSR E&M 2025/ MR	S No	Description	QTY	UNIT	Rate	Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
		f) Supply, installation, testing and commissioning of GI stay set complete with 20mm dia 1.8 M long stay rod with 450 x 450 x 7.5 mm anchor plate with thimbles, stay clamps, 7/4.00 mm dia GI stay wire, turn buckle (20mm x 600mm) strain insulator bow tightner in cement concrete 1:3:6 foundation as excavation and refilling - 1 Sets					
		Earthing of poles with 2 Nos. 20mm dia M.S. rod earthing and connecting the poles with 25 x 6mm GI earth strip. - Lot					
		Earthing of lightning arrestors with 2 Nos. 32 x 6mm GI strip directly connected with GI pipe Earth station (2 Nos.) as per IS-3043 - Lot.					
		Two pole structure as described above.	1	Set	125000.00		125000.00
		METER PANEL					
MR	8	Design, fabrication, assembling, wiring, supply, installation, testing and commissioning of cubicle type 11 kV metering panel fabricated out of 14 SWG CRCA sheet steel, free standing floor readable dust and vermin proof with arrangement for sealing the covers and doors, re-inforcement of suitable size angle iron, channels, T sections of flats wherever necessary. Cable gland plate shall be provided on bottom of metering panel. Panel shall be treated with allanti-corrosion process prior to powder coating.					
		Approval shall be obtained from concerened Electricity Board for the shop drawings before fabrication.					
		The metering panel shall comprise the following					
		Trivector Meter , accuracy class 0.5					
		3 nos 11 KV cast resin CT's of 50/1 A amps CT ratio, 15VA burden and accuracy class 0.5					
		1 no. 3 phase potential transformer as per Electricity Board norms. Ratio 11000V/√3/110/√3 VA Burden 100VA Class 0.5					
		Ratio 11000V/√3/110/√3 VA Burden 100VA Class 0.5					
		One Set of Phase Indicating Lamps.					
		2 Sets of HRC fuses with fuse base (H.T. Fuse - 1A & LT fuse 2-6A).					
		1 Nos. indoor cable end box for suitable for 3C x 95 sq.mm.11 KV(E), aluminium conductor XLPE Al. cable (Incoming & Outgoing cable).					
		Note: The contractor shall get the Trivector meter, CTs' & PT tested by SEB and the charges for liaison for the same will be paid extra.					
		The metering panel shall be complete with all interconnections etc. as above including calibration of instruments as per Electricity Board norms.	1	Set	132000.00		132000.00
		H.T VCB Panel					
		11kV DISTRIBUTOR BOARD					
		Supplying, installing, testing and commissioning of Indoor 1no. Incomer and 01no. Outgoing Vacuum Circuit Breaker Panel Comprising of 11kV, 630Amp, 26.3kA/3-sec, Draw-Out type HT Vacuum Circuit breaker panel confirming to IEC 62271-200, IAC AFLR – 26.3kA for 1sec, LSC2B-PM Class, comprising of 630Amp, continuous rated aluminium busbars and droppers, 01no. Line-Earthing Trucks, 01nos. Rack-In-Rack-Out Handles and mandatory spares including 01no. Trip Coils, 01nos. Closing Coils, 01nos. Spring Charging Motors, 02nos. Space Heaters.					
		The Board shall consist of following panels:					
		INCOMER PANEL - 01nos., Each comprising of					
		11kV, 630Amp, 26.3KA/3-sec, Draw-Out Vacuum Circuit Breaker as per IEC-62271-100. Vacuum Circuit Breaker should have 03nos. encapsulated vacuum bottles of same manufacturer as of circuit breaker. Motorized spring charging mechanism (230VAC) with integral spring charging handle for manual spring charge, associated Shunt Trip/Close Coils (24VDC):					
		Current Transformers: 11kV, 300-150/1-1, Core1: Class 5P10, 5VA, Core2: Class 0.5, 5VA					
		Potential transformers: 11kV/rt3:110V/rt3, 50VA, Class 0.5					

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DSR E&M 2025/ MR	S No	Description	QTY	UNIT	Rate	Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
MR	9	Accessories: Local Remote Switch, Breaker Control Switch (T-N-C), space heater with thermostat, DC & AC control circuit through MCB,					
		Indicating Lamps: for RYB, spring charge, DC Supply healthy, Breaker ON/OFF and TEST/ SERVICE position					
		Metering Instruments: Multifunction Meter with RS485 port for MODBUS communication (Acc.Cl.0.5), Digital Ammeter (Acc.Cl.0.5), Digital Voltmeter (Acc.Cl.0.5)					
		Protection Relays:					
		01no. Flush-Mounted, Numerical based, 03-OverCurrent+01-EarthFault Feeder Protection Relay, providing OverCurrent (LowSet: 10%-250% / HighSet: 20%-2500%), Earth-Fault (LowSet: 10%-200%/HighSet: 50%-1250%), ThreePhase Inrush Detection, CktBrkr Control, TripCkt Supervision, ThreePhase & Residual Current Measurement, Non-Volatile memory for 100-event log, five-fault-record with time-stamp, Local HMI and user-programmable 4DI/6DO for future deployment of interlocking/changeover scheme.					
		Relay should be communicable on MODBUS protocol.					
		Master Trip Relay - DA Aux.					
		Pluggable Relays for contact multiplication, anti-pumping, spring-charging indication etc. where applicable.					
		Additional facilities like Arrangement for connecting atleast one run of outgoing cables. Panel Illumination Lamp, Space Heater + Thermostat, Electrical or Mechanical Anti pumping Protection, Test Terminal Block, Seperate PowerPack with associated BatteryBackup: 24VDC of suitable rating for each VCB, Panel structure fabrication shall be made of sheet steel with anti-corrosive protection of zinc and aluminum coating. Safety Shutters, Continuous rated closing and tripping coil. Panel design shall be one-second Fully Internal Arc Type tested for 26.3kA by the works manufacturing the item (principle/licensor/half-panel type-test reports will not be accepted). Vacuum Bottles of same make as panel manufacturer. Complete Control circuit shall operate on 24VDC, except Spring-Charging-Motor and SpaceHeater which shall operate on 230VAC.					
		OUTGOING PANEL - 01 nos. EACH COMPRISING OF					
		Same description as INCOMER PANEL above, except following changes:					
		Potential Transformer, Voltmeter, Under/OverVoltage Relay, R-Y-B Phase Indications are not required in Outgoing Panels					
		PANEL COMPLETE AS ABOVE	1	Nos	1250000		1250000
		PANELS AND FLOOR BOARDS					
		PANELS WITH REAR ACCESS					
		Designing, fabricating, transporting, unloading, storing, fixing in position, testing and commissioning the following sheet steel cubicle type panels fabricated from 1.6mm thick CRCA sheet, dust and vermin proof, indoor type TPN Panels with hinged lockable doors fabricated from 2mm thick CRCA sheet, suitable for 415V, 3 phase 4 wire 50Hz AC supply with rear access for cable alley and with segregated bus-bar chamber with tinned copper/aluminium bus bar as specified and including supplying and fixing following switchgears, meters and accessories, inter-connections, bonding to earth, powder coated painting and marking as specified. Switch boards complete as per schematic diagram:					
		Type of construction: Form 3					
		IP classification: 42					
		All MCCBs in Main LT Panel shall have minimum 50 kA breaking capacity					
		The LT PANEL shall be electrically inter-locked as shown in Schematic diagram and as detailed in the Specifications					
		Colour: Siemens Gray Powder Coated, as per approved sample.					
		ALL PANELS MUST BE EQUIPPED WITH GAS FLOODING SYSTEM					

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						All Figures in Rs.	All Figures in Rs.
MR	10	MAIN LT PANEL					
		(NOTE: Interlocking of the incoming breakers and coupler to be coordinated with PLC in DG Control Panel with suitable control wiring and auxiliary contacts left accordingly.)					
		Panel must have suitable entry for bus duct and rising main wherever required					
		<u>INCOMER (Transformer)</u>					
		1 nos 1600A FP electrically operated draw-out type ACB with microprocessor-based relay for O/L, S/C and E/F protection with time delay facility and fault type indication, with Reverse Power Relay and three phase indicating lamps, 1no 96mm x 96mm multi parameter digital meter with LCD display for Voltage, Current, Frequency, Power, Energy, Power factor, RS 485 port for connection to BMS system and set of suitably sized CTs including protection with 2A HRC fuses and suitable number of auxiliary contacts for electrical interlocking as described.					
		<u>INCOMERS (DG SET)</u>					
		1 nos 1250A FP electrically operated draw-out type ACB with microprocessor-based relay for O/L, S/C and E/F protection with time delay facility and fault type indication, with Reverse Power Relay and three phase indicating lamps, 1no 96mm x 96mm multi parameter digital meter with LCD display for Voltage, Current, Frequency, Power, Energy, Power factor, RS 485 port for connection to BMS system and set of suitably sized CTs including protection with 2A HRC fuses and suitable number of auxiliary contacts for electrical interlocking as described.					
		<u>OUTGOINGS:</u>					
		1nos 800A FP electrically operated draw-out type ACB with microprocessor-based relay for O/L, S/C and E/F protection with time delay facility and fault type indication, with Reverse Power Relay and three phase indicating lamps, 1no 96mm x 96mm multi parameter digital meter with LCD display for Voltage, Current, Frequency, Power, Energy, Power factor, RS 485 port for connection to BMS system and set of suitably sized CTs including protection with 2A HRC fuses and suitable number of auxiliary contacts for electrical interlocking as described.					
		1 nos 630 A TPN MCCB with thermal-magnetic release setting of 80%-100%, rotary operating handle and ON indication with 1no 96mm X 96mm digital 3-phase current Ammeter with suitably rated CTs and protected with set of 2A SP HRC fuses.					
		1 nos 400 A TPN MCCB with thermal-magnetic release setting of 80%-100%, rotary operating handle and ON indication with 1no 96mm X 96mm digital 3-phase current Ammeter with suitably rated CTs and protected with set of 2A SP HRC fuses.					
		2 nos 250 A TPN MCCB with thermal-magnetic release setting of 80%-100%, rotary operating handle and ON indication with 1no 96mm X 96mm digital 3-phase current Ammeter with suitably rated CTs and protected with set of 2A SP HRC fuses.					
		4 nos 100A TPN MCCB with thermal-magnetic release setting of 80%-100%, rotary operating handle and ON indication with 1no 96mm X 96mm digital 3-phase current Ammeter with suitably rated CTs and protected with set of 2A SP HRC fuses.					
		10 nos 63A TPN MCB with rotary operating handle and ON indication with 1no 96mm X 96mm digital 3-phase current Ammeter with suitably rated CTs and protected with set of 2A SP HRC fuses.					
		<u>BUS COUPLER:</u>					
		1no 1250A FP electrically operated draw-out type ACB with ON/ OFF indication and suitable number of auxiliary contacts for electrical interlocking as described above					
		<u>BUSBAR:</u>					
		Equally sized three phase and neutral aluminium conductors busbar suitably sized to carry 2000A current and suitably insulated with colour coded Heat Shrink Sleeve.					
		Panel complete as above	1	Nos	1875000		1875000

