

ABSTRACT OF COST ESTIMATE

SI No.	Work	Esimated Amount (Rs) (Without GST)
1	CIVIL WORKS	0.00
2	ARCHITECTURAL WORKS	0.00
3	ELECTRICAL WORKS	0.00

TOTAL AMOUNT (RS) 0.00

CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING (CDAC)

Civil Works : Bill of Quantities (BOQ) for Boundary Wall and Road works

BOQ NO.: MEC/01/11/I/0042/CDAC BW & Road works_BOQ (Rev - 0)

Item No.	Description of Items	Unit	Quantity	Unit Rate (incl. GST & CPOH) (in Rs)	Total Cost (incl. GST & CPOH) (in Rs.)	Reference
EW : EARTH WORK						
	Note:					
	(i) Existing Ground level / TL shall be recorded jointly before starting of excavation. All surveying equipment (Total Station / Theodelite) shall be managed by contractor at his own cost.					
	(ii) Carriage / Transport of unserviceable/ surplus earth/ excavated rock/ building rubbish/ malba/ debris/ dismantled or waste material to the designated dumping area will be measured and paid for separately under relevent item No. EW-8					
	(iii) Sufficient quantity of excavated serviceable soil shall be stacked at site for filling in trenches, plinth, sides of foundation / raft etc., to operate item No. EW-6					
	(iv) In case of open footings/Rafts up to the depth of 1.5 metres, allround excavation of 30 cm beyond the outer dimension of footing shall be measured for payment to make allowances for centering and shuttering. Any additional excavation beyond this limit shall be at the risk and cost of the contractor and shall not be measured for payment.					
	(v) In case of open footings/Rafts at a depth of more than 1.5 metre, allround excavation of 75 cm shall be measured for payment to make allowance for centering and shuttering. Additional excavation beyond this limit shall be at the risk and cost of the contractor and shall not be measured for payment.					
	(vi) The quoted rates for all excavation shall include the cost towards any dewatering (if required).					
	(vii) The quoted rates for all excavation shall include the cost towards the side slope protection, shoring, strutting, etc.					
EW-1	Clearing bushes including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level, removal and disposal of rubbish/ unserviceable material to the designated dumping area as directed by the Engineer-in-charge, complete as per specification.	sqm	150		0.00	DSR 2023
	Note: The quoted rate shall include loading, unloading and transportation of rubbish/unserviceable material.					
EW-2	Felling trees of the girth (measured at a height of 1 m above ground level), including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material to the designated dumping area as directed by the Engineer-in-charge, complete as per specification.					
	Note: The quoted rate shall include loading, unloading and transportation of unserviceable material.					
a)	Beyond 30 cm girth upto and including 60 cm girth	each	5		0.00	DSR 2023

b)	Beyond 60 cm girth upto and including 120 cm girth	each	5		0.00	DSR 2023
c)	Beyond 120 cm girth upto and including 240 cm girth	each	2		0.00	DSR 2023
EW-3	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including getting out and stacking (maximum height 40cm) of excavated earth upto 50 m and lift upto 1.5 m, as directed by the Engineer-in-charge, complete as per specification.					
	Note: The quoted rate shall include stacking and preserving the top fertile layer of soil & effective erosion and sedimentation control to prevent erosion around the excavated area and disposal of unserviceable earth to designated dumping area. The carriage of unserviceable earth to designated dumping area / disposal shall be measured and paid for seperately under item no. EW-8 below.					
a)	In all kinds of soil	sqm	200		0.00	DSR 2023
EW-4	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 the excavated earth and disposal of excavated earth outside CDAC premises, as directed by Engineer-in-Charge.					
	Note: Required serviceable earth for back filling should be stacked to operate item no. EW-6 The carriage of unserviceable/ surplus earth to designated dumping area shall be measured and paid for seperately under item no. EW-8 below.					
a)	In all kinds of soil for					
(i)	Lift from 0 mtr upto 1.5 mtr.	cum	1000		0.00	DSR 2023
(ii)	Lift from 1.5 mtr upto 3.0 mtr.	cum	50		0.00	DSR 2023
EW-5	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 the excavated earth and disposal of excavated earth and disposal of excavted earth outside CDAC premises, as directed by Engineer-in-Charge.					
	Note: Required seviceable earth for back filling should be stacked to operate item no. EW-6 The carriage of unserviceable/ surplus earth to designated dumping area shall be measured and paid for seperately under item no. EW-8 below.					
a)	Ordinary rock / Hard Rock (Blasting prohibited)					
(i)	Lift from 0 mtr upto 1.5 mtr.	cum	5		0.00	DSR 2023
(ii)	Lift from 1.5 mtr upto 3.0 mtr.	cum	2		0.00	DSR 2023
EW-6	Earthwork in Filling with available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. including watering, proper consolidating with 10 T power roller (wherever 10 T power roller cannot be operated the consolidation shall be done using 1 T vibro roller or heavy duty powered earth rammer) in layers not exceeding 20cm depth as per instructions of the Engineer-in-Charge (Degree of consolidation 95% of proctor density).					
	Note:					

