

Letter No. AAI/VOGB/CNS/DVOR/OFC & RF LINK/2022/195

Date: 27.07.2022

To,

M/s. DATA LINKS
No.51/4, Nettal Garden 2nd Street,
Perambur,
Chennai. 600011
datalinkschn@gmail.com
91-9840962684

Sub: Work order for SITC of OFC, RF Link and Network Components for DVOR/DME Installation
Project at AAI, Kalaburagi Airport.

Reference:

1. Tender Document: AAI/VOGB/CNS/DVOR/OFC & RF LINK /2022 dtd 04.05.2022.
2. E-Tender Id. 2022_AAI_114798
3. Your Bid Id. 425198 Dated 25/05/2022.

Sir,

With reference to the above, your offer as mentioned above (3) for "SITC of OFC, RF Link and Network Components for DVOR/DME Installation Project at AAI, Kalaburagi Airport" has been accepted by the competent authority for and on behalf of the Airports Authority of India as specified in Detailed Scope of Work (Annexure – I) for a total cost of Rs 32,22,287.00 (Rupees Thirty Two Lakhs Twenty Two Thousand Two Hundred and Eighty Seven only) Exclusive of GST as in price schedule.

Terms and Conditions:

1. The work shall be carried out at a Total Cost of Rs 32,22,287.00 (Rupees Thirty Two Lakhs Twenty Two Thousand Two Hundred and Eighty Seven only) Exclusive of GST as per the Terms and Conditions mentioned in the Tender document and as per your Price Bid.
2. The items should be supplied as per the model specified in the Technical bid.
3. The work shall be carried out as per the Tender conditions. All Terms and Conditions in Tender Ref No: AAI/VOGB/CNS/DVOR/ OFC & RF LINK /2022 dtd 04.05.2022 is a part of this order.
4. The **GST Invoice/Bills** with HSN/SAC code should be addressed in the name of **The Airport Director, Airports Authority of India, Kalaburagi Airport, Kalaburagi. GST: 29AAACA6412D2Z3**. The bill has to be uploaded in GST portal and confirmation to be submitted to the office, lest the GST part of payment will not be released.
5. The delivery of items and SITC works to be completed within 60 days from the receipt of work order.





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6. The items should be supplied as per the terms and condition and no part supplies will be accepted. If any item found to be defective, the contractor has to replace the same and no payment will be made from the office for such replacement.
7. The Airport Director has the right to accept or reject the supply order either in full or part thereof, without assigning any reason.
8. AAI reserves the right to slightly modify the quantity of items/ quality of work during installation up to 30% of any or all items.
9. Terms of Payment
No advance payment shall be made by Airports Authority of India for this work.
 - 100% Payment for DVOR support works, shall be made in full after successful completion of the work, on production of original GST invoice in triplicate, along with satisfactory certification from the CNS-In-Charge, Airports Authority of India, Kalaburagi Airport and Bank Account details as per the Annexure-II.
 - Mode of Payment: ECS/NEFT/RTGS.Payment will be made only for the actual work carried out. For this purpose, the unit rate quoted in Price Bid will be treated as the base for calculation.
The AAI reserves the right to release/ hold the partial payment depending on the completed or uncompleted activities.
10. Liquidated Damages (L.D.): If the Contractor fails to complete the work within time fixed under the contract and the completion of the contract is delayed, liquidated damages (L.D.) shall be levied @ 0.5% of the full value of uncompleted portion of work per week or part thereof, subject to a maximum value equal to the value of the Security deposit.
11. All input tax credit (ITC) on GST should be passed on to AAI by the contractor. In case of non-compliance of GST provisions and blockage of any input credit, contractor shall be responsible to indemnify Airports Authority of India.
12. A duplicate copy of this award letter is enclosed, which may be returned duly signed in each page, to this office as a token of your acceptance within 07 days of issue of the order.
13. Consignee Address: The SITC of OFC, RF link and network components as per the Tender should be provided at the below mentioned address.

DVOR/DME site / ATS complex
O/o Airports Authority of India,
Kalaburagi Airport,
Kalaburagi
Karnataka - 585102


(S. GNANESWARA RAO)
विमानपत्तन निदेशक / Airport Director
भारतीय विमानपत्तन प्राधिकरण / Airports Authority of India
कलबुर्गी हवाई अड्डा / Kalaburagi Airport
कलबुर्गी / Kalaburagi



Annexure - I

Name of work: "SITC of OFC, RF Link and Network Components for DVOR/DME Installation Project at AAI, Kalaburagi Airport."