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						All Figures in Rs.	All Figures in Rs.
MR	11	FEEDER PILLAR:					
		Supplying, erecting, testing and commissioning outdoor duty floor mounted weather proof IP54 feeder pillar fabricated as detailed in description given in E.1 above but with double door (lockable outer door), sloping roof, water run-off gutter on three sides as per approved drawing, entire unit mounted on 50mm x 50mm x 5mm angle iron with minimum 300mm long "legs".					
		Incomer:					
		1nos 40A TPN MCB.					
		1 no 96mm x 96mm multi parameter digital meter with LCD display for voltage & current with suitably rated CTs and MCB protection.					
		1 set of three phase indicating lamps with suitable protection.					
		Busbar: Equally sized three phase and neutral copper conductors busbar suitably sized to carry 100A current and suitably insulated with colour coded Heat Shrink Sleeve.					
		Outgoings:					
		1 nos. 25A TP MCB					
		3 nos. 40A DP ELCB.					
		18nos.6/10/16A SP MCB					
		2 nos. 16A water proof outlet.					
		Feeder Pillar complete as above	1	Nos	90000.00		90000.00
		Safety equipments					
		Supplying & Erection of following safety equipments at suitable places as required.					
		MR 12					
		a CO2 (Carbon Dioxide) type fire extinguisher Confirming to IS:15683 with cylinder fully charged of 4.5 Kg. capacity (ISI marked.)	2	Each	6400.00		12800.00
		b ABC Powder type Fire Extinguisher (Stored Pressure type) Capacity 06 Kg duly ISI marked conforming to IS: 15683:2006, with IS 14609 (ISI marked.)	2	Each	3200.00		6400.00
		c A set of 4 Nos. Fire Buckets with 50 mm x 50 mm x 6 mm thick angle iron suitable stand etc. as required (Confirming to IS-25461974).	2	Each	4500.00		9000.00
		d Industrial First Aid small kit having Metal Box wall mounted with acrylic door as approved by St. JOHN AMBULANCE BRIGADE or Indian Red Cross Society as per IS code 2217 '1963	2	Each	3500.00		7000.00
		e Electric shock treatment chart of size 24" X 18" as per BIS 1986 duly framed in glass frame work i/c mounting arrangement.	2	Each	4500.00		9000.00
		MR f MAT 3mm					
		Supplying & Fixing of Fire retardant / Extinguishing Elect. Insulated mat of 3.0 mm thick + 10% according to IS: 15652, 2006 meeting requirements of IS: 3043, IS: 5216 (Part 1,2& 3), IS: 8437 and IEC 479 Pub-1, Tested for breakdown strength, tensile/ elongation, ageing, properties, Insulations resistance, effects of acid, alkaline, diesel & transformer oil, leakage current test, having min. width of 1000 mm + 20 mm. All allied material such as pu-resin, chemi bound (Hardener), spl. PVC adhesive, liquid primer and sealing material and similar tape of matching colour and matching design tapes should be used to maintain any aesthetic look of the insulation over the joints and corner as per in servicerecommendation of Annexure "A" Clause C of IS: 15652 and suitable for Class-C upto 33 KV etc complete as required	10	sq m	1600.00		16000.00

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DSR E&M 2025/ MR	S No	Description	QTY	UNIT	Rate	Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
MR	g	MAT 2mm					
		Supplying & Fixing of Fire retardant / Extinguishing Elect. Insulated mat of 2.0 mm thick + 10% according to IS: 15652, 2006 meeting requirements of IS: 3043, IS: 5216 (Part 1,2& 3), IS: 8437 and IEC 479 Pub-1, Tested for breakdown strength, tensile/ elongation, ageing, properties, Insulations resistance, effects of acid, alkaline, diesel & transformer oil, leakage current test, having min. width of 1000 mm + 20 mm. All allied material such as pu-resin, chemi bound (Hardener), spl. PVC adhesive, liquid primer and sealing material and similar tape of matching colour and matching design tapes should be used to maintain any aesthetic look of the insulation over the joints and corner as per in service recommendation of Annexure "A" Clause C of IS: 15652 and suitable for Class-A upto 3.3 KV etc complete as required	10	sq m	1200.00		12000.00
10.1	13	Supplying and fixing cable route marker with 10 cm X 10 cm X 5 mm thick G.I. plate with inscription there on, bolted /welded to 35 mm X 35 mm X 6 mm angle iron, 60 cm long and fixing the same in ground as required.	100	Each	598.00	59800.00	
15.16	3	Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc.direct in ground (75 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc., complete as required.					
15.16.5	a	200 mm dia (OD-200 mm & ID-175 mm nominal)	100	Metre	733.00	73300.00	
	F	Bus DUCTS					
Based on 31.13		Supplying, installation by suspension on ceiling, testing and commissioning of following capacity Sandwich Type Rising Mains/Bus Duct for use on 3 phase 4 wire 415 volts, 50Hz A.C. supply with metal clad enclosure having IP-54 rating after fixing the tap off boxes and all accessories, made of 1.6mm thick steel sheet duly powder coated in convenient sections complete with 4 Nos aluminium bus bars having current density of 130 A/ sq cm at nominal current rating, necessary joints, elbow joints & expansion joints and bends, fire barrier at each floor, provision of tapping at every metre, adopter box and copper flexible for joints, continuous earthing with 2 Nos aluminium strip of suitable size (one on each side) including, G.I. clamping brackets, suspenders, angle iron bracket, steel fasteners, connecting to earthing system etc. as required					
3.13.6		1250 A, Isc= 50kA for 1 sec	40	Metre	27733.00	1109320.00	
3.13.7		1600 A, Isc= 50kA for 1 sec	10	Metre	32974.00	329740.00	
		TOTAL				13,388,937.00	5,421,800.00

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SCHEDULE OF QUANTITIES: LIFT

S No	DSR-E&M 2025/MR	Description of Item	Unit	Qty	Rate	Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
1	Based on 21.1/MR	Supplying, Installation, Testing & Commissioning of following capacity passenger Machine room less (MRL) lift with regenerative drive as per CPWD General Specification for Electrical Works (Part-III Lift & Escalator) 2003, BIS Codes, NBC 2016 as amended upto date having provision for barrier free access as per Harmonised Guidelines & Standards for Universal Accessibility in India - 2021 of MoHUA, serving different floors in the lift shaft as per detailed specifications enclosed and as under including all other equipment and accessories complete as required:- (i) Speed-1 MPS (ii) Floors-8 (2B+G+5) (iii) Travel -31 Meters (approx.) (iv) Stops & opening- 8 stops and 8 openings (v) Controller: A.C. variable voltage & variable frequency (vi) Automatic rescue device (ARD) complete with dry maintenance free batteries as required. (vii) Operation: Microprocessor based single automatic push button/simplex selective collective/duplex collective selective with/without attendant (viii) Power-415 Volts+10%, 3 phase, 50 Hz, 4 wires system (ix) Car Enclosure: Stainless steel scratch proof (Moon Rock/Honeycomb/ Hairline Finish) on all sides and stainless steel decorative ceiling with fans (indirect throw) and LED fitting. (x) The car flooring should be smooth and antiskid as approved by engineer-in-charge. (xi) Type of doors: (a) Car: Power operated, centre opening horizontal sliding stainless steel scratch Moon Rock/ Honeycomb/ Hairline Finish). (b) Landing doors: stainless steel scratch proof. (xii) A hand rail not less than 600mm long at 900mm above floor level to be fixed adjacent to control panel in the lift car. (xiii) Voice announcement system in the car to announce the position of the elevator in the hoist way as the car passes or stops at floor served by the elevator. (xiv) Closed loop Control System, protection against power fluctuation, self diagnostic control, Landing doors 2 hours Fire rated, Overload detection and protection, Overspeed Governor, Dot Matrix LED D & P Indicators In Car & Landings, BMS Compatibility, tamper proof infrared curtain covering almost the entire height of the lift car door, Alarm horn, Anti Nuisance Operation, CCTV camera system with 4 MP IP camera, suitable NVR and HDD for 30 days storage backup, Firemen switch, 2/3 way intercom, Emergency Stop Switch with battery backup for fan and light fitting for 1 hour, pit ladder. (xv) The lift doors shall have a vision panel to enable persons with hearing impairment to signal for help or assistance in the event of an emergency.					
	21.1.2	10 passenger (680kg)	Each	3	3500000.00		10500000.00
2	MR	Lift DB Incomer: 1nos 63A, 300mA 4P ELCB. Outgoing: 1nos 32A TPN MCBs 2nos 16A DP MCB Board complete as above	Each	2	61065.00		122130.00
		TOTAL				0.00	10,622,130.00