	(i) The quoted rate shall include excavation, loading, unloading and transport of stacked earth.					
	(ii) The quoted rate shall include the cost for carrying out all the field tests.					
a)	For all depths	cum	300		0.00	DSR 2023
EW-7	Earthwork in filling in all kinds of soil in foundation, trenches, plinth, sides of foundation etc. with approved earth from borrow pits located inside or outside the Plant boundary including excavation, loading, transporting up to a lead of 5km, unloading, depositing, breaking clods, laying of each layers not exceeding 200mm thick, watering and compacting using 8T to 10T vibratory roller to achieve a minimum field dry density of 95% modified proctor density for cohesive & semi-cohesive soil or 70% relative density for cohesionless soil with all bye works complete as per drawing, specification and instruction of the engineer.	cum	775		0.00	DSR 2023
	Note:					
	i. Only compacted volume shall be measured for payment.					
	ii. Existing Ground level shall be recorded jointly before starting of filling work. All surveying equipment (Total Station/Theodolite) shall be managed by contractor at his own cost.					
	iii. The quoted rate shall include the cost for carrying out all the field tests.					
	iv. The quoted rate shall include the cost for Royalty and any other statutory charges.					
EW-8	Lead towards carriage of serviceable/ unserviceable/ surplus earth/ excavated rock/ building rubbish/ malba/ debris/ dismantled or waste material as mentioned below, including spreading and levelling in layers of thickness of not more than 300mm thick and compacting etc., as per the directions of Engineer-in-charge.					
	Note:					
	i. The serviceable/ unserviceable/ surplus earth/ excavated rock/ building rubbish/ malba/ debris/ dismantled or waste material shall be dumped in the designated area (outside CDAC premises) including making necessary temporary approach road if needed.					
	ii. Lead shall be measured per cum per km distance.					
	iii. All distances shall be measured over the shortest practical route and not necessarily the route actually taken. Route other than shortest practical route may be considered in cases of unavoidable circumstances and as approved by Engineer-in-Charge along with reasons in writing.					
	iv. The distance shall be measured for One way travel.					
a)	Lead upto 1 km distance in all lifts	cum	300		0.00	DSR 2023
b)	Lead upto 2 km distance in all lifts	cum	180		0.00	DSR 2023
c)	Lead upto 3 km distance in all lifts	cum	120		0.00	DSR 2023
	Subtotal for EW				0.00	
	CC: PLAIN CEMENT CONCRETE					
	Note:					
	(i) Ordinary Portland Cement shall be used for Plain Cement Concrete works					
	(ii) M-sand shall be used for PCC works					
CC-1	Providing and laying in position plain cement concrete of specified grade excluding the cost of centering and shuttering, at all levels					

(i)	M 7.5 grade- 1:4:8 (1 Cement : 4 M-sand : 8 graded stone aggregate 40 mm nominal size)	cum	5		0.00	DSR 2023
(ii)	M 10 grade- 1:3:6 (1 Cement : 3 M-sand : 6 graded stone aggregate 20 mm nominal size)	cum	50		0.00	DSR 2023
	Subtotal for CC				0.00	
	RC: REINFORCED CEMENT CONCRETE					
	Note: (i) Ordinary Portland Cement shall be used for RCC works (ii) M-sand shall be used for RCC works					
RC-1	Providing, Fixing and Stripping of Shuttering for all types of shapes using good quality plywood or steel plate on steel frame for all types of Structures not covered in respective items including Centering / Scaffolding, all bye works complete as per Drawings, Specifications and directions of the Engineer.					
	Note: Centering, and shuttering where exceeding 3.6 metre height in one floor shall be measured and paid for separately under item no. RC-2 below.					
a)	Foundations, footings, bases of columns, etc. and for mass concrete (Below NGL)	sqm	1300		0.00	DSR 2023
b)	For all other structures upto 3.6m height (Above NGL)	sqm	1500		0.00	DSR 2023
RC-2	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 3.6 m, for every additional height of 1 metre or part thereof (Plan area to be measured).					
a)	For all structures (Plan area to be measured)	sqm	200		0.00	DSR 2023
RC-3	Providing Steel reinforcement for R.C.C. work including supply, straightening, cutting, bending, placing in position and binding all complete at all heights and levels					
	Note: (i) Authorised laps, chairs, spacer bars shall be provided as directed by the Engineer-in-Charge and measured separately and paid for. (ii) Wastage and unauthorized overlaps shall not be paid for.					
a)	Thermo-Mechanically Treated (TMT) bars of grade Fe-500D from JSW/SAIL / TATA / RINL	tonne	12		0.00	DSR 2023
b)	Mild steel and Medium Tensile steel bars	tonne	0.5		0.00	DSR 2023
RC-4	Providing and laying in position reinforced cement concrete work of grade specified below, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of concrete from transit mixer to site of laying , excluding the cost of centering, shuttering finishing and reinforcement, including cost of cement, aggregates , admixtures in recommended proportions as per IS: 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer -in - charge.					

