

Government eProcurement System Created By: KUMARASWAMY ULAGANATHAN Created Date/Time: 14-Feb-2020 01:07 PM Tender Title: OFC LAYING WORKS AT ACS BELLARY Tender ID: 2020_AAI_41234_1

Tender Inviting Authority: Officer-In-Charge (OIC), CNS, Airports Authority of India (AAI), Bellary

Name of Work: Execution of Armoured 12F Single mode OFC Cable laying work and Fiber termination to a Wall Mounted Cabinet for FTI P

Contract No: AAI/CNS/BI/FTI/OFC/TENDER/2020

SCHEDULE OF WORK / ITEM(S)

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Estimated Rate	R R GUPTA STEEL INDUSTRIES		M S Construction	
					Rate	Amount	Rate	Amount
1.00	Execution of Armoured 12F Single mode OFC Cable laying work and Fiber termination to a Wall Mounted Cabinet for FTI Purpose - Works							
1.01	Laying of underground armoured 12 Core, Single Mode (SM) OFC Cable from FTI room to RCAG site through 1.5 feet width and 4 feet depth trench and HDPE conduit (3 inch diameter) on either side of the road. 1. The trench has to be prepared with first layer of bricks, will put HDPE pipe, then second layer will be bricks, will put high visibility Ribbon tape, final layer with soft sand. 2. HDPE pipe and GI pipe environmentally sealed properly where ever laid.3. Three mm Continuous guide wire without joints within/inside GI and HDPE pipes for laying /Pulling cables. 4. Routing Diagram is attached for reference.	1400.00	metres	100.00	180.00	297360.00	250.00	413000.00
1.02	Laying a high-visibility tape/ribbon marked with a warning 1.5 feet above the cable.	1400.00	metres	100.00	10.00	16520.00	10.00	16520.00
1.03	Fixing of GI Conduit 6" dia. About 3 mm thickness and 6m length to cross the culvert along the laying path. While crossing Culverts GI Pipe should be placed at suitable height by constructing two plinths (Cement) on both sides of crossing culvert to support GI pipe, total- 8 Cement Plinths.	7.00	Nos	10.00	1000.00	8260.00	10000.00	82600.00
1.04	16SWG GI sheet Route Markers shall be erected in the shape of a Flag of size 10 inch X 6 inch to be marked as "FTI OFC". The flag will be on a 3 feet iron rod out of which 1.5 feet will be embedded in the ground at an interval of 100 meters and at any turning in the path of OFC cable	20.00	Nos	10.00	500.00	11800.00	200.00	4720.00

L1 Amount	L1 Vendor
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297360.00	R R GUPTA STEEL INDUSTRIES
16520.00	R R GUPTA STEEL INDUSTRIES, M S Construction
8260.00	R R GUPTA STEEL INDUSTRIES
4720.00	M S Construction

1.05	Laid OFC cable fibers 12F are to be spliced & terminated with LC connectors (LC 100base LX single mode) in a wall mounted Optical termination box metallic type at each location. Total- 6 OTBs 1. Proper attention has to be provided for routing of tubes and drop/patch cable 2. Bend radius maintenance at all points 3. Key to prevent un authorized access 4. Cable and FRP holding options 5.FTTx application 6. Sample wall mounted Optical termination box attached for reference.	6.00	Nos	10.00	250.00	1770.00	4000.00	28320.00
1.06	Manhole Chambers Digging & Construction of brick chamber with MS top cover along with handle, of size 2mx2mx1.8m depth	6.00	Nos	10.00	8000.00	56640.00	8000.00	56640.00
1.07	Back Filling and Dressing of the Trench with excavated soft earth sand	1400.00	metres	10.00	20.00	33040.00	85.00	140420.00
1.08	Testing: Providing a performance report on each fiber core in the bundle at the time of completion. The testing device used to provide this data is the OTDR. The signal loss of each Core shall be 0.5 dB per kilometer or less (1310nm). Each splice (such as between the fiber and the LC connector can be expected to incur additional signal loss of .3 dB or less. The higher Signal loss readings may indicate that the fiber installation has severe bends, which can't be accepted. The contractor has to ensure to rectify abnormal signal losses at his own cost, efforts and without any time delay.	1.00	Job	10.00	25000.00	29500.00	45000.00	53100.00
2.00	Execution of Armoured 12F Single mode OFC Cable laying work and Fiber termination to a Wall Mounted Cabinet for FTI Purpose - Connectivity Devices							
2.01	Supply of Wall mounted Optical termination box metallic type at each location. OFC cable fibers 12F, SM are to be spliced & terminated with LC connectors (type LC 100base LX single mode connector) panel. Diagram attached.	6.00	Nos	10.00	7000.00	49560.00	200.00	1416.00
2.02	LC Type Patch Cables, Single Mode	24.00	Nos		700.00	19824.00	200.00	5664.00
2.03	HDPE DUCT Pipe (3 inch diameter)	1400.00	metres	10.00	100.00	165200.00	200.00	330400.00
2.04	High-visibility tape/ribbon marked with a warning over the cable.	1400.00	metres	10.00	10.00	16520.00	15.00	24780.00
2.05	GI Sheet OFC Route markers with Name "FTI OFC"(Yellow Painted)	20.00	Nos	10.00	1000.00	23600.00	400.00	9440.00

1770.00	R R GUPTA STEEL INDUSTRIE S
56640.00	R R GUPTA STEEL INDUSTRIE S, M S Constructio n
33040.00	R R GUPTA STEEL INDUSTRIE S
29500.00	R R GUPTA STEEL INDUSTRIE S

1416.00	M S Constructio n
5664.00	M S Constructio n
165200.00	R R GUPTA STEEL INDUSTRIE S
16520.00	R R GUPTA STEEL INDUSTRIE S
9440.00	M S Constructio n

2.06	GI Pipe 6 " Dia	7.00	Nos	10.00	4800.00	39648.00	5000.00	41300.00
2.07	Cement plinths of Size 0.5X0.5XH(LXBXH in meters)	8.00	Nos	10.00	1500.00	14160.00	5000.00	47200.00
2.08	Rigid PVC Pipe 3" Dia	40.00	metres	10.00	50.00	2360.00	350.00	16520.00
2.09	Manhole Chambers-- construction of brick chamber with MS top cover along with handle, of size 2mx2mx1.8m depth	6.00	Nos	10.00	8000.00	56640.00	15000.00	106200.00

39648.00	R R GUPTA STEEL INDUSTRIE S
14160.00	R R GUPTA STEEL INDUSTRIE S
2360.00	R R GUPTA STEEL INDUSTRIE S
56640.00	R R GUPTA STEEL INDUSTRIE S

Total in Figures

842402.00

1378240.00

Lowest Amount Quoted BY: R R GUPTA STEEL INDUSTRIES(842402.00)

Signature Not Verified

Digitally signed by ULAGANATHAN
KUMARASWAMY
Date: 2020.02.14 13:22:58 IST
Location: eProcurement System for
Central PSUs