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SCHEDULE OF QUANTITIES: BUILDING MANAGEMENT SYSTEM

DSR E&M 2025/ MR	S No	DESCRIPTION OF ITEM	UNIT	QTY	RATE	Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
42.1	1	CENTRAL CONTROL SERVER Supplying Installation Testing Commissioning of Central Control Server System comprising of Intel® Xeon® CPU E5-2640 x64 (or better) compatible with dual and quad core processors, Windows 11 (Professional, Enterprise, Ultimate, 64 bit), Windows Server 2013 R2 (Standard, Enterprise, 64 bit) 16 GB or more, Video card and monitor capable of displaying at 1024 x 768 resolution or better, Latest Microsoft Licence Version Operating System Loaded with MS OFFICE 2019 Professional, Word, EXCEL, Power Point, Outlook Express, Microsoft Team official version lifetime licences suitable for running BMS software complete etc. as required.	Each	1	186,434.00	186434.00	
42.2	2	PC System Supplying Installation Testing Commissioning of Client PC System comprising of PC Hardware with minimum 11th Gen Intel® i7 processor CPU E5-2640 x64 (or better), compatible with dual and quad core processors minimum 3.1 Ghz and 8GB or higher RAM, Hard Drive Space of 256 GB SSD or better, Video card and monitor capable of 1920 x 1080 pixel resolution or better with Ethernet adapter (10/100/1000 Mbps with RJ-45 connector) with 2 GB or higher Graphics card suitable for BMS System complete etc. as required.	Each	1	90,698.00	90698.00	
42.3	3	LaserJet printer Supplying Installation Testing Commissioning of LaserJet printer having printing resolution 1200 x 1200 dpi, (dot/inch) or better, 21 to 30 ppm printing speed (LaserJet) complete etc. as required	Each	1	22,674.00	22674.00	
42.4	4	Supplying, Installation, Testing and Commissioning of following size LED display (LED monitor) industrial grade with 3840x2160 resolution or better, USB playback, bluetooth and miracast connectivity, 4X HDMI 2.0, DP 1.2, HDR 10/10+, brightness: 500-nits					
42.4.3		55 inch or larger	Each	1	82,057.00	82057.00	
42.5	5	Software for Building Management System : Supplying Installation Testing Commissioning of Necessary Software (UL listed) Packages containing Building Management with Capability of Collection, Storage, Processing and Controlling all the Data. Software shall support Open Standard Protocols like XML, BACnet, Modbus, Lon works etc. and without the use of Proprietary Protocols, with Enterprise Level Database Like MS SQL complete Lifetime Licenced & capable to collect, store & access all points from Fire Alarm Systems, IT Systems, Automation Systems, HVAC System, Lift, Energy management, Water Management System, etc. to create & monitor historical & event data, event management data, alarm management data & reporting data, Email Alerts for Critical alarms for all the systems. The scope includes additional software required by BMS software (to enable a standard Web browser) to be resident on the DDC/client machine (manufacture-specific browsers shall not be acceptable). User log-on identification and password shall be required & a minimum three-layered security system (User interface Level, Application Level and Data Base Level) to be deployed for safety. The supplied computer software shall employ object oriented technology (OOT) for representation of all data and control devices within the system. This data shall reside on a server for all database access (Systems requiring proprietary database and user interface programs shall not be acceptable). All components and controllers supplied under this contract shall be true "peer-to-peer" communicating devices (Components or controllers requiring "polling" by a Master / Global / Host to pass data shall NOT be acceptable). Physical connection of BACnet/MOD BUS devices shall be via Ethernet at all levels. The License must be provided by default. The BMS software shall be complete in all respect to cater the following different numbers of points managed in the installation.					
42.5.1		For Upto 500 point included	Each	1	97,377.00	97377.00	

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SCHEDULE OF QUANTITIES: BUILDING MANAGEMENT SYSTEM

DSR E&M 2025/ MR	S No	DESCRIPTION OF ITEM	UNIT	QTY	RATE	Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
42.7	6	DDC CONTROLLERS Supplying Installation Testing Commissioning of IP Based DDC controller capable of fully "stand- alone" operation i.e. In the event of loss of communication with other DDC's or Control Station, they shall be able to function on their own. The controllers shall consist of dual/quad core 32 bit microprocessors with EPROM based operating system on BACNET. The network Topology shall not allow single point failure. Each DDC on field level shall have embedded TCP/IP (10/100Mbps) connectivity so that it can be hooked into the Local Area Network (LAN) provided by the client or on dedicated network . Each DDC can be accessed from the Graphical User Interface (GUI) or from a standard Web browser (WBI) by connecting the server alongwith inbuilt web browser. All controllers shall accept 230V+/- 10%, 50Hz Uninterrupted power supply provided by end user. Controller shall support DHCP addressing over Local Area Network (LAN) so that the static IP requirements get reduced however a single static IP shall be provided for system so that it can be hosted on to internet in consultation with end user. The microprocessor based DDC's shall be provided with power supply, analogue to Digital and Digital to analogue converters with memory and capacity to accommodate input/output (I/O) hardware points (with or without an expansion board). Each DDC should have own board and shall accept 0-10 V /4-20mA input signal having Minimum 20% sparecapacity considered for expansion. Each DDC on fieldlevel should have minimum 128MB RAM & 64MBFlash memory. Following type of All controllers should be mandatorily BTL approved with B-BC profile complete etc. as required.					
42.7.1	a	DDC Controller-Type-I (support upto 32 points)	Each	12	46,861.00	562332.00	
42.11	7	Field Devices -Supplying Installation Testing Commissioning of following Field Devices including connection etc. as required					
42.11.1	a	Water Differential Pressure (DP) Switch for Pump Status.	Each	6	9,690.00	58140.00	
42.11.2	b	High/Low Level Switch for Tank Level Monitoring.	Each	4	7,904.00	31616.00	
42.11.3	c	Air DP Switch for Fan Run Status.	Each	4	2,928.00	11712.00	
42.11.5	d	Outside Temp & Humidity Sensor with radiation shield. Measuring Range: Temp:- -15 to 50 0C & RH 0-100%, Accuracy: +/- 1 0C +/- 3%	Each	1	9,322.00	9322.00	
42.11.9	e	Current Sensing Relay	Each	10	3,174.00	31740.00	
42.11.10	f	Wall Mount Temp. Sensor	Each	4	6,550.00	26200.00	
42.11.1	g	Wall/Ceiling Mount CO Sensor	Each	4	8,314.00	33256.00	
42.11.14	h	Water level sensor	Each	10	6,621.00	66210.00	
42.11.16	i	Water flow switch	Each	4	3,779.00	15116.00	
	8	Integration of the below mentioned Equipments: Necessary data exchange hardware/ software points units required to integrate the below third party systems and to convert to open protocol MQTT, MODBUS vendor to accommodate the software address required for integration. Any additional hardware required to complete the integration for both read-write provisions shall be in the scope of below equipment provider					
MR	a	Variable Air Volume	Lot	1	555,429.00		555,429.00
MR	b	Energy Meters	Lot	1	108,923.00		108,923.00
MR	c	UPS	Lot	1	108,923.00		108,923.00
MR	d	Fire Alarm System Integration	Lot	1	79,103.00		79,103.00

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Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

SCHEDULE OF QUANTITIES: BUILDING MANAGEMENT SYSTEM							
DSR E&M 2025/ MR	S No	DESCRIPTION OF ITEM	UNIT	QTY	RATE	Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
MR	a	Supply, installation, testing and commissioning of Wall Mount Indoor Enviroment Monitoring Sensor ; BMS/IoT compatible. Measurement Parameters: - Temperature: -40 to 80 °C, Accuracy ±0.5 °C, Resolution 0.01 °C - Relative Humidity: 0–100% RH, Accuracy ±3% RH, Response <8 sec - CO ₂ : NDIR, 0–2000 ppm, ± (50ppm + 5% of reading) Electrical & Mechanical: 9–24 V AC/DC, ≤340 mA @ 24 V AC, Reverse/Overvoltage protection, ABS plastic enclosure, IP20, Wall mount Communication Interfaces: Modbus RS-485 / Modbus TCP (Wi-Fi) Compliance: UL or CE compliant	Each	6	18,000.00		108,000.00
MR	b	Supply, installation, testing and commissioning of Wall Mount Indoor Air quality sensor ; BMS/IoT compatible. Measurement Parameters: - Temperature: -40 to 80 °C, Accuracy ±0.5 °C - Relative Humidity: 0–100% RH, Accuracy ±3% RH - Carbon Dioxide: NDIR, 0–2000 ppm - Carbon Monoxide: 0-500 ppm - Total Volatile Organic Compound: 0 - 99999 ppb - Nitrogen Dioxide: 1 - 500 Index - Sulphur Dioxide: 0 - 20 ppm - Ozone: 0 - 10 ppm - Formaldehyde: 0 - 3 ppm - Particulate Matter 1.0: 0.3 to 10µm - Particulate Matter 2.5: 0.3 to 10µm - Particulate Matter 10: 0.3 to 10µm Electrical & Mechanical: 9–24 V AC/DC, ≤340 mA @ 24 V AC, Reverse/Overvoltage protection, ABS plastic enclosure, IP20, Wall mount Communication Interfaces: Modbus RS-485 / Modbus TCP (Wi-Fi) Compliance: UL or CE compliant	Each	6	85,000.00		510,000.00
		TOTAL				1324884.00	1,470,378.00

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

SCHEDULE OF QUANTITIES: OCCUPANCY SENSORS AND CURTAIN REMOTE CONTROLS							
S No	DSR 2025/MR	Description	Unit	QTY	Rate	Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
1	7.1	Description Supplying, Installation, Testing and commissioning of Passive Infrared (PIR) technology based occupancy sensor having high performance, non regulating programmable type, suitable for connected load upto 10Amp , for mounting height up to 3 meter and for 5 m diameter coverage area along with necessary fixing arrangements i/c programming at site etc. complete as required.	Each	100	4,896.00	489,600.00	
2	7.2	Supplying, Installation, Testing and commissioning of Passive Infrared(PIR) technology based occupancy sensor with day light dimming(lightning level shall be regulated as per availability of natural day light in an area along with occupancy detection.) having high performance, regulating programmable suitable for connected load upto 10Amp , for mounting height up to 3 mtr and for 5 m diameter coverage area along with necessary fixing arrangements i/c programming at site etc. complete as required.	Each	100	9,670.00	967,000.00	
3	7.4	Supplying, Installation, Testing and commissioning of Astronomical time switch of following configuration to be mounted in feeder pillars / Lighting DBs for automatic switching On & OFF of street lights at sun set & sun rise or twilight(Auto ON, Auto OFF, Auto modes) with manual override facility with 12/24 hour display format with suitable battery and indication for relay status i/c programming at site complete as required.					
	7.4.3	3 output(1output per phase) and suitable for three phase supply	Each	4	11,161.00	44,644.00	
TOTAL						1,501,244.00	0.00

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Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