	Note:					
	(i) Minimum cement content per Cum of concrete for M20 shall not be less than 270Kg					
a)	M-20 Grade Design Mix Concrete using ordinary Portland cement (20 mm down graded coarse aggregate), at all levels	cum	500		0.00	DSR 2023
RC-5	Providing and fixing expansion joint filler board using product similar to Capcell-HD-100 of Supreme or approved equivalent make, Semi-rigid UV resistant high performance laminated closed cell polyethylene foam joint filler in sheet form, for filling expansion joint or similar locations complete as directed.					
a)	25 mm thick	sqm	40		0.00	DSR 2023
	Subtotal for RC				0.00	
	MN : MASONRY AND ALLIED WORKS					
	Note:					
	(i) Ordinary Portland Cement shall be used for all items in Masonry and allied works					
	(ii) M-sand shall be used for Masonry and allied works					
MN-1	Supplying & laying random rubble masonry with hard stone reclaimed from demolishiing existing boundary wall as per IS:1597 (Part-1) with hard stone in cement mortar of any shape in foundations and plinth at all depths and heights, curing, etc.,complete with all byeworks as per specification and drawings upto plinth level with:					
a)	Upto Plinth level with Cement mortar 1:6:12 (1 cement : 6 Msand : 12 graded stone aggregate 20 mm nominal size)	cum	150		0.00	DSR 2023
MN-2	Supplying & Laying solid cement concrete block work of 200 thk. / 400thk. (400 L x 200 B x 200 H) at all heights & levels, in cement mortar 1:6 (1 cement : 6 Msand) including projections, pillars, parapet mantle all complete including cut work, scaffolding, curing etc., with all bye-works as per specifications, drawings and directions of the Engineer-in-Charge.					
a)	All work at all levels	cum	959		0.00	DSR 2023
	Subtotal for MN				0.00	
	FN : PLASTERING AND SURFACE FINISHES					
	Note:					
	(i) Ordinary Portland Cement shall be used for all items in Plastering works					
	(ii) M-sand shall be used for Plastering works					
	Plastering to Internal Walls					
FN-1	Providing 12 mm thick cement plaster 1:4 (1 cement : 4 sand) smooth finish as per architectural shapes marked in the drawings, at all depths and heights in one layer on internal faces of walls, pillars, projection, bands, cornices etc., including necessary dabbing, curing, scaffolding, providing GI plaster mesh at junctions of columns, beams etc., complete with all bye works as per drawings & specification and the direction of Engineer in-charge.	sqm	75		0.00	DSR 2023
	Note: The payment for GI plaster mesh will be considered under relevant item.					
	Plastering to External Walls					

FN-6	Providing and fixing suitable GI plaster mesh manufactured out of hot dipped galvanised iron of nominal thickness 0.35mm with a zinc coating of 120 gms per sqm width, along route of walls chipped for services, junctions of masonry / concrete works for 200mm width, including tying in position with suitable nails / screws, cost of material, labour for fixing, etc. ,complete as per manufacturer's specifications and direction of the Engineer In-charge. Note: Length of mesh only be measured for payment.	metre	100		0.00	Market Rate
	Subtotal for FN				0.00	
	ST: STEEL AND IRON WORK					
ST-1	Supplying, Fabricating, Fixing at all levels and positions Steel embedments/ Inserts like Plates, chequered plates, angle, Channels etc., including two coats of approved quality Synthetic enamel paint over a primer coat on the exposed Surfaces wherever necessary, making required holes all complete as per Drawings, Specifications and directions of the Engineer	kg	100		0.00	DSR 2023
	Subtotal for ST				0.00	
	MS : MISCELLANEOUS					
MS-1	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 Msand) including testing of joints etc. complete.					
a)	300 mm dia. R.C.C. pipe	metre	15		0.00	DSR 2023
b)	450 mm dia. R.C.C. pipe	metre	10		0.00	DSR 2023
	Subtotal for MS				0.00	
	RD : ROADS AND PAVEMENTS					
RD-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 earthwith lead upto 50 metres.	sqm	1500		0.00	DSR 2023
RD-2	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 8 to 10T vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge					
a)	With material conforming to Grade-I (size range 75 mm to 0.075 mm)	cum	300		0.00	DSR 2023
RD-3	Providing, laying, spreading and compacting graded stone aggregate (size range 53 mm to 0.075 mm, in 2 layers) to wet mix macadam (WMM) specification including premixing the material with water at OMC in for all leads & lifts, laying in uniform layers with mechanical paver finisher in sub- base / base course on well prepared surface and compacting with vibratory roller of 8 to 10 tonne capacity to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.	cum	300		0.00	DSR 2023