DETAILED SCOPE OF WORK

SCHEDULE – A

SL.NO	DESCRIPTION OF ITEM	Quantity
1	24 Port L2 Managed Gigabit Switch with 4 SFP combo ports.	03
a)	<u>Architecture & Port Density:</u> Switch should offer Wire-Speed Non-Blocking Switching & Routing Performance at Layer 2 & Layer 3 The Access Switch should have Twenty-Four (24) 1GbE RJ45 ports and should have Four 1GbE/10GbE SFP+ Slots (1G should be ready to use from day 1, license upgradeable to 10G in future) Access Switch should support Stacking up to 8 Switches with more than 40 Gbps stacking bandwidth per Switch.	
b)	<u>Performance</u> Switching Bandwidth: Should provide non-Blocking switch fabric capacity of 128 Gbps or more. Forwarding Capacity: Should provide wire-speed packet forwarding of 95 Mpps or more.	
c)	<u>Layer 2 features</u> Should support 1K VLANs with 4K VLAN IDs Should support 10K MAC addresses or more. Shall support IP multicast snooping with support for IGMP v1, v2, v3 and MLD v1 & v2. Should support MRP ring protocol	

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d)	<u>Layer 3 features</u> Should support minimum 1K IPv4 routes or more Should support Basic IPv4 and IPv6 Static Routing, ECMP, Host Routes, Virtual Interfaces, Routed Interfaces, Route Only and Routing between directly connected subnets from day 1. Should have an optional upgrade path, preferably software licensed based, to support the following Dynamic IPv4 & IPv6 Routing protocols and Multicast Routing Protocols. Dynamic IPv4 and IPv6 Routing protocols like RIP v1&v2, RIPng, OSPFv2, OSPFv3, VRRPv2 & VRRPv3. PIM-SSM, PIM Sparse, PIM Dense, PIM Anycast RP, and PIM passive IPv4 multicast routing	
e)	<u>Security</u> Switch should support RADIUS, TACACS/TACACS+ and username/password for Authentication, Authorization and Accounting (AAA) with Local User Accounts and Local User Passwords. Should support secure communications to the management interface and system through SSL, Secure Shell (SSHv2), Secure Copy and SNMPv3 Should support IP Source Guard, DHCP snooping, DHCPv4, DHCPv6 and Dynamic ARP Inspection. Should support IPv4 and IPv6 ACLs with up to 500 rules per ACL and a minimum of 6K rules per system (Standalone Switch or Stack). Should support Byte and packet based broadcast, multicast, and unknown-unicast limits with suppression port dampening. Should support IPv6 Router Advertisement (RA) Guard. Should support Flexible Authentication with 802.1x Authentication and MAC Authentication.	
f)	<u>Manageability</u> Should support manageability using Network Management Software with Web based Graphical User Interface (GUI). Integrated Standard based Command Line Interface (CLI), Telnet, TFTP, HTTP access to switch management/monitoring Should support Net Flow or sFlow or equivalent.	
g)	<u>Physical Attributes:</u> Mounting Option : 19" Universal rack mount ears.	
h)	<u>Mandatory Compliance :</u> All categories of Switches, Transceivers & Switch OS should be from same OEM.	
i)	<u>Warranty</u> Switch should be quoted with TAC Support and onsite Warranty for 3 years or OEM warranty with NBD Hardware Replacement.	
j)	<u>Product brochure</u>	

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	Vendor should provide printed technical catalogs/brochures for the quoted model containing technical specifications, features.	
k)	Temperature Operating Temperatures: 0°C to 45°C Storage Temperatures: -40°C to 70°C	
l)	Humidity Operating relative humidity: 5% to 95% at 45°C, non-condensing, non-operating relative humidity: 0% to 95% at 70°C, non-condensing	
m)	Make: RUCKUS, CISCO, NETGEAR, HP	
2	SFP Module: 1G SFP Bi-Directional Module pair LC Connector, SM	06
	1G Base LR (SM) Transceiver, Distance Support: Min 10Km Form Factor: SFP, Duplex LC Connector, Hot Pluggable MSA Compliant, RoHS, CE, FCC, UL, VCCI Power dissipation <1W Industrial temperature range: -40°C to 85°C Single 3.3V power supply Uncooled DFB Receiver limiting electrical Interface Single LC connector Built-in digital diagnostic functions	
3	Single Mode 12 core Armoured Optic Fibre cable	8000 M #
	12-core, Single Mode, Corrugated steel tape Armored, Loose-tube, Water Swellable Tape, with 2 FRP Rods, Outdoor fiber cable fully conforming to ITU-T G.652.D Construction details: Number of Cores: 12 Number of loose tubes: 1 Loose tube Inner Diameter: 1.7 ± 0.1 mm Loose tube Outer Diameter: 2.5 ± 0.1 mm Peripheral Strength member (2 FRP Rods): 1.0 ± 0.05 mm Moisture Barrier: Water Swellable Tape Armour: 0.150 mm ECCS Tape Outer Sheath: 1.8 mm (Nominal) HDPE - Black Overall Cable diameter: 8.5 ± 0.5 mm Cable Mechanical Characteristics:	