SCHEDULE OF QUANTITIES: SEWAGE TREATMENT PLANT (STP)							
S NO	DSR/ MR	DESCRIPTION	Unit	Qty	Rate	Amount DSR	Amount NDSR
						All Figures in Rs.	All Figures in Rs.
1	MR	Design, Supplying, Installing, Testing & Commissioning of Sewage Treatment Plant capacity 20 KLD. The plant proposed shall be 20 KLD with a main pump room. The plant is proposed to be installed in the basement accessible from the pump room itself for future maintenance. No opening shall be provided on main slab above for this purpose, for the following :					
		Nature of effluent - Domestic Sewage from Toilet use and kitchen waste.					
		Daily average out flow - 20 Cum / Day					
		pH - 7.5 - 8.5					
		BOD5 - upto 250-350 Mg/L					
		S. Solids - 250 - 400 Mg/L					
		COD - upto 450-600 Mg/L					
		Oil & Grease - 50 Mg / L					
		Effluent discharge standard after treatment					
		pH - 6.0 - 8.5					
		BOD5 - Less than 10 Mg/L					
		S. Solids - Less than 10 Mg/L					
		COD - Less than 50 Mg/L					
		Oil & Grease - Less than 5 Mg/L					
		Turbidity -Less than 2-5 NTU					
		Phosphate- Less than 2 Mg/L					
		Total Nitrogen- Less than 10 Mg/L					
		Sewage treatment plant shall include the following items:					
		Screen Chamber					
		Sewage equalization tank/sump					
		MBBR tank					
		Settling tank					
		Disinfection Chamber					
		Treated Water tank					
		Sludge Holding Tank					
		Filtration through MGF & ACF					
		Air Blowers, Pumps & equipment					
		Piping, valves etc					
		Electrical Panel & Cabling					
		Common plant room adjacent to STP.					
		Ultra Filtration (U.F) Systems					
		Softener as optional					
		Soft water tank as optional					
		All piping, valves & level indicator/controller etc, within plant room.					
1.1	MR	Supply, installation, testing & commissioning of 1 Nos Stainless Steel Perforated Screen with suitable lifting arrangement (size 600 mm wide x 600 mm high approx)	Set	1			
1.2	MR	Raw Sewage Lifting pump Supply, installation, testing & commissioning of non clogging type pumps, having CI casing & CI impeller complete with all accessories, motor of required capacity. Delivery header with isolation valve, pressure gauge on delivery line with isolation cock level controller with wiring to control the level of sump automatically. Pump shall have following duty.					
1.2.1	MR	Submersible Sump Pumps (2 Nos. - 1 working & one standby) :Raw Sewage Lifting pump (Solid handling cap. 30 mm) Flow rate (each) = 4m ³ / hr Head = 6-7 Mtr	Set	1			
1.3	MR	Sewage Lifting Pump					
1.3.1		Supply, installation, testing & commissioning of non clogging type pumps, having CI casing & CI impeller complete with all accessories, motor of required capacity. Delivery header with isolation valve, pressure gauge on delivery line with isolation cock level controller with wiring to control the level of sump automatically. Pump shall have following duty.					

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S NO	DSR/ MR	DESCRIPTION	Unit	Qty	Rate	Amount DSR	Amount NDSR
						All Figures in Rs.	All Figures in Rs.
1.3.2	MR	Submersible Sump Pumps (2 Nos. - 1 working & one standby) :Sewage Lifting Pump (Solid handling cap. 30 mm) Flow rate (each) = 4m3 / hr Head = 6-7 Mtr	Set	1			
1.4		Drainade Sump Pump For Plant Room.					
1.4.1	MR	Supply, installation, testing & commissioning of non clogging type pumps, having SS casing & CI impeller complete with all accessories, motor of required capacity. Delivery header with isolation valve, pressure gauge on delivery line with isolation cock level controller with wiring to control the level of sump automatically. Pump shall have following duty.					
1.4.2	MR	Plant room sump pump 2 Nos (1 working + 1 standby) Flow rate of each = 10 cum/hr Head = 14Mts (Solid handling size for this pump shall be 7 mm).	Set	1			
1.5		Sludge Transfer surface mounted Pumps					
1.5.1	MR	Supply, installation, testing & commissioning of non clogging type pumps, having CI casing & CI impeller complete with all accessories, motor of required capacity. Delivery header with isolation valve, pressure gauge on delivery line with isolation cock level controller with wiring to control the level of sump automatically. Pump shall have following duty.					
1.5.2	MR	Sludge Transfer surface mounted Pumps (2 Nos. - 1 working & one standby) :- (Solid handling cap. 7 mm) Flow rate (each) = 2 m3 / hr Head = 10 Mtr	Set	1			
1.6		Air diffusion system shall include the following:					
1.6.1	MR	Twin type rotary air blowers One working & one standby) capable of delivering 80 cum/hr (each) of free air at 0.4 kg/cm2 driven through "V" belt or directly coupled through flexible coupling to a TEFCmotor of suitable HP Suitable for 415 ± 10% volts, 3 phase, 50 cycles a/c supply(1W+1S)	Set	1			
1.7	MR	Air piping shall comprise of pipes droppers/ laterals with M.S "B Class" (epoxy coated) Header complete with all fittings such as tees, crosses, plugs, sockets, elbows, reducers, supports & clamps, puddle flanges etc	Lot	1	Included in System Piping		
1.8	MR	Non clog type air dispersion system capable of handling 3-5 cfm of air with oxygen transfer efficiency of 3-4% per/meter water depth. Air dispersion grid shall be assembled in modular form so that they can be replaced / repaired					
1.9		Fine bubble diffusers					
a)	MR	For equalization tank -1 Job.					
b)		For sludge holding tank - 1 Job.					
c)		MBBR reactor tank- 1 Job.	Lot	1			
Note :		Air dispersion system shall be provided for Equalisation Tank, Sludge holding Tank and MBBR reactor Tank.					
1.10	MR	Providing and fixing all piping (as described below) and isolation control valves for making the system complete. PVC : Submerged air piping MS Epoxy : Air piping PVC piping : Pumped effluent & tank overflow pipe line	Job	1			
1.11	MR	Bio deck MBBR Media Supply, installation, testing and commissioning of PVC Bio deck MBBR media to be installed in MBBR Tank (1No.) and PVC tube deck settling media to be installed in Secondary Settling Tank alongwith suitable sludge removal arrangement either by pumps or air lifting pumps	Job	1			
1.12	MR	Tube Settler Media: Instalation Testing and commissioning providing PVC tube deck media to be instaled in seconday settling tank along with sutable sludge removal arrangment. PVC Tube Media	Lot	1			

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S NO	DSR/ MR	DESCRIPTION	Unit	Qty	Rate	Amount DSR	Amount NDSR
						All Figures in Rs.	All Figures in Rs.
1.13	MR	Supply, installation, testing & commissioning of Chlorine Dosing pumping systems Capacity : 0-6 LPH Tank : 100 Ltr HDPE	Job	1			
1.14	MR	Supplying, installing, testing & commissioning of centrifugal filter feed water pumps SS Body, SS Impeller with mechanical seal along with motor. Pressure gauge with isolation cock, NRV, Isolation valve on delivery line. Isolation valve, stainer at suction. The pump shall be suitable for 415 ± 10% volts, 3 phase, 50 cycles a/c supply Capacity : 3 M3/hr. Head : 25 M No. of Pumps (1 working + 1 standby)	Set	1			
Note:		Operation of pump shall be based on level controller proposed to be installed in tank as per site location. The contractor to ascertain the Head required for pumps as per site conditions and provide accordingly.					
1.15	MR	Supplying, installing, testing and commissioning of FRP vessel filter with MPV and associated valves and accessories. Filter shall be suitable for minimum working pressure of 2.5 kg / cm2 and shall include media, standard fittings like pressure. Multigrade pressure sand filter media Flow rate : 3 cum/hr Filtration velocity : 15 cum/hr/sqm Filter Diameter : 600 mm. Operating Pressure: 3.5 Kg/Sqm	Set	1			
1.15.1							
1.15.2	MR	Activated Carbon Filter Flow Rate : 5 cum/hr Filtration velocity : 15 cum/hr/sqm Filter Diameter : 600 mm	Set	1			
1.16	MR	DIGESTED SLUDGE DISPOSAL PUMP: Providing and fixing horizontal, centrifugal sludge disposal pump for the disposal of sludge to tanker or to sludge dry beds. The pumps shall have CI casing, bronze impeller & SS shaft & sleeve with mechanical rotary shaft seal connected by a flexible tier type coupling to TEFC induction motor mounted on a common channel base-plate with coupling guard, 150 mm dia pressure gauge with GM isolation cock, suitable vibration eliminator pads of approved design. Motor to be suitable for including all necessary piping to feed filter press/ outlet upto ground level for feeding vehicle, valves and other accessories and concrete foundation complete as required. Capacity 5m ³ /hr @ 2 m head (1W+0S)	Set	1			
1.17	MR	Filter Press Supply, installation, testing and commissioning of Filter Press of plate size 12"x 12" x 11 plate with screw feed pumps for required capacity (1Working) with interconnecting piping and poly dosing system all complete.	Set	1			
1.18	MR	Magnetic Flow Meter at treated water outlet.	No	1			
1.19	MR	Electrical cable and cable trays Supply installation testing commissioning of electrical cable, cable trays and cable trenches, complete with lugs, cable glands, conducting pipes and all other accessories, cabling shall be down from all the equipment to the master control panel complete in all respect. GI Earthing strip from all the equipment to the master control panel is also included.	set	1			
		Instrumentation / pressure gauge/ Level switch SITC of the 2 m ³ /hr Ultrafiltration (UF) System: System shall be designed, manufactured, tested, supplied, installed, and commissioned to produce 2 m ³ /hr of treated water. The system shall include UF membrane modules, pumps, piping, valves, instrumentation, control panel, skid, accessories, and all necessary interconnections for complete operation. Raw Water Tank → Feed Pump → UF System → Permeate Tank, Backwash Line: Permeate Tank → Backwash Pump → UF Membrane, Chemical Cleaning: CIP Tank → CIP Pump → UF Membrane Plant Capacity: 2 m ³ /hr, Type of Process: Pressure Driven Ultrafiltration, Membrane Material: PVDF Hollow Fiber, Membrane Pore Size: 0.01 µm, Filtration Mode: Outside-In, Operating Pressure: 1-3 bar, Design Pressure: 4 bar, Recovery: ≥ 90%, Operating Temperature: 5-40°C, Feed Water Source: Surface Water / Borewell / Municipal Water, Power Supply: 415 V AC, 3 Phase, 50 Hz UF Unit: 2 m ³ /hr. UF Skid: MS	set	1			
			set	1			
			No	1			