FN-2	Providing 15 mm thick external sponge finish cement plaster 1:4 (1 cement : 4 Msand) as per architectural shapes marked in the drawings, at heights as mentioned below, with approved water proofing compound, shall be finished with sand faced plastering on faces of walls, pillars, projection, bands, cornices, fins, sills, etc., including raking out joints, if any left out, necessary dabbing, curing, scaffolding, providing GI plaster mesh at junctions of columns, beams, etc.complete with all bye works as per drawings & specification and the direction of Engineer in-charge.					
	Note: The payment for water proofing compound and GI plaster mesh will be considered under relevant item.					
a)	Above Ground level up to 10 mtr.	sqm	3000		0.00	DSR 2023
	Plastering to Ceiling / Concrete Surfaces					
FN-3	Providing 6 mm thick cement plaster 1:3 (1 cement : 3 sand) to ceiling of slabs, chajjas including drip course, bands, beams, columns, loft slabs, staircases, and any other location wherever required with all bye works dabbing, curing, scaffolding, including providing GI plaster mesh at junction of columns, beams etc., complete at all heights and levels as per specification and drawings.	sqm	50		0.00	DSR 2023
	Note: The payment for GI plaster mesh will be considered under relevant item.					
FN-4	Extra for providing and mixing water proofing compound/ admixture in cement plaster work/ concrete, etc. in proportion recommended by the manufacturers and as directed by the Engineer-in-Charge.	Kg	50		0.00	DSR 2023
FN-5	Cement plastering in sumps/ drains and similar locations at all depths and heights with cement mortar 1:3 (1 Cement: 3 Msand) with water proofing compound mixed as per manufacturer's instruction, a floating coat of neat cement including benching, haunching, providing proper slopes, all as directed by Engineer-in-charge.					
	Note: The payment for water proofing compound will be considered under relevant item.					
a)	12 mm thick cement plaster	sqm	10		0.00	DSR 2023
b)	20 mm thick cement plaster	sqm	100		0.00	DSR 2023

RD-4	Providing and applying tack coat using bitumen emulsion conforming to IS:8887, using emulsion pressure distributor including preparing the surface & cleaning with mechanical broom.					
a)	With medium setting bitumen emulsion On W.M.M. @ 0.4kg/sqm	sqm	1250		0.00	DSR 2023
RD-5	Providing and laying Dense Graded Bituminous Macadam using crushed stone aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site by tippers, laying with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers as per specifications to achieve the desired compaction and density, complete as per specifications and directions of Engineer-in-Charge.					
a)	With bitumen of grade VG-30 @ 5% (percentage by weight of total mix) and lime filler @ 2% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	cum	65		0.00	DSR 2023
RD-6	Providing and laying Bituminous concrete using crushed stone aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site by tippers, laying with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction and density as per specification, complete and as per directions of Engineer-in-Charge.					
a)	With bitumen of grade VG-30 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	cum	30		0.00	DSR 2023
RD-7	Providing and laying seal coat over prepared surface of road with bitumen heated in bitumen boiler fitted with the spray set spraying using 98 kg of bitumen of grade VG - 10 and blinding surface with 0.90 cum of stone aggregate of 6.7 mm size (Passing 11.2 mm sieve and retained on 2.36 mm sieve) per 100 sqm of road surface, including rolling and finishing with power road roller all complete.	sqm	1250		0.00	DSR 2023
	Subtotal for RD				0.00	

	DM : DISMANTLING					
	Note: The quoted rates for all dismantling works shall include the cost towards the staging, scaffolding, shoring, strutting, etc.					
DM-1	Chipping of plain cement concrete manually/ by mechanical means including disposal of unserviceable material outside CDAC premises as per direction of Engineer - in- charge.	cum	10		0.00	DSR 2023
DM-2	Chipping of R.C.C. work manually/ by mechanical means, cutting pockets, making openings at all levels and according to shapes, with proper care and without damaging the structure, including stacking of steel bars and disposal of unserviceable material outside CDAC premises as per direction of Engineer - in- charge.	cum	20		0.00	DSR 2023
DM-3	Extra for cutting reinforcement bars manually/ by mechanical means in R.C.C. work (Payment shall be made on the cross sectional area of R.C.C. or R.B. work) as per direction of Engineer- in- charge.	sqm	30		0.00	DSR 2023
DM-4	Dismantling of brick work/ Concrete block manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material outside CDAC premises as per direction of Engineer - in- charge.					
a)	In cement mortar	cum	10		0.00	DSR 2023
DM-5	Dismantling/Demolishing stone masonry manually/ by mechnaical means including stacking of serviceable material and disposal of unserviceable material outside CDAC premises as per direction of Engineer-in-charge					
a)	In cement mortar	cum	300		0.00	DSR 2023
	Subtotal for DM				0.00	

TOTAL COST (CIVIL)

