

GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT
Schedule Of Works

State: West Bengal
CIRCLE: BARASAT

BRANCH : B&R
DIVISION : BCED

Name of work: Construction of Office Cum Laboratory Building for Export Inspection Agency at New Town, Kolkata. (SH: SITC of double tier Mechanical Car Parking System for Four wheeler car parking).

Sl. No.	Description of Item	Qty	Rate (Rs.)	Unit	Amount (Rs.)	Remarks
	SH - I (Multi-level Mechanical car parking system)					
1.1	Design, supplying, installation, testing and commissioning of double tier Mechanical indoor car parking system for parking of 2 nos. Four Wheeler Car in slit area of building with Hydraulic lift of following capacity (in tons) as per detailed specification given as under :					
ii)	Location -Indoor					
iii)	Equipment (System) Details					
	a) Pallet Material -M.S Pre Galvanised High Tensile Steel Sheet with minimum thickness 1.5 mm.					
	b) Anti skid surface for pallet					
	c) Minimum permissible load on each pallet (in Kgs)= 2000 Kgs					
iv)	Car Details To be fit in Pallet					
	a) System (Pallet) length (mm) - 3725 MM					
	b) System (Pallet) width (mm) - 2300 - 2400 MM					
	c) Maximum Permissible car size (length) on Pallet (Upper tier & Lower Tier) - 5000 mm					
	d) Maximum Permissible car size (Width) on Pallet - 1900 mm / 2000 mm (Upper Tier)					
	e) Height adjustable after installation - min 200 mm variation					
	f) Side Beam & Entry Plate - HOT Dip Galvanization of 100 Microns					
	g) Electrical Supply : 3 Phase , 415 Volt , 50 Hz AC Supply					
v)	Protection Class					
	a)Magnetic Coil : Not less than IP - 55					
	b)Operating Box : Not less than IP - 55					
vi)	Motor Details :					
	a) Rating in KW- Not less than 1.50 KW					
	b) Type- Submersible					
	c) Motor over heat protection- Thermal overload relay					
	d) Protective device for motor- Thermal overload relay					
vii)	Suitable Power Packs for MLCP system (One power pack unit for maximum Four MLCP unit)					
	a) Flow Rate (l/mn)- min 0.70 lit/min					
	b) Maximum Working Pressure (bar) - 170 - 180 Bar or better					
viii)	Service/Operation time					
	a) Lifting Time of Pallet (in Sec.)- Approx. 50/60 sec or better					
	b) Lowering Time of Pallet (in Sec.)- Approx. 30/35 sec					
ix)	Sound emmission (in db)-Less than 40db					
x)	Operation Mode- Hold to run operation					
xi)	Hoisting Mode -Hydraulic Cylinder					
xii)	Safety Device					
	a) Mushroom type Emergency Stop Switch					
	b) Manual Mode operation during emergency/ fault (without power)					
	c) Tyre check - Hot Dip Galvanized Tyre stopper of min. 6mm thick					
	d) Motor Brake During Power Faliure : Sytems stop where it is and don't run incase of Motor failure					
	e) Chain based (Chain Cover Galvanized which protects the chain & electromagnet)					
	f) Electromagnet Safety Lock from top to bottom at every 100 mm to ensure safety & hydraulic NRV.					
	Necessary cabling & interconnections complete etc.					
	Manufacturer have European safety standard EN ISO-14010 & quality production certificate from TUVNORD, DIN EN ISO- 3834-2 or equivalent & also qualification for welding works according to International norms ISO 3834-2.					
	Complete multi tier car parking system as above	21.00	₹ 200,028.00	Job	₹ 4,200,588.00	MR
1.2	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 steel conduit as required.					1.7 DSR-2025
1.2.1	4 X 10 sq. mm + 2 X 6 sq. mm earth wire	170.00	₹ 1,253.00	Mtr.	₹ 213,010.00	1.14.4
1.3	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required . (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)					2.5 DSR-2025
1.3.1	8 way (4 + 24), Double door	1.00	₹ 10,724.00	each	₹ 10,724.00	2.5.2

Sl. No.	Description of Item	Qty	Rate (Rs.)	Unit	Amount (Rs.)	Remarks
1.4	Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, Ics=100% Icu and Operational Voltage 690V etc. as required.					2.2 DSR-2025
1.4.1	125 A,36KA,FPMCCB	1.00	₹ 8,644.00	each	₹ 8,644.00	2.2.14
1.5	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "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 DSR-2025
1.5.1	Triple pole	8.00	₹ 1,070.00	each	₹ 8,560.00	2.10.4
1.6	Supplying and fixing Cable End Box (Loose Wire Box) suitable for triple pole and neutral, sheet steel, Vertical MCB distribution board, 415 Volts, on surface/ recess, complete with testing and commissioning etc. as required.	1.00	₹ 1,271.00	each	₹ 1,271.00	DSR-2025 2.25
1.7	Supplying of XLPE insulated PVC sheathed Aluminium conductor 1.1 KV grade steel armoured UG cable confirming to IS 7908 (Part-I) as amended up to date of following sizes.					
1.7.1	3.5 X 70 sq. mm	100.00	₹ 1,020.00	Mtr.	₹ 102,000.00	MR
1.8	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.					DSR 2025
1.8.1	3½ X 70 sq. mm (38mm)	2.00	₹ 542.00	each	₹ 1,084.00	11.1.23
1.9	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required.					DSR 2025
1.9.1	Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp)	10.00	₹ 151.00	Mtr.	₹ 1,510.00	10.7.2
1.10	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing masonry open duct as required.					DSR 2025
1.10.1	Above 35 sq. mm and upto 95 sq. mm	10.00	₹ 58.00	Mtr.	₹ 580.00	10.6.2
1.11	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required.					DSR 2025
1.11.1	Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp)	80.00	₹ 109.00	Mtr.	₹ 8,720.00	10.8.2
1.12	Supplying and fixing 32 Amp rating, Four pole, 415 V , "C" curve miniature circuit breaker suitable for inductive load in Outdoor type IP 66 rated Polycarbonate Cable Junction Box of suitable size for 10-16 sqmm cable termination with heavy duty connector complete with connections, testing and commissioning etc. as required.	6.00	₹ 3,901.00	each	₹ 23,406.00	MR
	Cable Tray					
1.13	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray (Galvanisation thickness not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with two numbers GI Suspenders i/c base of suitable size GI angle, GI bolts & nuts, fastner etc as required.					DSR-2025
1.13.1	100 mm width X 50 mm depth X 1.6 mm thickness	80.00	₹ 754.00	Mtr.	₹ 60,320.00	4.6.1
1.14	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 metre long etc. with charcoal/ coke and salt as required.	2	₹ 8,351.00	each.	₹ 16,702.00	5.4 DSR-2025
1.15	Providing and fixing 25 mm X 5 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.	12	₹ 755.00	mtr.	₹ 9,060.00	5.11 DSR-2025
1.16	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	80	₹ 287.00	mtr.	₹ 22,960.00	5.15 DSR-2025
	TOTAL				₹ 4,689,139.00	

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