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S NO	DSR/ MR	DESCRIPTION	Unit	Qty	Rate	Amount DSR	Amount NDSR
						All Figures in Rs.	All Figures in Rs.
1.20	MR	UF Feed Pump: 4 m ³ /hr. @ 25 m MOC –CI.	No	2			
		UF Backwash Pump: 5 m ³ /hr. @ 25 m, MOC-CI	No	1			
		UF Membrane: 8" x 72"	No	1			
		Dosing System0 – 6 LPH	No	1			
		Air Blower: 10 cmh @ 0.3 kg/cm ²	No	1			
		Micro Screen Filter	No	1			
		Incoming					
		100 amps TPN MCCB with the following accessories:					
		a. 0-500 volts 96 x 96 mm square electronic voltmeter with selector switch shall be protected by 2 amps TP MCB.					
		1 Set					
		b. 0-100 amps 96 x 96 mm square electronic ammeter with selector switch and 100./5 amps 10 VA CL:1 CTs.	1				
		Set					
		c. Phase indicating lamps shall be protected by 2 amp SP MCB 3 Sets					
		Bus Bar					
		300 amps TPN (15 KA) copper bus bar with heat shrinkable insulation sleeves.					
Notes :		a. Required Nos of required capacity TPN MCB for direct on line starter/star delta starters and out going feeders to all the pumps/blowers etc. (including standbys). Each compartment shall contain auto / manual selector switch and indicating lamp with MCB's for 'ON/OFF/TRIP' status of motor					
		b. Spare MCB's of following capacities:					
		i. 32 amps TPN MCB's 6 Nos. or as per load & oprational logic					
		c. Necessary cable alleys, internal / cabling, wiring, cabling from MCC to various pumps / equipment and interlocking, earthing for all equipment shall also included					
		a. All MCCBs / MCBs shall be of 15 KA breaking capacity and suitable for motor duty application.					
		b. All motor starters shall be provided with Automatic level controller					
		c. DOL starters shall be used for mototrs below 5HP and Star-Delta Starters for other motors .					
		d. Provision shall be made for providing potential free contacts to all pumps starters					
1.21		MCC for all STP equipments/pumps as described in sub head II	Job	1	3,970,605.00		3,970,605.00
TOTAL CARRIED TO SUMAMRY							3,970,605.00

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Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

Schedule of Quantities: Solar Photovoltaic Power Plant

S No	DSR 2025/ MR	Item Description	Unit	Qty.	Rate	Amount	
						Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
1	17.1	Supplying Installation, Testing and Commissioning of on-grid Solar Photovoltaic Power Plant conforming to various applicable standards BIS, IEC, MNRE guidelines, the Central Electricity Authority Regulations and CPWD Specifications as amended up to date, consisting of Mono/Poly Crystalline silicon solar cells module, net metering facility, necessary control, protections, earthing, cabling, mounting structure, junction boxes, power conditioning units, Real time online web interfaced Data Monitoring System, Distribution panels, grid connecting arrangement, conduits, pipes, cable trays and other accessories etc. as required.					
	A	High Energy Efficiency Solar Photovoltaic Module of capacity 330 Wp or above, manufactured in India, conforming to IS 14286/IEC 61215, IS/IEC 61730- Part-1, IS/IEC 61730-Part-2. Solar Photovoltaic Module conversion efficiency shall not be less than 23% at STC with temperature coefficient of Pmax better than -0.30% per 0C. PV modules used in solar power plants/ systems must be warranted for their output peak watt capacity, which should not be less than 90% at the end of 10 years and 80% at the end of 25 years. Solar Modules shall be designed to operate in relative humidity upto 100% with temperature between -10 0C and +85 0C. Further, each PV module used in any solar power project must have Radio frequency identification tag with information such as name of manufacturer, month and year of manufacturing, country of origin (separately for Solar cell and module), I-V curve, Unique Serial No and Model No of the module, Wattage, Im, Vm and FF, name of test lab issuing IEC certificate.					
	B	Power Conditioning Unit (PCU) of 350-800 V DC Input voltage range and 415 V AC, three phase, 4 wire, 50Hz +/- 2.5 Hz, output voltage suitable to generate AC with a variation of 10% at nominal voltage. Power with efficiency not less than 97%, total harmonic distortion less than 3% and suitable for ambient temperature from 0 to 50 0C, Minimum IP-65 for outdoor and Minimum IP 21 for indoor, Built-in 91 DELHI SCHEDULE OF RATES (E&M)-2025 meter and data logger, MPPT, switching devices IGBT/MOSFETs and controller Microprocessor /DSP. PCU/inverter shall be capable of complete automatic operation including wake-up, synchronization & shutdown. The PCU shall be able to withstand unbalanced load conforming to IEC standard with shutdown/standby mode. It must be provided with grid islanding along with manual disconnect pole isolation switch besides automatic disconnection. Minimum protections: Mains Under / Over Voltage, Over current, Over/Under grid frequency, Over temperature, Surge voltage induced at output due to external source, Short-circuit, Lightening, Anti Islanding (for grid synch. Mode) and other protections as per applicable standards. LCD/LED display of minimum parameters: DC input voltage, DC current, AC Voltage and current (all 3 phases, in case of 3 phase), Instantaneous & cumulative AC output power, Daily DC energy produced and other parameters applicable standard. Communication interface RS 485 / RS 232.					

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S No	DSR 2025/ MR	Item Description	Unit	Qty.	Rate	Amount	
						Amount DSR	Amount NON DSR
	C	Module mounting structure: The roof top solar plant generation units shall be installed by using supporting Aluminium/Galvanized MS structure (mass of zinc coating shall be as per IS4759) having minimum head room clearance of 2.4 meter above the terrace level / ground level. The mounting structure would be designed to sustain wind load and seismic parameter of the site of installation. All the structure shall be design as per applicable BIS code and the material shall also confirm the applicable BIS Code. Structural material shall be corrosion resistant and electrolytically compatible with the materials used in the module frame, its fasteners, nuts and bolts. The suitable arrangements for maintenance and cleaning shall be provided.					
	D	Real time online web interfaced Data Monitoring System complete with accessories for various parameters such as Solar Irradiance, temperature, AC Output Voltage and current, Output Power, Power factor, DC Input Voltage and Current, Time Active, Time disabled, Time Idle, Power produced and other parameters as per standard practices.					
	E	Array junction box & Main junction box with IP 65 protection and termination arrangement for incoming and outgoing cable along with glands, lugs and other 92 DELHI SCHEDULE OF RATES (E&M)-2025 accessories etc. as required. Each junction box shall be made of GRP/FRP/Powder Coated Aluminium /cast aluminium alloy with full dust, water & vermin proof arrangement with High quality Suitable capacity Metal Oxide Varistors(MOVs) (semiconductor diode with resistant applied voltage)/ surge arrestors and suitable Reverse Blocking Diodes, isolation switches isolate the DC input to Inverter, copper bus bar etc.					
	F	Lightning, surge voltage protection, earthing protection and grid islanding.					
	G	Cables: Connections & Interconnections by required size IR/UV protected XLPE insulated copper conductor 1.1 kV grade armored power and control cables(ISI Marked) along with supplying & fixing of necessary channel/conduit, GI cable trays, supports, lugs, thimble and other accessories etc. as required.					
	H	DC Distribution Board And AC Distribution Panel Board: IP65, free standing, metal clad, having copper bus bar, having required protection and control gears, connection-interconnection, etc. as required.	KWp	50	54280	2,714,000.00	0.00

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S No	DSR 2025/ MR	Item Description	Unit	Qty.	Rate	Amount	
						Amount DSR	Amount NON DSR
2	18.1.4	Parkbay DC Charger (Mode-3) Power Level 2: Normal Power ~24KW and above, 3 phase 415VAC(-40% to +20%), Frequency:50 Hz +/-5%, output supply: DC 12/24 Volt, Operational temperature range : -25 to 55 0C (outdoor), -5 to 55 0C (Indoor), RH upto 95%, Charging Device as per Device/protocol: IS-17017-23, EV-EVSE Communication as per IS-17017-24, ISO 15118, Infrastructure Socket as per IS-17017-2-2/3, Vehicle Connector as per IS-17017-2-3 Vehicle Inlet/ Connector As per EV manufacturer, suitable for 4 wheelers. Indoor use: at least IP42; Outdoor use: at least IP54. Mechanical Strength: protection of the external enclosure against mechanical impact shall be IK08 according to IEC 62262. O/L,S/C protection. Insulation Resistance > 1 M Ω. Cable Length: 7.5 m. RCD having a rated residual operating current not exceeding 30 mA; Separate RCD for multiple outputs. Telecommunication port of the EV supply equipment according to IS 13252 (Part 1) : 2010. OCPP (Open charge point protocol) 1.6J upgradable to ocpp 2.0. Device Should follow 17017 series of IS codes in general and the installation of the system shall comply with relevant IS Codes.	Each	0	888982	0.00	
Total of Solar & EV Charger Works						2,714,000.00	0.00

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SCHEDULE OF QUANTITIES - RO Plant							
S NO	DSR E&M 2025/ MR	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT	
						Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
A.1	MR	SITC of food grade Stainless Steel water cooler with cooling capacity of 40 litres per hour and storage capacity of 80 litres with hot and cold faucet dispenser	Each	6	132986.00		797916.00
A.2	MR	Supply, Installation, Testing and Commissioning of 500 LPH RO system along with 1000 Ltr SS storage tank as per attached technical above	Each	1	997395.00		997395.00
		TOTAL				0.00	1795311.00

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SCHEDULE OF QUANTITIES: BOOM BARRIER							
S No	DSR E&M 2025/ MR	Description	Unit	Qty	Rate	Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
1	MR	SITC of Electromechanical automatic barrier, for 6 m access points. Dimensions 220 x 340 x 1 040 mm, self-supporting steel structure, with protective cataphoresis treatment and powder coating RAL 7015; degree of protection IP54. Built-in control unit housed in the top section of the barrier. Operating temperature ranging between -20°C and +55°C. Usage frequency for 6m boom 2 000 operations/ 24h. MCBF: 3 000000 cycles 24 V motor lubricated with permanent grease. Barrier supply voltage 110V 50/60Hz, or 230V 50/60Hz. Absorbed electric motor power 300 W. Adjustable opening & closing time 2.2 to 4 sec. Impact reaction through an encoder. Balancing by a spring included in the barrier. Manual release with custom key. Including Loop Detector, 2 Channel Remote and Push Button	Each	2	268,000.00		536000.00
		TOTAL				0.00	536000.00