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	ARCHITECTURAL ITEMS FOR SECURITY GATE COMPLEX AND BOUNDARY WALL FOR C-DAC , ELECTRONIC CITY , BENGALURU					
S.No	Description Of Item	Unit	Rate	Quantity	Amount in Rupee	Reference
Finishing Works						
FN-1	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.					
	a) Two Coats	SQM		112.71	-	DSR 2023 item no -13.83.2
FN-2	Finishing walls with ready mixed Premium acrylic emulsion paint (Company Depot Tinted) having VOC less than 50 gm/litre and UV resistance as per IS 15489:2004, Alkali & fungal resistance, dirt resistance exterior paint of required shade with silicon additives.					
	a) New work (Two or more coats applied @ 1.43 litre/ 10 sqm over and including priming coat of exterior primer applied @ 0.90 litre/10 sqm.	SQM		3500.00	-	DSR 2023 item no -13.48A.1
FN-3	Providing & Applying high quality acrylic modified resin based texture of Dholpur/Red sand stone Pattern with anti algae and UV resistance properties to be applied as intermediate finish in desired pattern @ 43.04 kg/10 sqm to form film of 1- 1.5 mm thickness after scrapping and properly cleaning the surface to remove loose particles from the plaster surface, followed by top coating with Premium Acrylic Smooth exterior paint with Silicone additives of required shade by two or more coats @ 1.43 litre/10 sqm, complete as the direction of Engineer -in-Charge.	SQM		25.00	-	DSR 2023 item no -22.24A
FN-4	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :					
	a)Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture	SQM		633.27	-	DSR 2023 item no -13.62.1
FN-5	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.	SQM		83.00	-	DSR 2023 item no -13.80
FN-6	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content.				-	
	i) With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre	SQM		112.71	-	DSR 2023 item no -13.85.3
FN -7	Washed stone grit plaster on exterior walls height upto 10 metre above ground level, in two layers, under layer 12 mm cement plaster 1:4 (1 cement : 4 coarse sand), furrowing the under layer with scratching tool, applying cement slurry on the under layer @ 2 Kg of cement per square metre, top layer 15 mm cement plaster 1:1/ 2:2 (1 cement: 1/2 coarse sand : 2 stone chipping 10 mm nominal size), in panels with groove all around as per approved pattern, including scrubbing and washing the top layer with brushes and water to expose the stone chippings ,complete as per specification and direction of Engineer-in-charge (payment for providing grooves shall be made separately).	SQM		314.00	-	DSR 2023 item no - 13.72
FN -8	Forming groove of uniform size in the top layer of washed stone grit plaster as per approved pattern using wooden battens, nailed to the under layer, including removal of wooden battens, repair to the edges of panels and finishing the groove complete as per specifications and direction of the Engineer-in-charge :				-	
	1)15 mm wide and 15 mm deep groove	RM		1000.00	-	DSR 2023 item no -13.73.1
FN -9	Providing and applying a solvent-based, clear acrylic protective topcoat on natural stone, tile, or similar wall cladding surfaces. The coating shall be resistant to water, alkali, and stains, and suitable for exterior applications. The material shall be applied as per manufacturer's specifications, using brush, roller, or spray method to ensure uniform coverage and finish. The coating shall be available in matt or glossy finish, as directed by the Engineer-in-Charge.	SQM		93.43	-	Derived from item no - 13.48.1
	Finishing Total (FN)				-	
Flooring Items						

FL-1	Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, 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. The tiles must be cut with the zero chipping diamond cutter only. Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily.					
	i) Size of Tile 600 x 1200 mm	SQM		27.49	-	DSR 2023 item no -11.41A.3.2
FL-2	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, of approved make, 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.					
	i)Size of Tile 600x1200 mm	SQM		5.49	-	Derived from item no - 11.46.3
FL-3	Providing and applying two coats of High Albedo paint having minimum Solar Reflective Index (SRI) 108 (with solar reflectance & thermal emittance tested as per ASTM C 1549 and ASTM C 1371 respectively), VOC less than 10 cc/gm. The coating thickness and the methodology of application shall be strictly as per manufacturer's specifications and as approved by Engineer-in-Charge. Surface preparation includes cleaning with metal wire brush to remove all dust, fungus etc., washing with water all complete. The contractor shall give guarantee for the performance of SRI and also the durability of coating, all complete as per direction of Engineer-in-Charge.	SQM		24.27	-	DSR 2023 item no - 12.63
FL-4	Providing and laying heavy duty outdoor vitrified anti skid floor tiles of size 600 x 600 mm and 20 mm thickness having water absorption less than < 0.5% and conforming to IS: 15622,ISO 13006:2018 of approved make, 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.(Base price of tile Considered is Rs 2600 per SQM excluding GST)	SQM		5.00	-	Market Quote from Endura and Derived from Item no. 11.41.2
FL-5	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 :					
	1) Flamed finish granite stone slab Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.	SQM		24.62	-	DSR 2023 item no - 11.55.1
FL-6	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias. riser of steps 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, moulding and polishing of edges to give high gloss finish etc. complete at all levels.					
	i) Granite stone slab of colour black, Cherry/Ruby red					
	a) Area of slab upto 0.50 sqm	SQM		5.00	-	DSR 2023 item no - 8.2.2.1
	b) Area of slab over 0.50 sqm	SQM		10.00	-	DSR 2023 item no - 8.2.2.2
FL-7	Stone work (machine cut edges in veneer work) for wall lining upto 10m height, backing filled with a grout of 12 mm thick cement mortar 1:3 (1 Cement : 3 coarse sand) and jointed with Cement mortar 1 :2 (1 cement : 2 stone dust), including grinding with hand grinder on joints, rubbing and polishing complete.					
	1) Prepolished Laterite stone of 18 mm thickness	SQM		75.00	-	Derived From 8.18.1
FL-8	Providing and laying 500x500x40 mm thick Turf paver (Turf-pave XD) 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.	SQM		41.58	-	DSR 2023 item no - 11.45

