

Government eProcurement System Created By: Jagir Singh Created Date/Time: 01-Sep-2023 10:00 AM Tender Title: Provision of Tensile fabric canopy in Pickup and Drop Lane city side at SGRDJ International Airport Amritsar. Tender ID: 2023_AAI_161059_1
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Tender Inviting Authority: AGM (E-C)

Name of Work: Provision of Tensile fabric canopy in Pickup and Drop Lane city side at SGRDJ International Airport Amritsar.

Contract No: 2023_AAI_161059_1

SCHEDULE OF WORK / ITEM(S)

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Estimated Rate	Proficio Engineering And Construction Pvt. Ltd.(GSTN-NA)		Classicon Projects India Pvt. Ltd.(GSTN-NA)		ravi abrol(GSTN-NA)		WESTERN OUTDOOR STRUCTURES PRIVATE LIMITED(GSTN-NA)		JCC ENGINEERS PRIVATE LIMITED(GSTN-NA)	
					Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount
1.00	Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	270.00	sqm	178.61	250.00	67500.00	160.00	43200.00	1000.00	270000.00	400.00	108000.00	200.00	54000.00
2.00	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge. a) Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)	260.00	cum	178.61	1000.00	260000.00	1200.00	312000.00	1500.00	390000.00	500.00	130000.00	900.00	234000.00
3.00	Taking out existing kerb stones of all types from footpath/ central verge, including removal of mortar etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.	300.00	metre	178.61	200.00	60000.00	40.00	12000.00	200.00	60000.00	200.00	60000.00	30.00	9000.00
4.00	Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.	1460.00	sqm	178.61	250.00	365000.00	100.00	146000.00	150.00	219000.00	300.00	438000.00	100.00	146000.00
5.00	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-incharge. a) All kinds of soil	700.00	cum	178.61	110.00	77000.00	250.00	175000.00	200.00	140000.00	300.00	210000.00	100.00	70000.00
6.00	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. a) All kinds of soil.	700.00	cum	178.61	110.00	77000.00	250.00	175000.00	200.00	140000.00	350.00	245000.00	150.00	105000.00
7.00	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials. a) All kinds of soil	350.00	cum	178.61	80.00	28000.00	80.00	28000.00	80.00	28000.00	120.00	42000.00	50.00	17500.00

8.00	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	175.00	cum	178.61	150.00	26250.00	2200.00	385000.00	1800.00	315000.00	4000.00	700000.00	1500.00	262500.00
9.00	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : a) 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	50.00	cum	178.61	4500.00	225000.00	7000.00	350000.00	4800.00	240000.00	6500.00	325000.00	6323.10	316155.00
10.00	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: a) Cement mortar 1:4 (1 cement : 4 coarse sand)	14.00	cum	178.61	5500.00	77000.00	9000.00	126000.00	9000.00	126000.00	8000.00	112000.00	6000.00	84000.00
11.00	12 mm cement plaster of mix : a) 1:4 (1 cement: 4 fine sand)	120.00	sqm	178.61	220.00	26400.00	300.00	36000.00	300.00	36000.00	450.00	54000.00	200.00	24000.00
12.00	Laying old cement concrete interlocking paver blocks of any design/ shape laid in required line, level, curvature, colour and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge. (Old CC paver blocks shall be supplied by the department free of cost).	150.00	sqm	178.61	300.00	45000.00	300.00	45000.00	900.00	135000.00	550.00	82500.00	300.00	45000.00
13.00	Laying at or near ground level old kerb stones of all types 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 be more than 5 mm), including making drainage opening wherever required etc. complete as per direction of Engineer-in-charge. (Length of finished kerb edging shall be measured for payment). (Old kerb stones shall be supplied by the department free of cost)	80.00	mtr	178.61	400.00	32000.00	150.00	12000.00	550.00	44000.00	550.00	44000.00	50.00	4000.00
14.00	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size) in pavements, laid to required slope and camber in panels as required including consolidation finishing and tamping complete.	260.00	cum	178.61	5800.00	1508000.00	7000.00	1820000.00	6000.00	1560000.00	7000.00	1820000.00	5000.00	1300000.00
15.00	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) : a) 25 mm thick	450.00	sqm	178.61	1250.00	562500.00	2000.00	900000.00	1450.00	652500.00	2300.00	1035000.00	1500.00	675000.00
16.00	Centering and shuttering including strutting, propping etc. and removal of form work for : a) Foundations, footings, bases for columns	125.00	sqm	178.61	500.00	62500.00	300.00	37500.00	200.00	25000.00	650.00	81250.00	200.00	25000.00