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SCHEDULE OF QUANTITIES: FURNITURE							
S No	DSR/ MR	Item Description	Unit	Qty	Rate	Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
4	MR	The overall size of Chair shall be : Width 660mm , Depth 660mm & Height 1150 to 1250 mm. Seat Size shall be : width 490mm, Actual depth 520mm, Effective depth 430mm and height 475mm to 575mm. Width of the back shall be 425mm at bottom & Lumbar level 440mm & min 480mm at shoulder level. Back height shall be 570mm as measured from seat level. The chair shall be supplied with high quality Mesh at the back. Back outer shall be injection moulded with Nylon GF30% material. Seat should be made up of foam pre moulded at 55 kg/m3 density & hardness of 25+ 3kgf at 50% deflection conforming to IS 3400. The chair shall be supplied with Dynaflex Two Piece Back Construction with IS20D Mesh upholstered. Thickness of seat foam shall be 55 mm. Seat shall be upholstered with micro fabric 100% polyester 180 GSM having abrasion > 50000 cycles fire rated fabric confirming to BS EN 1021. Plywood used shall be 12mm thick 9 ply hot pressed. The Chair should be provided with Synchro tilt Mechanism allowing 360 degree revolving movement along with height adjustability & tilt tension. The mechanism shall allow seat to back recline ratio of 2:5. The Gas Lift used shall be class 4 tested as per ANSI BIFMA standards. Height adjustable Arms to be provided operated through button made of Delrin P 500. Arm pad material shall be polyurethane with 2mm metal insert. Nylon Base having PCD of 660mm five pronged base made up of PA6, 30% glass filled reinforced with bottom ribbing to be provided. 50mm dia twin castors with PA6 material to be provided. Tolerance of +/- 5mm to be considered for product sizes i.e Length, Depth & height and tolerance of 5% to be considered in pipe thickness & Pipe sizes. The OEM shall have ISO 9001, BIFMA Level 2, Green Guard UL Gold Certification, AIOTA, IGBC Gold rated factory certification and India Design Mark.		117	26,370.00		3,085,290.00
5	MR	The overall size of Chair shall be height 870 to 970 +/-5 mm, Back Width 415 mm at Top and 470mm at bottom, and 450mm at the lumbar support. Seat Width 480 +/-5 mm, Seat Depth 440+/-5 mm and Seat height 420mm to 520 mm +/-5mm range. over all chair width should be 540 +/-5mm and Overall chair depth should be 610 +/-5mm. Seat should be made up of foam pre moulded at 55 kg/m3 density. hardness of 25+ 3kgf at 50% deflection conforming to IS 3400. Seat shall be upholstered with micro fabric 100% polyester 180 GSM abrasion > 50000 cycles. No flaming or progressive smoldering within one hour of placement of the cigarettes. Fire rated fabric confirming to BS EN 1021 (match) should be used. The back frame shall be made up of PPGF and the injection molded in black color, armrest also in black color. The chair shall be supplied with Mesh Back rest. The Chair should be provided with center tilt two position lock Mechanism. The mechanism plate shall be attached to seat with 2.5mm thick plate. The mechanism shall allow 360 degree revolving feature along with height adjustability. Fixed arms connected to seat and back in the same colour. Armrest shall be Single piece die casted trapezium shaped arm rest overall size of 280 L x 230 H x 11mm thick at user side. The mechanism shall possess seat to back recline ratio of 1:1. The Gas Lift used shall be class 4 tested as per ANSI BIFMA standards. Nylon Base to be provided. Twin castors 50 mm dia with PA6 material complying to ANSI/ BIFMA X 5.1 2017 standards. the axle pin shall be rust protected zinc passivated. The base shall be made up of nylon glass filled black color. Tolerance of +/- 5mm to be considered for product sizes i.e Length, Depth & height and tolerance of 5% to be considered in pipe thickness & Pipe sizes. The OEM shall have ISO 9001, BIFMA Level 2, Green Guard UL Gold Certification, AIOTA, IGBC Gold rated factory certification and India Design Mark.		71	12,002.00		852,142.00
6	MR	The overall size of the sofa shall be 850 L x 790 D x 790 H. Sofa inner frame structure shall be made mainly from the combination of treated pine wood of 20-25mm thick & neem based plywood sheets. The polyurethane (PU) foam of density 32 and 40 shall be used in seat constructions and 32 density foam used in back construction along with the webbing belts. Seat height should be 440mm (+/- 10mm) and seat depth shall be 525mm (+/- 20mm). Each sofa individual set type shall consist of 4 metal legs of 200 mm height that shall be laser cut and press formed in 2mm thick CR steel in compliance with IS 513: 2008. The legs shall be formed in V-shape with 125 x 125mm length flanges on its top face and moulded leg bush shall be fixed at its bottom that shall support height adjustment of upto 10mm. To support the sofa two nos wide flanges of the leg shall be provided. Legs shall be pretreated through nano ceramic process that shall be environment friendly to enable powder coating to the thickness of 50-80 microns. The fabric used shall be 450-475 gms per meter having abrasion resistance of more than 50K rubs high quality polyester fabric.		9	38,210.00		343,890.00
7	MR	The overall size of the sofa shall be 1450 L x 790 D x 790 H. Sofa inner frame structure shall be made mainly from the combination of treated pine wood of 20-25mm thick & neem based plywood sheets. The polyurethane (PU) foam of density 32 and 40 shall be used in seat constructions and 32 density foam used in back construction along with the webbing belts. Seat height should be 440mm (+/- 10mm) and seat depth shall be 525mm (+/- 20mm). Each sofa individual set type shall consist of 4 metal legs of 200 mm height that shall be laser cut and press formed in 2mm thick CR steel in compliance with IS 513: 2008. The legs shall be formed in V-shape with 125 x 125mm length flanges on its top face and moulded leg bush shall be fixed at its bottom that shall support height adjustment of upto 10mm. To support the sofa two nos wide flanges of the leg shall be provided. Legs shall be pretreated through nano ceramic process that shall be environment friendly to enable powder coating to the thickness of 50-80 microns. The fabric used shall be 450-475 gms per meter having abrasion resistance of more than 50K rubs high quality polyester fabric. The OEM shall have ISO 9001, BIFMA Level 2, Green Guard UL Gold Certification, AIOTA, IGBC Gold rated factory certification and India Design Mark.		19	62,680.00		1,190,920.00

Contractor

(Signature)

NBCC

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

SCHEDULE OF QUANTITIES: FURNITURE							
S No	DSR/ MR	Item Description	Unit	Qty	Rate	Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
12	MR	Overall size of the Conference table shall be 13950W X 3200D X 750H. Main Table shall be 3200 X 750 X 750 (WDH) (table shall provided in two parts) and each side 8 no's of Side Addon Table size shall be 1650 X 750 X 750 (WDH). The worksurface of the table shall be made up of 25mm thick Pre-laminate particle board as per E1 norms and its edges duly sealed with 2mm PVC Lipping on automatic machine at visible sides. Two Long sides of the work surface shall be provided with reverse tapered edge design created by chamfering the board at 45 degree inside for 17mm length & keeping 8mm straight & then edges sealed with 2mm thick PVC Lipping on automatic machine. The modesty shall be provided with 450mm height. The modesty shall be made of 18mm thick prelam partical board. Leg: shall be made up of high pressure aluminum die casted 20 degree tapered, number "7" shape & oblong cross section of about 55mm on top, 45mm at bottom and of 725mm length to get 750mm table height, it shall acts as vertical structural support member, connected by a horizontal cross beams 50x25x1.6thk (16g) ERW tube & connected to the Aluminium diecast vertical legs through a high pressure Aluminium diecast 90deg – 02 way connectors. Wire Management: 450mm Aluminium Flip Up and provision to mount swiches and sockets on PVC cable dump and Vertical wire entry cover made up of steel sheets. The OEM shall have ISO 9001, BIFMA Level 2, Green Guard UL Gold Certification, AIOTA, IGBC Gold rated factory certification and India Design Mark.		1	462,754.00		462,754.00
13	MR	The overall size of Chair shall be height 1210 to 1330 +/-5 mm, Back Width 495 mm at Top, 385mm at bottom and 380mm at the lumbar. Seat Width 500 +/-5 mm, Seat Depth 490 to 550 +/-5 mm and Seat height 480mm to 600 mm +/-5mm range. And over all chair width should be 690 +/-5mm and Overall chair depth should be 630 to 690 +/-5mm. Seat should be made up of foam pre moulded at 55 kg/m3 density. hardness of 25+ 3kgf at 50% deflection conforming to IS 3400. Seat shall be upholstered with Polyester & viscose- 380 GLM, Abrasion- > 45000 cycles. The chair shall be supplied with Lenear Mesh at the back & shall be provided With 290mm width, 180mm height Headrest. Adjustable Lumbar Support full length of size 325 mm,105 mm height and 3mm thickness in contoured form can travel upto 30mm at the back . The Chair should be provided with Synchro tilt Mechanism with Multi lock features. The mechanism shall allow 360 degree revolving feature along with height adjustability. chair shall have seat sliding mechanism.Three Way Adjustable Arms to be provied with height adjustment button made of Delrin P 500 and arm height adjustability nob shall be provided under the armrest. The mechsansim shall possess seat to back recline ratio of 3:7.Tension adjustment knob shall be provided under seat. The Gas Lift used shall be class 4 tested as per ANSI BIFMA standards. Nylon Base to be provied. Twin castors 60 mm dia with PA6 material complying to ANSI/ BIFMA X 5.1 2017 standards.The Back, Armrest and pedestal shall be provided in same Grey colour.Tolerance of +/- 5mm to be considered for product sizes i.e Length, Depth & height and tolerance of 5% to be considered in pipe thickness & Pipe sizes. The OEM shall have ISO 9001, BIFMA Level 2, Green Guard UL Gold Certification, AIOTA, IGBC Gold rated factory certification and India Design Mark.		1	45,784.00		45,784.00
14	MR	Mid Back Chair: The overall size of Chair shall be height 980 to 1080 +/-5 mm, Back Width 420 mm at Top and 480mm at bottom, Seat Width 480 +/-5 mm, Seat Depth 450 to 510 +/-5 mm and Seat height 450mm to 550 mm +/-5mm range. And over all chair width should be 650 +/-5mm and Overall chair depth should be 630 to 690 +/-5mm. Seat should be made up of foam pre moulded at 55 kg/m3 density. hardness of 25+ 3kgf at 50% deflection conforming to IS 3400. Seat shall be upholstered with Polyester & viscose- 380 GLM, Abrasion- > 45000 cycles. The chair shall be supplied with Lenear Mesh at the back & shall be Provided Adjustable Lumbar Support. The Chair should be provided with Synchro tilt Mechanism with Multi lock features. The mechanism shall allow 360-degree revolving feature along with height adjustability. chair shall have seat sliding mechanism. Four Way Adjustable Arms to be provide with height adjustment button made of Delrin P 500 and arm height adjustability nob shall be provided under the armrest. The mechanism shall possess seat to back recline. The Gas Lift used shall be class 4 tested as per ANSI BIFMA standards. Nylon Base to be provide. Twin castors 60 mm dia. with PA6 material complying to ANSI/ BIFMA X 5.1 2017 standards. The Back, Armrest and pedestal shall be provided in same Grey colour. Tolerance of +/- 5mm to be considered for product sizes i.e Length, Depth & height and tolerance of 5% to be considered in pipe thickness & Pipe sizes. The OEM shall have ISO 9001, BIFMA Level 2, Green Guard UL Gold Certification, AIOTA, IGBC Gold rated factory certification and India Design Mark.		70	31,448.00		2,201,360.00