FL-9	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.				-	
	1) 80 mm thick C.C. paver block of M-35 grade with approved colour design and pattern.	SQM		25.00	-	DSR 2023 item no - 16.91.2
	Flooring Total (FL)				-	
Metal Works						
MW-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 of approved make 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) :					
	i) For fixed portion					
	a) Powder coated aluminium (minimum thickness of powder coating 50 micron)	KG		190.56	-	DSR 2023 item no - 21.1.1.2
	ii) 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)					
	a) Powder coated aluminium (minimum thickness of powder coating 50 micron)	KG		20.00	-	DSR 2023 item no - 21.1.2.2
MW-2	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):					
	i) With float glass panes of 5 mm thickness (weight not less than 12.50 kg/sqm)	SQM		6.12	-	DSR 2023 item no - 21.3.2
	ii)With float glass panes of 8 mm thickness (weight not less than 20 kg/sqm)	SQM		12.40	-	DSR 2023 item no - 21.3.3
MW-3	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.					
	i) Upto 5 mm depth and 5 mm width	METRE		29.00	-	DSR 2023 item no - 21.8.1
MW-4	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.					
	i) In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	KG		6200.00	-	DSR 2023 item no - 10.25.2
MW-6	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.).	KG		20.00	-	DSR 2023 item no - 10.28
MW-7	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.					
	i) Fixed to openings /wooden frames with rawl plugs screws etc.	KG		54.00	-	DSR 2023 item no - 9.48.2

MW-8	Supplying and installation of factory-finished General purpose metal door of size 1000 x 2100 mm from approved make such as M/s Sakthi Hormann or equivalent, conforming to IS 3614 / BS 476 Part 20 & 22 / EN 1634 standards, including frame, leaf, hardware, and accessories, as per specifications and drawings. Material Specifications: Frame : GI 1.60 mm Shutter : GI 1.20 mm Frame Profile (D X H): 143.00 mm X57.00 mm Frame Profile type : Normal Frame Joint Type: Miter Joint Frame Rebate : Single Under Cut: 9.00 mm Door type : Single leaf door Infill Material : Honey Comb Handing : NA Fixing Shield: Universal Anchor				-	
	Hardware set: Frame Set: 1 Shutter: Single leaf door Ball bearing butt hinge,CE430 of size 101x 75 x 3mm with screws in SSS - Hormann-4Nos Mortise dead lock, H4 55mm BS, 20mm sq. forend,SSS - Hormann-1Nos Mortise dead lock, 288A, 55mm BS, 20mm sq. forend,SSS - Hormann-1Nos Euro profile cylinder with keys 3225, 65mm, key x key,satin silver finish - Hormann-1Nos Pull handle D type, 25 dia, , CTC 350mm back to back, with extended spindle, SS 304, SSSfinish - Hormann-1Nos Surface door closer , HDC 35size EN3/4, with standardarm, Silver finish - Hormann-1Nos	EACH		1.00	-	Market Rate from M/s Sakthi Hormann
	Total Metal Works (MW)				-	
Miscellaneous Items						
MI-1	Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main 'T' runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross ·r of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.				-	
	i)12.5 mm thick square edge PVC Laminated Gypsum Tile of size 595x595 mm, made of Gypsum plasterboard, manufactured from natural gypsum as per IS 2095 part I and laminated with white 0.16 mm thick fire retardant PVC film on the face side and 12 micron metalized polyester on the back side with all edges sealed with the face side PVC film which goes around and wraps the edges and is bonded to the edges and the back side metalized polyester film so as to make the tile a completely sealed unit.	SQM		5.00	-	DSR 2023 item no - 12.52.3