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	Tensile Strength: 1000 N Crush Resistance: 2000 N Impact Strength: 10Nm Minimum bend radius: 20 x D, D= Diameter of cable	
	Temperature Performance: Installation: - 20 °C to + 70 °C Operation: - 20 °C to + 70 °C Storage: - 20 °C to + 70 °C	
	Optical Fiber Characteristics: Attenuation: at 1310 nm $\leq$ 0.36 dB/km; at 1550 nm $\leq$ 0.23 dB/km Chromatic Dispersion: 1285 - 1330 nm $\leq$ 3.5 ps/nm.km Minimum 1550 nm $\leq$ 18 ps/nm.km Zero Dispersion Wavelength: 1300 - 1324 nm Zero Dispersion Slope: $\leq$ 0.092 ps/nm².km Polarization Mode Dispersion: $\leq$ 0.20 ps/$\sqrt$km Cable Cut-off Wavelength: $\leq$ 1260 nm Mode Field Diameter: at 1310 nm $9.2 \pm 0.4 \mu\text{m}$ Mode field Concentricity Error: $\leq 0.8 \mu\text{m}$ Cladding Diameter: $125 \pm 1 \mu\text{m}$ Cladding Non-circularity: $\leq 1 \%$ Coating Diameter: $245 \pm 10 \mu\text{m}$ Make: AMP, Finolex, Sterlite, BELDEN, Molex, Tyco	
04	24 Port LIU with splice tray and SC adapter panel, Fully loaded Sliding Fiber Management System 1U, 24 Core Fully loaded assemblies with Adapter plates and Splice tray and Splice accessories kit. Must conform to ISO/IEC 11801 operating standard. Should be robust 1U sliding patch panel designed to accept up to 2 removable faceplates with Plunger Grommet latching. Should be able accept LC Duplex, SC Simplex. Should allow easy access during installation or re-work with no disturbance of the existing cable or fibers. Splice tray colour should be blue, with transparent snap fit cover. Splice tray should have stacking option with removable hinge. Splice tray should have hinged splice rest position for easy fiber management. Should have Upto 4 standard cable entry points for, loose tube, tight buffer,	02

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	and steel tape armoured cable. Fiber management system, should come fully loaded with fiber pigtails of 1.5m length, Splice tray and hardware kit. Fits in standard 19", should have Removable faceplate with plunger and grommet latching. Should have Built-in front cable management with Panel numbers and rack number identification port labeling. Should have High quality finish, with no sharp edges.	
	Height: 1U (44.4mm) Width: 483mm Depth: 290mm Material: Cold-rolled steel Material Thickness: 1.2mm Material Coating: Electrostatic powder coating Colour: Black RAL 9004 Operating Temperature: -40°C to +60°C Designed in Accordance With: TIA/EIA 568.C, ISO/IEC 11801, EN50173, IEC60304, IEC61754	
	SC Pigtail SM 9/125 micron	
	SC-Style Pigtails 9/125, SC LSZH, Semi Tight pre terminated compatible with SC snap in adapter plates. Spliceable pigtail assembly 250µm coated fiber in protective 900µm tubing. Compatible with fusion or mechanical splices. Cable length shall be minimum of 1.5 Meters Operating temperature -40° to +85°C. SM Connectors 220 Cycles, Blue. Ferrules shall be pre-radiused Ceramic . Attenuation not more than 0.75Db PER MATED PAIR. Shall be single mode OS2.	48
05	SC-LC OFC Patch Cord, Duplex 3M, SM	
	The patch cords should be terminated with zirconia ferrule connectors, manufactured with precision factory mounting and polishing techniques which helps assure high transmission quality.	10#