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

SCHEDULE OF QUANTITIES: FURNITURE							
S No	DSR/ MR	Item Description	Unit	Qty	Rate	Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
15	MR	The overall size of Chair shall be: Total height 885 +/-5 mm, Back Width 415mm at Top and 470mm at bottom, Seat Width 490 +/-3 mm, Seat Depth 465+/-3 mm and Seat height 495mm +/-5mm . Over all chair width should be 600 +/-5mm and Overall chair depth should be 585 +/-5mm. Seat shall be upholstered with 100% polyester 180 GSM abrasion > 50000 cycles. No flammings or progressive smoldering within one hour of placement of the cigarettes. Fire rated fabric confirming to BS EN 1021 (match) should be used. The chair shall be supplied with Mesh at the back rest. The chair shall be supplied with injection moulded Back rest with material of PA620%GF. The Chair understructure should be provided with 25.4x1.6 mm thickness Round tube. understructure shall connected with 4nos 50mm dia Twin castors PA6 material complying to ANSI/ BIFMA X 5.1 2017 standards. the axle pin shall be rust protected zinc passivated. Understructure shall powder coated upto 40microns. Fixed arms connected to Back rest with Textured arm pad with size of 290x38x3.5mm. Understructure shall powder coated upto 40 to 60microns. Injection moulded ABS writing tablet with370mm length, 265mm width and 10 thickness shall assembled for arm rest. Tolerance of +/- 5mm to be considered for product sizes i.e Length, Depth & height and tolerance of 5% to be considered in pipe thickness & Pipe sizes. The OEM shall have ISO 9001, BIFMA Level 2, Green Guard UL Gold Certification, AIOTA, IGBC Gold rated factory certification and India Design Mark.		66	13,499.00		890,934.00
16	MR	Reception table : The overall size of the reception table shall be 1800 mm length, 750 mm depth & 1050 mm height. On the front side both ends shall be provided with groove design strips to enhance the overall look. At the centre of the front side L shape surface shall be provided fixed up with hinges to paste logo of the University. The entire table shall be made up of 25mm / 18mm thick pre laminated particle board of E1 norms. Inside of table a working height shelf should be provided or height 750 mm to keep desktop/ laptop and normal working with sitting. the edges of the visible surface shall be sealed with 2mm thick PVC lipping on automatic machine. Unless specified tolerance of +/- 5mm to be considered for product dimensions Length, Depth & height and tolerance of 5% to be considered in thickness & size of material & components used. The OEM shall have ISO 9001, BIFMA Level 2, Green Guard UL Gold Certification, AIOTA, IGBC Gold rated factory certification and India Design Mark.		1	134,727.00		134,727.00
17	MR	The overall size of Chair shall be height 1020 to 1120 +/-5 mm, width should be 595 +/-5mm and depth should be 640 +/-5mm. Back Width 435 mm at Top and 490mm at bottom, Seat Width 500 +/-5 mm, Seat Depth 465+/-5 mm and Seat height 450mm to 550 mm +/-5mm range. Seat should be made up of foam pre moulded at 55 kg/m3 density, hardness of 25+ 3kgf at 50% deflection conforming to IS 3400. Seat shall be upholstered with micro fabric 100% polyester 180 GSM abrasion > 50000 cycles. No flammings or progressive smoldering within one hour of placement of the cigarettes. Fire rated fabric confirming to BS EN 1021 (match) should be used. The chair shall be supplied with Mesh at the back rest. The back frame shall be made up of injection molded nylon GF 3. Adjustable Lumbar Support of size 300 mm length, 150 mm height and 3mm thickness travel upto 65mm. The Chair should be provided with Snchyro mechanism with single lever with one position lock. The mechanism shall allow360 degree revolving feature along with height adjustability one Way with height adjustment button made of Delrin P 500 & arm top shall be PU material. The mechansim shall possess seat to back recline ratio of 3:7. The Gas Lift used shall be class 4 tested as per ANSI BIFMA standards. Nylon Base to be provided. Twin castors 50 mm dia with PA6 material complying to ANSI/ BIFMA X 5.1 2017 standards. The base shall be 660 mm PCD (26 inches) five pronged bases made up of PA6, 30% glass filled reinforced with bottom ribbing for additional buttress and strength. Tolerance of +/- 5mm to be considered for product sizes i.e Length, Depth & height and tolerance of 5% to be considered in pipe thickness & Pipe sizes. The OEM shall have ISO 9001, BIFMA Level 2, Green Guard UL Gold Certification, AIOTA, IGBC Gold rated factory certification and India Design Mark.		1	15,656.00		15,656.00
18	MR	overall size of chair shall be total width 620mm, total depth 600mm and total height 800mm.Back width at bottom shall be 520mm, Back height from seat shall be 390 mm. Seat width 440 mm, Seat depth 450 mm and Seat height 445 mm. The Frame shall be made out of rectangular tube 40X20X2mm & circular tube 32 mm swaged to 19 mm & 1.6 mm thickness. Frame shall welded by CO2 welding process for uniform finsh. Frame leg shall be fitted with Molded LDPE bushes. It shall have molded shell upholstered with fabric. Fire rated of fabric confirming to BS EN 1021(match), IS 15061-2002 is optional. seat shall be provided with top cushion for good comfort. Cushion with pre moulded foam of 50 kg/m3 density & Hardness 29 to 31 kgf at 50% deflection. Powder coat shall be done with black color to provide an attractive finshall h. The powder coating pre-treatment shall be carried out with three in one chemical. After pre-treatment process, the components are powder coated for better adhesion of paint. The frames shall powder coated with epoxy polyester powder to the thickness of 40-60 microns as per shall 101 and oven baked at 180°. Product undergoes the following testing process for durability and functionality, cross cut test for ensuring adhesion of powder coating as per shall 13871. Powder coated products shall be durable & reduce the rshall k of scratches, chipping, abrasions, corrosion, fading and other wear shall sues. The product shall be finalised on the space availability. The OEM shall have ISO 9001, BIFMA Level 2, Green Guard UL Gold Certification, AIOTA, IGBC Gold rated factory certification and India Design Mark.		62	25,476.00		1,579,512.00

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

SCHEDULE OF QUANTITIES: FURNITURE							
S No	DSR/ MR	Item Description	Unit	Qty	Rate	Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
19	MR	The overall size of single cot shall be 2016L X 1050D X 350 /800H. The inner-structure of the cot shall be a welded frame supported by vertical legs of 40x40x1.60 thk (16g) MS-ERW tubes conforming to IS 4923:1997. The metal structure shall be clad with the wooden panels, that shall be the head rest, foot rest side panels are from both side laminated prelam particle board of 18mm thickness. Height of head rest shall be 800mm and foot rest shall be 425mm. The head side Upholstered Cushion shall be provided. The wooden panels shall be designed to cover the mattress by about 10mm from all four sides to avoid slip-off of the mattress, the inner area of the cot can also be used as a storage, since there will be ample space. The panels shall be at a height of 75mm from the ground. Legs come engineering polymer moulded leg bush & levellers for level adjustment. The mattress base shall be from 12mm thk PLPB board. The design offers a knockdown Construction, easy to assemble and a stable product. All metal parts comes with powder coating finish of 60-80 microns thick. All hardware shall be of steel, comes with zinc blue / yellow / black passivation. Unless specified tolerance of +/- 5mm to be considered for product dimensions Length, Depth & height and tolerance of 5% to be considered in thickness & size of material & components used. The OEM shall have ISO 9001, BIFMA Level 2, Green Guard UL Gold Certification, AIOTA, IGBC Gold rated factory certification and India Design Mark.		62	53,900.00		3,341,800.00
20	MR	The overall size shall of the bed side table be 450L x 450D x 510H mm. The storage unit should have 1 Drawer on top + open shelf below. The Storage shall be made up of 18mm thick Pre-laminate particle board E1 norms duly finishall hed with 2mm pvc edge banding on automatic machine. side storage should have one drawer mounted on best quality slides with facia height of 150mm lenght and 450mm wide. The Drawer facia should be handles free and should be finger groove handle-less profile on top side. The finger groove handle-less design shall be created by providing a reverse tapered profile edge of 6mm straight surface & 12 mm tapered towards inside at 45 degree & then sealed with minimum 2mm thick PVC lipping on automatic machine and and bottom edge and should be fitted with cam lock of best quality. Storage shall have 50mm height skirting below. The OEM shall have ISO 9001, BIFMA Level 2, Green Guard UL Gold Certification, AIOTA, IGBC Gold rated factory certification and India Design Mark.		62	8,408.00		521,296.00
21	MR	1 Bay Compactor Construction:- All components like front mechanism box, shelvings, clading sheet etc. shall be made out of superior quality of CRCA sheets. It shall consist of storage units of 450mm deep, movable and bolted to undercarriage that rolls on the channels firmly embedded to the ground. The size of storage body shall be: width 915 mm, depth 450 mm and a height of 1980 mm (overall variance +/- 50 mm) including the storage body height with undercarriage The main body should be rigid knock down construction is made of out of Side /tack/top Panels made up of minimum 0.8mm thick CRCA steel. Each body block should consists of one single fixed unit, one double mobile one single mobile unit and add on as per site conditions and each unit should have 5 loading levels formed by 4 nos of adjustable shelves. The storage body units shall be bolted to the undercarriage. The shelf panel of storage unit should be made of 0.8mm thick CRCA steel having UDL of 40-50 Kg per shelf. The shelves should be mounted on support brackets & its level should be adjustable. There should be 4 adjustable shelves per body giving 5 loading levels. The under carriage should be made with HR sheet min 2.5 min suitably fabricated using welding to take the loads. The MSU should be running on a guidetrack of size 28 mm M.S. round with necessary bracing/channel and base plate. Rails should be 25 mm square bright bar. The bodies including shelves and undercarriages should be given 7 tank antirust surface treatments and finished with powder coating using epoxy polyester powder of 50-60microns. A centralized locking arrangement should be provided through the locking stiffener mounted onto back of single last unit so that it gets locked on channels when all the units are brought together. All the' units should be provided with chrome plated handles. All the MSU should be provided with the features such as mechanical drive with a handle for mechanically assisted drive mechanism consisting of a series of sprocket and chain mechanism for smooth movement of the compactor with minimum effort. It should be fitted with safety guard which is to be engaged when entering the common aisle. This should prevent from operating system when an individual is in the working aisle. The guide track should be provided with an end stopper to avoid derailment of the units. It should be provided with the label holders. The OEM shall have ISO 9001, BIFMA Level 2, Green Guard UL Gold Certification, AIOTA, IGBC Gold rated factory certification and India Design Mark.		26	61,596.00		1,601,496.00