MI-2	Providing and fixing 6 mm thick exterior grade High Pressure Laminate (HPL) panels for cladding in walls and in ceilings as per drawings of approved make, of wooden shade finish, compact, solid, exterior UV-stabilized and weather-resistant, conforming to EN 438 / IS standards, fixed over aluminium alloy substructure of approved extruded sections (vertical/horizontal members, cleats, brackets, rivets, etc.) as per manufacturer’s specifications / approval of Engineer In Charge and design.	SQM		60.74	-	Market Quote from M/s Shah Decors Architectural Soutions
MI-3	Supplying and installation of Motorised Telescopic Sliding Gate with Two Movable Leaves & Electromechanical Actuator of clear width 5500 mm overall width 7500 mm and height of 2000 mm with Two Sliding Leaf on One Side including all structural frame, guide systems, drive mechanism, electrical connections, and control systems, complete in all respects as per approved design and direction of Engineer-in-Charge with the following components of approved make - Gate made of mild steel with one coat of grey epoxy primer by spray - Cladding with 6 mm thick HPL Panels of Approved shade and Texture on one side - Sonic 1500J - CE marked Actuator in accordance with European directives and standards - Three Station Push Button - Pair of Photocells with anodised aluminium vertical mountings	Each		0.00	-	Market Quote from M/s Gandhi Automations PVT LTD
MI-4	Supplying and fixing 70 mm thick flamed finish granite slabs including edge moulding on all sides of approved colour, quality, and size, laid vertically over a concrete base, as per approved architectural drawings and direction of Engineer-in-Charge. The granite shall be machine-cut and flame-finished on the exposed surfaces, with all visible edges machine-cut and chamfered/bevelled as specified.	SQM		15.00	-	Derived from DSR - 8.14.2.1
MI-5	Supplying and installing 3D signage lettering with nut shell system in English and Kannada, fabricated from titanium glossy gold finish, in various sizes as per approved design, with 40 mm raised profile and reverse warm white LED backlighting, including power supply unit, wiring, installation hardware, and all accessories, complete in all respects as per drawing and direction of Engineer-in-Charge.	SQ Inch		950.00	-	Market Quote from M/s Info Signs, Bangalore
MI-7	Supplying and installation of custom signage of size 1200 x 1200 mm, fabricated using 5 mm thick white acrylic sheet with UV vinyl printed graphics, mounted within 80 mm aluminium flat black channel frame, with a step-cut 15 mm thick Sunboard (female) design, and integrated cool white LED backlighting, complete with power supply arrangements, wiring, and all accessories as per approved design and direction of the Engineer-in-Charge.	SFT		16.00	-	Market Quote from M/s Info Signs, Bangalore
	Miscellaneous Items (MI)				-	
	TOTAL AMOUNT (Rs)				-	

ELECTRICAL INPUTS

Item.no.	Description of Items	Unit	QTY.	Unit Cost in Rs.	Total Cost in Rs.	Reference
	Note: For all the items, Scope includes Design, manufacture, procurement, supply, transportation , transit insurance, and storage at site, erection, testing and commissioning of following including Hardwares consumables & erection accessories as per drawing, technical specification & direction of site engineer :-					
EL-1	DISTRIBUTION BOARDS :					
EL-1-1	415V 50Hz, 3 Phase and neutral wall mounted 8 WAY lighting distribution board (LDB) having IP-42 sheet steel enclosed with suitable copper busbar, I/C with MCB, Phase wise sub incomer with DP RCBO of 0-30mA sensisitivity , O/Gs with DP RCBO, base channel, earthing, earthing inter connection with all accessories etc as per technical specification & SLD Drg.No. MEC/01/E1/..... Other Details: LDB (8WAY)- I/C: 40A 4P MCB WITH R, Y , B INDICATION LAMP SUB I/C FOR EACH PHASE: 32A DP RCBO WITH 30 mA SENSITIVITY O/G 16A DP MCB	Nos.	1		0	In House Data
EL-1-2	415V 50Hz, 3 Phase and neutral Floor/pedestal mounted Power distribution board OUTDOOR TYPE having IP-55 sheet steel enclosed with suitable busbar, cable alley, I/C chambers with ACB/MCCB, R, Y, B & R, G A indication lamps , O/G chambers, base channel, earthing, earthing inter connection base channel , with all accessories as following: Incoming : 1 No, 63A, 4P MCCB+RCCB+ELCB Outgoing : 16A TPN MCB- 36 Nos.	Nos.	1		0	In House Data
EL-2	Luminairies & Fans					
EL-2-1	1X20W, BATTEN WITH T8 LED TUBE SIMILAR TO MODEL NO. LIBT-120-DS, MAKE ORIENT ELECTRIC	Nos.	4		0	In House Data