17.00	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : a) 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)	320.00	cum	178.61	4500.00	1440000.00	6000.00	1920000.00	5500.00	1760000.00	6500.00	2080000.00	5000.00	1600000.00
18.00	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 and using recycled concrete aggregate (RCA) as coarse aggregate and fine aggregate within permissible utilization of 20% each, 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. a) All works upto plinth level Concrete of M25 grade with minimum cement content of 330 kg /cum	225.00	cum	178.61	6200.00	1395000.00	8000.00	1800000.00	8500.00	1912500.00	7000.00	1575000.00	5500.00	1237500.00
19.00	Add for using extra cement in the items of design mix over and above the specified cement content therein.	80.00	quintal	178.61	800.00	64000.00	500.00	40000.00	800.00	64000.00	800.00	64000.00	500.00	40000.00
20.00	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. a) Thermo-Mechanically Treated bars of grade Fe-500D or more.	27000.00	kg	178.61	75.00	2025000.00	90.00	2430000.00	90.00	2430000.00	86.00	2322000.00	75.00	2025000.00
21.00	Centering and shuttering including strutting, propping etc. and removal of form for a) Foundations, footings, bases of columns, etc. for mass concrete	1200.00	sqm	178.61	600.00	720000.00	300.00	360000.00	450.00	540000.00	450.00	540000.00	200.00	240000.00
22.00	Providing and fixing mild steel round holding down bolts with nuts and washer plates complete.	3000.00	kg	178.61	95.00	285000.00	120.00	360000.00	150.00	450000.00	180.00	540000.00	80.00	240000.00

23.00	Providing, Fabricating, Assembling, painting, hoisting, erecting and placing in position MS Built-up section/Tubular Structure (MS built-up section :-Rolled section & plates conforming to IS 2062 minimum required grade E250,Tubular Structure:- made from Steel hollow sections, ISI marked from SAIL / RINL / TATA/JINDAL/APPOLO, conforming to IS 1161/4923, minimum required Grade YST 310, in the profile shape as per drawings with special plate connector, pinion joints, Plates, hollow sections etc. using water jet 3-D cutting/Plasma cutting/ CNC Oxyfuel cutting system for obtaining smooth 3-dimensional curvature, SAW/MMAW/MIG welding process with special plate connectors, pinion joints, plates, hollow sections to all heights, tools and plants and necessary scaffoldings etc. required for all operations involved. The structural members shall be painted with 350 DFT anticorrosive protection coating using Primer cum MIO of approved make with two coat of Epoxy Primer cum MIO 125 microns (each coat) thick and final coat of polyurethane paint 100 microns thick (to be applied in 2 coats). Up to all heights including preparation of the surface by copper slag blasting before application of primer/paint as per SA2.5 standards. The item shall be executed as per approved drawings, Particular Specifications and direction of the Engineer-inCharge complete. (Note: Fabrication yard must be having facility of jet 3-D cutting/Plasma cutting/ CNC Oxyfuel cutting system for obtaining smooth 3-dimensional curvature as approved by Engineer -In -Charge)	85000.00	kg	178.61	136.00	11560000.00	180.00	15300000.00	155.00	13175000.00	191.00	16235000.00	130.00	11050000.00
24.00	Tensile Membrane Fabric: Providing, fabricating, assembling and erection of pre stressed Tensile Membrane Fabric structure in desired profile as per drawing, with Mehler Technologies Valmex Type III Mehatop N or Serge Ferrari TX30 Type-III fabrics or 759 Atlas architecture Type-III TFL having a minimum weight of 1050 g/sqm with flame retardancy EN 135011:BS2D0. Weldable PVDF lacquer on both sides, Colour of the fabric should be White, Conditional warranty of 20 years on the fabric, over steel frames with all fittings and fixtures such as Galvanised MS Membrane / End Plate, Shackles, Rigging Screws, Turnbuckles, swedge, fork, keder rods & galvanized MS strands / cables with stainless steel end terminals complete as per Drawing / Detail & as per technical specifications and as per the instructions of Engineer-in-charge. (Rate includes cost of fabric, shop drawings, patterning, forming, cutting, fabrication, hot weld stitch of fabric, Transport to the site, assembling and installation with GI cables, hardware, Aluminum flat, EPDM gasket and required accessories wherever required complete including lifts up to all heights, tools and plants, and necessary scaffolding etc. required for all operations in all respect as per direction of Engineer-In-Charge). (Note : 01. Actual Plan area of canopy shall only be measured for payment. 02. The fabricator should be authorized by fabric manufacturer duly approved by EIC.)	1800.00	sqm	178.61	2450.00	4410000.00	4000.00	7200000.00	3303.00	5945400.00	3500.00	6300000.00	2400.00	4320000.00