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a	FEATURES / BENEFITS Should conform to IEC, EIA-TIA or Telcordia performance requirements. Should be available in different fiber & connector types LC/PC, SC/PC, LC/APC, SC/APC. Must be available in standard and custom lengths. Should be REACH & SvHC compliant. Materials should be in compliant to RoHS2.	
b	CHARACTERISTICS Cable Material: LSZH Strength Member: Aramid Crush: 1000 N Operating Temperature: -20 °C to +60 °C Jacket Diameter: 2.0mm (zipcord) Secondary Buffer Diameter (2.0 mm): 900 ± 50 µm Minimum Bending Radius: 10D (installed) 20D (loaded) µm	
c	MECHANICAL PROPERTIES (in Conformance to IEC 61300-2-x) Mechanical endurance: 500 mating Vibration: 10-55 Hz, 0.75 amplitude Cable retention: Magnitude 50 N Cable torsion: 1.5kg-2.5 kg for 2mm-3mm cable diameter	
06	HDPE Pipe 2 inches	8000 M
	2 inches HDPE Pipe with related Accessories - Screws, Fillers, Connectors, Corners etc. Thickness: 2-5 mm The quoted product should be ISI certified. Pre-lubricated HDPE (High Density Polyethylene) pipes. Pressure Rating/ PN Class: 6 Material Grade: PE 63, PE 80, PE 100 Pressure: PN 2.5 TO 20 Section Shape: Round Color: Black Size/Diameter: 2-inch OD Packaging Type: In rolls	#
07	OFC Joint Enclosure 12 Core	02 #
	Type: Outdoor weather proof Features: FOSC tray Accessories for 12F OFC Make: RPG / 3 M or any DOT approved brand	
08	OFC Route marker for Cables Laid underground	250#

RM



	16 SWG GI sheet Route Markers shall be erected in the shape of a flag of size 10 inch x 6 inch marked 'OFC-NAVAIDS'. The flag will be on a 3 feet iron rod out of which 1.5 feet will be embedded in the ground. Such markers will be laid throughout the cable route at an interval of about 30 m and at any turning in path of cable.	
09	GI Saddle and Accessories	150 #
	Corrosion-Resistant Galvanized Iron Saddle and other accessories suitable for Fixing of 2 inch HDPE on wall.	
10	Manhole with Cast Iron Cover	12 #
	Rectangular Laterite/brick plastered Masonry of 1x1x1M Internal dimension cast iron cover of appropriate size	
11.a	OFC cable Laying - Hard Soils/ under road/ concrete surface	8000M #
	Trenching to a depth of 1M in Hard soil / under roads or concrete surface and laying HDPE Pipe and OFC cable through the pipe using necessary consumables, PVC couplings and back filing the trench. Roads and concrete cut areas shall be re-surfaced with concrete.	
b	Laying OFC cable through open trench and wall	
	Laying OFC cable through HDPE pipe in available Pipes, Open trenches / trenches covered with slabs and walls using required clamps and fixtures	
12	Installation, Configuration, Testing and Commissioning work	1 Job
	Installation of LIU and Network Switches and its configuration Standard Termination of 12 F OFC in LIU, fusion splicing of pig tails with Required fixtures, consumables. Splice loss should be less than 0.3 Db. OTDR Testing for the entire OFC cable network and report generation in PDF FORMAT	
13	19" 15U Wall Mount Rack + Power Distribution Unit + 1U Tray + Hardware accessories.	2
14	4 PORT FXS/FXO POTS Telephone over IP/Ethernet/LAN	1 Set
15	RS232 serial to IP convertor and serial cables	15
	RS 232 to IP – fast Ethernet converter No of port – ONE Asynchronous Interface: RS 232 Serial and TTL /CMOS (Asynchronous) Data Rates: up to 921.6 kbps, Characters: 7 or 8 data bits	