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

SCHEDULE OF QUANTITIES: FURNITURE							
S No	DSR/ MR	Item Description	Unit	Qty	Rate	Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
26	MR	Single Sided Book Rack : The overall size of the book rack shall be 900 L X 370 D X 1950 (LDH)mm. Uprights shall be made up of - MS Pole 40 x 40 x 1.6 Tube having slot single side, size of 25 x 5mm rectangular slot to support the partition bracket having overall size of 300 x 99mm. Two U channel shall be welded with MS square pole size of 13 x 10 x 13 and have 1mm thick for support of back panel. Shelves should be made of MS powder coated metal 1.2mm, supported with hat shaped brackets size of 9 x 10 x 20 x 10 x 9mm and overall size of 36 x 10mm. Back Panel shall be made up of MS Powder coted metal 0.8mm. Top panel, Side Panel & Bottom Panel shall be made up of 18mm thick PLT. Skirting shall be provided of size of 900 x 40mm. Tolerance of +/- 5mm to be considered for product sizes i.e Length, Depth & height and tolerance of 5% to be considered in pipe thickness & Pipe sizes. The OEM shall have ISO 9001, BIFMA Level 2, Green Guard UL Gold Certification, AIOTA, IGBC Gold rated factory certification and India Design Mark.		5	51,213.00		256,065.00
27	MR	The overall size of the café table is 900 dia. The table top shall be made of 25mm thick pre laminate partical boards with E1 norms dully finish with 2mm pvc edge band all the side of worktop. Leg: shall be made up of high pressure aluminum die casted 20 degree tapered, number "7" shape & oblong cross section of about 55mm on top, 45mm at bottom and of 725mm length to get 750mm table height, it shall acts as vertical structural support member, connected by a horizontal cross beams 50x25x1.6thk (16g) ERW tube & connected to the Aluminium diecast vertical legs through a high pressure Aluminium diecast connectors. The OEM shall have ISO 9001, BIFMA Level 2, Green Guard UL Gold Certification, AIOTA, IGBC Gold rated factory certification and India Design Mark.		1	25,572.00		25,572.00
28	MR	The overall size of Chair shall be Total height 840+/-3 mm, Over all chair width should be 535 +/-5mm and Overall chair depth should be 535 +/-5mm. Back Width 360mm at Top and 440mm at bottom, Seat Width 420 +/-3 mm, Seat Depth 425+/-3 mm and Seat height 450mm +/-5mm. Seat and back shell should made by injuction moulding process with plastic material of PPGF20%. Seat and back shall be provided with cushion with fabir Upholstered. The Chair understructure should be provided with 12 mm thickness MS rod loop legs with rod conforming to IS – 7887. Injuction moulded Polycarbonate Leg shoes shall assembled to understructure. seat assembled shall be with silicon bushes to ensure stratch free when chairs stached. Understructure shall powder coated upto 40 to 60microns. The OEM shall have ISO 9001, BIFMA Level 2, Green Guard UL Gold Certification, AIOTA, IGBC Gold rated factory certification and India Design Mark.		4	7,547.00		30,188.00
Total Amount						0.00	31,958,407.00

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

SCHEDULE OF QUANTITIES: STACK PARKING							
S NO	DSR/ MR	ITEM DESCRIPTION	UNIT	QTY	RATE	Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
1	MR	Supply of 2 Level Stack Parking System with Hydraulic based Technology accommodating 2 Cars per module with car carrying capacity of 2000 kg on platform and Car Dimension of 5000 mm length x 2000 mm height (SUV) at Ground level, with average retrieval/parking time not more than 50 seconds. Power pack motor capacity of 1.5 KW, platform thickness 1.5MM, Entry plate and Side Member thickness 3MM. Manufacturing standard; all welding should be TUV certified. One power Pack connected to 5-7 Units					
		Having following safety features as					
		1. Mechanical locks at every 100MM from Ground to platform level.					
		2. Platform arrangement with support structure.					
		3. Mechanical locks at every 100MM from Ground to platform level and sensor					
		4. All Hydraulic/Electrical pipe will be covered with GI Channel pipe cover.					
		5. Hydraulic NRV valve should be placed at ground level for easy manual rescue of cars.					
		6. Chain Magnet Cover plate on each unit.					
		7. Tyre stopper					
		8. Vairous Platform Width as per site conditation i.e. 2100MM to 2400MM					
		9. Pregalvanized item: Platform Side Member, Platform, Chain cover, Pipe cover					
		Total cost per unit	Nos	1	193799.00		193,799.00
		Total Amount	Nos	16	193,799.00		3,100,784.00

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

SCHEDULE OF QUANTITIES: HORTICULTURE							
S No	DSR/ MR	DESCRIPTION	QTY	UNIT	RATE	Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
1		Grass Areas					
1.1	MR	Mixing earth and manure in proportion 8: 1 and spreading to a thickness of 200mm.	140	cum	228.00		31920.00
1.2	MR	Flooding the ground with water including making kiaries and dismantling the same.	100	sqm	190.00		19000.00
1.3	MR	Fine dressing the ground to levels specified.	100	sqm	152.00		15200.00
1.4	MR	Grassing with Korean grass carpet including watering and maintenance of the lawn till the grass forms a thick lawn free from weeds and fit for mowing, including supplying good earth if needed. Inclusive of maintenance for a period of one year after planting.	100	sqm	47.00		4700.00
2		TREES					
2.1	MR	Pit Preparation					
		Digging holes and refilling the same with sweet earth mixed with manure 2 :1 by volume (2 parts of stacked volume of earth after reduction by 20% : 1 part of stacked volume of manure after reduction by 8%), flooding with water, dressing including removal of rubbish and surplus earth if any with all leads and lifts, excluding cost of earth and manure.					
		1.2m x 1.2m Ø	60	nos	152.00		9120.00
2.2	MR	Supply and plantation					
		Planting best quality container- grown healthy trees of species and height as specified. All trees to be approved before planting. Inclusive of maintenance (as specified in section I, item 6.2) for one year after planting.					
		Terminalia mantali	10	nos.	14249.00		142490.00
		Conocarpus erectus	10	nos.	8549.00		85490.00
		Ficus benamina	10	nos.	7219.00		72190.00
		Plumeria rubra pixie	10	nos.	13299.00		132990.00
		Cassia fistula	10	nos.	10449.00		104490.00
		Jacaranda mimosifolia	10	nos.	11399.00		113990.00
TOTAL		60	nos.			651640.00	
2.3	MR	Palms					
a		Cycas revoluta	10	nos.	2850.00		28500.00
b		Washingtonia filifera	10	nos.	5699.00		56990.00
TOTAL		20	nos.			85490.00	

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

S No	DSR/ MR	DESCRIPTION	QTY	UNIT	RATE	Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
3		SHRUBS					
3.1	MR	Pit Preparation					
		Preparing planting beds for shrub planting by excavating and refilling the same with sweet earth mixed with manure 2 :1 by volume (2 parts of stacked volume of earth after reduction by 20% : 1 part of stacked volume of manure after reduction by 8%), flooding with water, dressing including removal of rubbish and surplus earth if any with all leads and lifts; excluding cost of earth and manure.					
a		0.6m x 0.6m x 0.6m	300	nos	152.00		45600.00
3.2	MR	Supply and plantation					
		Planting best quality pot-grown healthy shrubs of species and height as specified, inclusive of preparation and cultivation of shrub beds as specified in section I. All plants to be approved before planting. Inclusive of maintenance (as specified in section I, item 6.2) One year after planting.					
i		Ficus panda	100	sqm.	1900.00		190000.00
ii		Hamelia patens	100	sqm.	1520.00		152000.00
ii		Canna indica dwarf	100	sqm.	1026.00		102600.00
TOTAL			300	sqm.			444600.00
4		GROUND COVERS					
4.1	MR	Pit Preparation					
		Preparing planting beds for ground cover planting by excavating and refilling the same with sweet earth mixed with manure 8: 1 by volume (8 parts of stacked volume of earth after reduction by 20%: 1 part of stacked volume of manure after reduction by 8%), flooding with water, dressing including removal of rubbish and surplus earth if any with all leads and lifts; 0.3m deep. Excluding cost of earth and manure.	400	nos	57.00		22800.00
4.2	MR	Supply and plantation					
		Planting best quality pot-grown healthy ground cover plants of species specified. All plants to be approved before planting. Inclusive of maintenance (as specified in section I, item 6.2) for One year after planting.					
		Ground covers					
A		Ophiopogon jaburans	100	sqm.	285.00		28500.00
B		Seasonal bed/ Rhoecio discolor	100	sqm.	190.00		19000.00
C		Dianella Varigated	100	sqm.	190.00		19000.00
D		Wadelia trilobata	100	sqm.	285.00		28500.00
TOTAL			400	sqm.			95000.00

G. T. S. S. S.

Tender for appointment of Contractor for "Construction of Indian Bank Office Building at Amaravathi, Andhra Pradesh"

S No	DSR/ MR	DESCRIPTION	QTY	UNIT	RATE	Amount DSR	Amount NON DSR
						All Figures in Rs.	All Figures in Rs.
5		Manure and Sweet Earth					
5.1		Manure for Ground Floor Areas					
	MR	Supplying and stacking cow dung manure at site including royalty and carriage(manure measured in stacks will be reduced by 8% for payment). The project labour cost to supply & stack dump at various level of ground as per site requirement.	1	cum	342.00		342.00
5.2		Sweet earth for Ground Floor					
	MR	Supplying and stacking sweet earth including royalty and carriage (sweet earth measured in stacks will be deducted by 20% for payment) for mounds specified level mention in drawing and other areas as per site condition	1	cum	266.00		266.00
		GRAND TOTAL					1425678.00