EL-2-2	80W LED MEDIUM BAY LIGHT WITH IP 66 DEGREE OF ENCLOSURE PROTECTION	Nos.	2		0	In House Data
EL-2-3	10W, LED BULKHEAD LUMINAIRE WITH IP 66 DEGREE OF ENCLOSURE PROTECTION	Nos.	4		0	In House Data
EL-2-4	40W, COMMERCIAL POST TOP LAMP FIXTURE WITH IP 66 DEGREE OF ENCLOSURE PROTECTION	Nos.	5		0	In House Data
EL-2-9	Supply and fixing ceiling fans complete with blades, down rods, electronic regulator and accessories, 230 V, 1200 mm sweep. Min air delivery 210 CFM with service value 6.00 BEE. Five star rated with brushless direct current motor (BLDC)	Nos.	2		0	In House Data
EL-2-10	Supply and fixing Switch socket outlet multipurpose 5 pin, 16/6 amp controlled by one switch	Nos.	2		0	DSR(E&M), Sl.no.1.32, Page 7
EL-3	Modular white cover plate with frame					
EL-3-1	White cover plate with frame, 8 module	Nos.	1		0	In House Data
EL-3-2	White cover plate with frame, 12 module	Nos.	1		0	In House Data
EL-4	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.					
EL-4-1	6/16 A Modular switch	No.	20		0	DSR(E&M), Sl.no.1.24.1, Page 6
EL-5	Supplying and fixing following Modular Metal Flush Box					
EL-5-1	8 Module	No.	1		0	DSR(E&M), Sl.no.1.27.5, Page 7
EL-5-2	12 module	No.	1		0	DSR(E&M), Sl.no.1.27.6, Page 7
EL-6	Wiring LDB to switchbox Circuit/ 16A/20A power socket outlet Wiring for circuit/sub main wiring along with earth wire with the following sizes of FR is PVC insulated copper conductor, single core cable in surface/ recessed as required in PVC conduits					

EL-6-1	2x1.5 sq. mm + 1x1.5 sq. mm earth wire	M	100		0	DSR(E&M), Sl.no.1.7.1, Page 2
EL-6-2	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire (For Power Sockets)	M	50		0	DSR(E&M), Sl.no.1.7.2, Page 2
EL-6-3	2 X 4 sq. mm + 1 X 4 sq. mm earth wire (For Low Bay Fitting & Conduit Wirings for Future Post top Lamps in Boundary Wall))	M	500		0	DSR(E&M), Sl.no.1.7.3, Page 2
EL-7	Primary points (Wiring with copper conductor FRLS cable in PVC conduits from switchboard to first light point) Point wiring using pvc conduits (wherein Light points controlled form switch boxes)					
EL-7-1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, (without modular switch, modular plate, suitable GI box) and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required. (point length upto 4.5m)	Point	6		0	In House Data
EL-7-2	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 2.5 or 4 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, without modular switch, modular plate, suitable GI box) and earthing the point with 2.5 or 4 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required. (point length upto 15m)	Point	7		0	In House Data
EL-7-3	One 5 pin socket outlet, 16 amps, independent, with cables 2.5 sq. mm size. Item on the same board (along with One 3 pin socket outlet, 5 amps, independent, with cables 2.5 sq. mm size) with other switches,	Point	2		0	In House Data
EL-8	SUPPLY OF LT POWER CABLE					
	Supply of L.T copper/ Alumimium armoured Power Cables as per specifications & approved cable schedule / data sheets having following sizes					
EL-8-1	4Cx6 Sq.mm, 1.1 kV grade XLPE FRLS, copper cable	M	1200		0	In House Data
EL-8-2	4Cx10 Sq.mm, 1.1 kV grade XLPE FRLS, copper cable	M	100		0	In House Data

EL-8-3	4Cx25 Sq.mm, 1.1 kV grade XLPE FRLS, Aluminium cable	M	100		0	In House Data
EL-9	SUPPLYING AND MAKING END TERMINATION FOR LT POWER CABLE:					
	Supplying and making end termination with brass compression gland and Copper lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium/ copper conductor cable of 1.1 KV grade as required					
EL-9-1	4Cx6 Sq.mm, 1.1 kV grade XLPE FRLS, copper cable	Nos.	150		0	In House Data
EL-9-2	4Cx10 Sq.mm, 1.1 kV grade XLPE FRLS, copper cable	Nos.	2		0	In House Data
EL-9-3	4Cx25 Sq.mm, 1.1 kV grade XLPE FRLS, Aluminium cable	Nos.	2		0	In House Data
EL-10	Supplying and fixing MS- 8 Point Terminal Junction Box (Suitable for Copper Cables) for Boundary Wall Cables + Wires Terminations / Looping.	Nos.	80		0	In House Data
EL-11	EARTHING					
	Scope for earthing and lightning protection system : Design, manufacture, procurement, supply, transportation, unloading and storage at site, erection, testing, commissioning of following items including Hardwares consumables & erection accessories as per design datasheet, technical specification:-					
EL-11-1	Supply & Installation of Chemical Earthing consisting of 25mm dia, 3 meter long Stainless Steel (SS) Rod which is incased in conductive concrete as per technical specification including interconnecting copper busbars, Insulated cables and accessories etc.,	set	2		0	In House Data
EL-11-2	Providing and fixing earth bus of 50 mm X 6 mm GI strip on ground / surface including connection/ terminating with nut, bolt, spring, washer etc. as required.	M	40		0	In House Data
EL-12	CONDUITS					
EL-12-1	20mm GI Conduit	M	500		0	In House Data
EL-12-2	16mm PVC Conduit	M	50		0	In House Data
					₹ 0	Total Cost in Rs.