25.00	Providing and fixing G.I. pipes complete with G.I. fittings and clamps,i/c cutting and making good the walls etc. Internal work - Exposed on wall a) 100 mm dia nominal bore	225.00	mtr	178.61	1350.00	303750.00	1650.00	371250.00	1800.00	405000.00	1800.00	405000.00	1600.00	360000.00
26.00	Providing and fixing G.I. pipes complete with G.I. fittings and clamps,i/c cutting and making good the walls etc. Internal work - Exposed on wall a) 40 mm dia nominal bore	120.00	mtr	178.61	850.00	102000.00	800.00	96000.00	1400.00	168000.00	750.00	90000.00	600.00	72000.00
27.00	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 10 mm gap for thermal expansion, (i) Single socketed pipes. a) 110 mm diameter	250.00	mtr	178.61	560.00	140000.00	350.00	87500.00	1800.00	450000.00	350.00	87500.00	250.00	62500.00
28.00	Providing Engineering Consultancy Services for Design, engineering, and patterning of Architectural Membrane, cables and related perimeter attachment hardware i/c associated structural steel ,RCC foundation work rain water drainage with all relevant calculation sheet and design vetted by I.I.T/NIT/Reputed Government College, issue of good for construction drawings and revision of drawing if required during execution etc. as specified in tender document and any other details related to consultancy work which are essential for successful execution of works etc complete as per direction and satisfaction of EIC.The steel structure has to be designed as per conceptual drawings of Tensile fabric profile including all arch beam, curved lateral beams and bracings, vertical support columns, nodal joints, ,bases of columns and SS pin joints as applicable.	1.00	Job	178.61	3000000.00	3000000.00	400000.00	400000.00	581700.00	581700.00	2000000.00	2000000.00	225000.00	225000.00
29.00	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.	160.00	cum	178.61	160.00	25600.00	150.00	24000.00	90.00	14400.00	263.00	42080.00	200.00	32000.00
30.00	CARRIAGE OF MATERIALS By Mechanical Transport including loading,unloading and stacking upto 2 Km. a) Earth	700.00	cum	178.61	600.00	420000.00	250.00	175000.00	1250.00	875000.00	350.00	245000.00	150.00	105000.00
31.00	CARRIAGE OF MATERIALS By Mechanical Transport including loading,unloading and stacking upto 2 Km. a) Lime, moorum, building rubbish	150.00	cum	178.61	600.00	90000.00	250.00	37500.00	1500.00	225000.00	280.00	42000.00	150.00	22500.00
32.00	Deduct for taking away of serviceable old kerb stones of all types from footpath/ central verge and the like received from dismantling. The material so received shall be the property of contractor after dismantling duly measured from the site in the presence of Engineer-in-charge or his authorized representative all complete.	300.00	each	178.61	-20.00	-6000.00	-10.00	-3000.00	-5.00	-1500.00	-1.00	-300.00	-7.00	-2100.00
33.00	Deduct for taking away of serviceable old CC interlocking paver blocks from footpath/ central verge and the like received from dismantling. The material so received shall be the property of contractor after dismantling duly measured from the site in the presence of Engineer-in-charge or his authorized representative all complete.	15000.00	each	178.61	-10.00	-150000.00	-1.00	-15000.00	-5.00	-75000.00	-1.00	-15000.00	-3.00	-45000.00

Total in Figures

29323500.00

35185950.00

33300000.00

38039030.00

24955555.00

Lowest Amount Quoted BY: JCC ENGINEERS PRIVATE LIMITED(24955555.00)