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	Parity: odd, even, none, Stop Bits: 1 or 2 Control Signals: RTS, CTS, DTR, DCD Flow Control: XON/XOFF, RTS/CTS Serial port connector - DB9 Should support Point to point MASTER/SLAVE configuration Network interface: Ethernet 10Base-T or 100Base-TX (Auto-Sensing), Connector: RJ-45 Protocols: TCP/IP, UDP/IP, ARP, ICMP, SNMP, TFTP, Telnet, DHCP, BOOTP, HTTP, and Auto IP 10Base-T connection & 100Base-TX connection. Management: SNMP, Telnet, serial, internal web server, and Microsoft Windows based utility for configuration Operating environment: -20° to 70°C Serial Cables: 1. DB9 RS232 9 pin Serial cable. Both side female – 5 Metre length --- Qty 04. Make: SUPERLINK or equivalent 2. DB9 RS232 9 pin Serial cable. Both side female – 1 Metre length --- Qty 04 Make: SUPERLINK or equivalent	
16	Surge Protector for 1. RS232 ports 2. LAN ports	10 08
17	Laying of one 20 pair RC cable and Two CAT 6 cables from equipment room to ATC Tower	50 M
18	Point to Point RF Link (LOS distance is 1.25 kms)	02 Sets
	RF Link- High-Radio System should operate in India WPC free licensed Band 5.825GHz - 5.875GHz in accordance with GSR 38 (E) dated 19th Jan 2007 for outdoor deployment. Performance Wireless Bridge - AC Protocol Support, Long-Range Point-to-Point (PtP) Link Mode, Selectable Channel Width, PtP: 10/20/30/40/50/60/80 MHz, PtMP: 10/20/30/40 MHz, Automatic Channel Selection, Transmit Power Control: Automatic/Manual, Automatic Distance Selection (ACK Timing), Strongest WPA2 Security	
19	Warranty for SITC Work.	
	Minimum 3 years from the date of Site Acceptance Test (SAT)	



(*) - The quantity of works mentioned above is approximate and the actual amount paid will be as per actuals.

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Annexure - II

PROFORMA OF LETTER FOR E-PAYMENT

To,

The Airport Director
Airports Authority of India
Kalaburagi Airport, Kalaburagi,
Karnataka – 585102
Subject: Request for E-Payment.

Sir,

Following particulars are given for effecting E-payment in respect of our claim / Bill.

S. No.	Particulars Details	Remarks
1	Name of the Party	
2	Office Address	
3	Type of Bidder's Company	
	(a) Sole Proprietor	
	(b) Partnership	
	(c) Private Ltd. Company	
	(d) Public Ltd. Company	
4	Name of Bank in which Party maintains A/c	
5	Bank Branch Code	
6	Bank Account No.	
7	IFSC Code	
8	PAN No.	
9	GST Registration Details.	
10	Vendor Classification for GST	
11	MICR Code	
12	NEFT Code	

We also enclose herewith a duly cancelled cheque of our bank account.

Thanking you,

Yours faithfully

Signature of authorized signatory
With seal

Note: Any erroneous information may lead to harmful transaction for which neither AAI or the Bank will be liable/ responsible.



Tender Inviting Authority: CNS In Charge, O/o Airport Director, AAI, Kalaburagi Airport

Name of Work: SITC of OFC, RF link and network components for DVOR/DME installation project at Kalaburagi Airport

Contract No: AAI/VOGB/CNS/ DVOR/ OFC & RF LINK /2022

Name of the Bidder/ Bidding Firm / Company : M/s. DATA LINKS, Chennai

PRICE SCHEDULE

(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)

NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #
SL No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT Without Taxes in Rs. P	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
1	24 Port L2 Managed Gigabit Switch with 4 SFP combo ports: Specifications of switch viz., Architecture & Port Density, Performance, Layer 2 features, Layer 3 features, Security, Manageability, Physical Attributes, Mandatory Compliance, Warranty, Product brochure Temperature, Humidity, Make, etc., as mentioned in SCHEDULE-A of NIT.	3.000	Nos	110000.00	330000.00	INR Three Lakh Thirty Thousand Only
2	SFP Module: 1G SFP Bi-Directional Module pair LC Connector, SM: Specifications of SFP module as mentioned in SCHEDULE-A of NIT.	6.000	Nos	7250.00	43500.00	INR Forty Three Thousand Five Hundred Only
3	Single Mode 12 core Armoured Optic Fibre cable: Specifications of Optic Fibre viz., no. of cores, Construction details, Cable Mechanical Characteristics, Temperature Performance, Optical Fiber Characteristics, etc., as mentioned in SCHEDULE-A of NIT.	8000.000	Mtrs	45.00	360000.00	INR Three Lakh Sixty Thousand Only
4	24 Port LIU with pigtail					
4.1	a) 24 Port LIU with splice tray and SC adapter panel, Fully loaded: Specifications as mentioned in SCHEDULE-A of NIT.	2.000	Nos	6875.00	13750.00	INR Thirteen Thousand Seven Hundred & Fifty Only
4.2	b) SC Pigtail SM 9/125 micron: Specifications as mentioned in SCHEDULE-A of NIT.	48.000	Nos	175.00	8400.00	INR Eight Thousand Four Hundred Only
5	SC-LC OFC Patch Cord, Duplex 3M, SM: Specifications viz. FEATURE, CHARACTERISTICS, MECHANICAL PROPERTIES etc., as mentioned in SCHEDULE-A of NIT.	10.000	Nos	1187.50	11875.00	INR Eleven Thousand Eight Hundred & Seventy Five Only
6	HDPE Pipe 2 inches : Specifications as mentioned in SCHEDULE-A of NIT.	8000.000	Mtrs	62.50	500000.00	INR Five Lakh Only
7	OFC Joint Enclosure 12 Core: Specifications as mentioned in SCHEDULE-A of NIT.	2.000	Nos	1500.00	3000.00	INR Three Thousand Only
8	OFC Route marker for Cables Laid underground: Specifications as mentioned in SCHEDULE-A of NIT.	250.000	Nos	230.00	57500.00	INR Fifty Seven Thousand Five Hundred Only
9	GI Saddle and Accessories: Specifications as mentioned in SCHEDULE-A of NIT.	150.000	Nos	15.00	2250.00	INR Two Thousand Two Hundred & Fifty Only
10	Manhole with Cast Iron Cover: Specifications as mentioned in SCHEDULE-A of NIT.	12.000	Nos	8500.00	102000.00	INR One Lakh Two Thousand Only
11	OFC cable Laying - Hard Soils/ under road/ concrete surface/ through open trench and wall: Specifications as mentioned in SCHEDULE-A of NIT.	8000.000	Mtrs	175.00	1400000.00	INR Fourteen Lakh Only
12	Installation, Configuration, Testing and Commissioning work: Installation of LIU and Network Switches and its configuration Standard Termination of 12 F OFC in LIU, fusion splicing of pig tails with Required fixtures, consumables. Splice loss should be less than 0.3 Db. OTDR Testing for the entire OFC cable network and report generation in PDF FORMAT	1.000	Job	25000.00	25000.00	INR Twenty Five Thousand Only
13	19" 15U Wall Mount Rack + Power Distribution Unit + 1U Tray + Hardware accessories.	2.000	Nos	8500.00	17000.00	INR Seventeen Thousand Only
14	4 PORT FXS/FXO POTS Telephone over IP/Ethernet/LAN	1.000	Set	49162.00	49162.00	INR Forty Nine Thousand One Hundred & Sixty Two Only
15	RS232 serial to IP convertor and Serial Cables:					
15.1	RS232 serial to IP convertor	15.000	Nos	6780.00	101700.00	INR One Lakh One Thousand Seven Hundred Only
15.2	Serial Cables: 1. DB9 RS232 9 pin Serial cable. Both side female – 5 Metre length — Qty 04. Make: SUPERLINK or equivalent 2. DB9 RS232 9 pin Serial cable. Both side female – 1 Metre length — Qty 04 Make: SUPERLINK or equivalent	8.000	Nos	2100.00	16800.00	INR Sixteen Thousand Eight Hundred Only
16	Surge Protectors					
16.1	Surge Protector for RS232 ports	10.000	Nos	2000.00	20000.00	INR Twenty Thousand Only
16.2	Surge Protector for LAN ports	8.000	Nos	5100.00	40800.00	INR Forty Thousand Eight Hundred Only
17	Laying of one 20 pair RC cable and Two CAT 6 cables from equipment room to ATC Tower	50.000	Mtrs	125.00	6250.00	INR Six Thousand Two Hundred & Fifty Only
18	Point to Point RF Link (LOS distance is 1.25 kms) (Two sets for redundancy): Specifications as mentioned in SCHEDULE-A of NIT.	2.000	Set	48750.00	97500.00	INR Ninety Seven Thousand Five Hundred Only
19	Warranty for SITC Work: Minimum 3 years from the date of Site Acceptance Test (SAT)	1.000	Job	15800.00	15800.00	INR Fifteen Thousand Eight Hundred Only
Total in Figures					3222287.00	INR Thirty Two Lakh Twenty Two Thousand Two Hundred & Eighty Seven Only
Quoted Rate in Words					INR Thirty Two Lakh Twenty Two Thousand Two Hundred & Eighty Seven Only	

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