



R. V. COLLEGE OF ENGINEERING

(Autonomous Institution affiliated to Visvesvaraya Technological University, Belgaum)
Approved by All India Council for Technical Education, New Delhi.

Ref No RVCE / 2911 / 2016 / 2017

Date 11-01-17

To,
M/s. Cito Infotech Pvt. Ltd.
#11/1, 3rd cross, Nandidurga Road
Bangalore -560046
M. No.: 9449619372
Tel.Ph.:080-42048585|Ph.080-42048584|
F.080-42048586
Email: arjun@citoinfotech.com
www.citoinfotech.com

Dear Sir,

Subject: Computer Networking and Wireless Infrastructure at various Departments, replacement of central chassis

Reference: Your Final Proposal dated 04.01.2017

With Reference to the above, you are requested to take up implementation of Computer Network, Wireless infrastructure at various Departments including replacement of central chassis in the College Campus. You are expected to complete the work by 25th February 2017. The Details are as given below:

Description		Amount in Rs.
Networking at Various Departments (Details enclosed in Annexure I)	Materials	20,70,667.00
	Labour	2,80,865.00
Sub Total (A)		23,51,532.00
Wireless Infrastructure and Chassis replacement (Details enclosed in Annexure II)	Materials	32,78,183.00
	Labour	28,1448.00
Sub Total (B)		35,59,631.00
Total Amount (A + B)in Rs		<u>59,11,163.00</u>

Amount Inclusive of all taxes

General Terms and conditions

1. Delivery of all materials: FOR RVCE Premises, Mysore Road, Bangalore-560 059.
2. Demonstration /Installation: Acceptance of items is subject to Implementation /Installation, Configuration and satisfactory working.
3. Transit /Freight: All charges relating to Freight, Insurance, loading and unloading, packing etc., shall be at your cost

R.V. Vidyaniketan Post, Mysore Road, Bangalore - 560 059. INDIA.
Phone: +91-080-67178000/01/02 Fax: +91-080-28600337 e-mail: principal@rvce.edu.in
Website: www.rvce.edu.in;www.rvinstitutions.com



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20 - 20

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4. Warranty: All warranty shall be certified and provided by respective OEMs and commence from the date of completion (details enclosed)
5. Support during warranty: Response time 4 Hrs, Resolution time : 24 Hrs
6. Payment terms: 50% against delivery of materials, remaining 50% will be made only after satisfactory installation and interfacing with existing network.

Scope of work

1. M/s.CITO Infotech are required to supply and execute the whole project in consultation with RVCE Authorities.
2. All the supplies will be in the name of Principal, R.V.College of Engineering.
3. M/s. CITO Infotech are required to give an acceptance letter and a detailed schedule of implementation of the project along with and ensure that the OEM / manufacturers are involved in the project.
4. M/s. CITO Infotech have to do site survey & submit the implementation diagram before starting the project. You are required to study the existing setup and give your recommendation for better network security and performance.
5. A Review meeting to be conducted every fortnight regarding the progress of the Project.
6. M/s. CITO Infotech should consult the IT team of R V C E during implementation and configuration.
7. M/s. CITO Infotech shall use the existing infrastructure as far as possible during implementation.
8. M/s. CITO Infotech should carry out the work, get the inspection done for the quantities used and show the system up & working.
9. Carryout the civil and other works like laying of cable, digging, termination etc.,related to Project
10. Dressing all racks using appropriate hardware like raceways, cable manager, cable duct etc,. & appropriate labeling.
11. Installation and configuration of all active devices like switches, Access points etc,. Also, the new setup to be integrated with the existing environment

R.V. Vidyaniketan Post, Mysore Road, Bangalore - 560 059. INDIA.

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Website: www.rvce.edu.in;www.rvinstitutions.com

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12. Migration of configuration and policies from old Network central chassis to the new setup.
13. Fine tuning of configuration and policies wherever required to be carried out
14. Billing/payment should be calculated at actual.
15. Any firmware upgradations extended by OEMs should be on free of cost.
16. Labelling and markers to be provided.
17. M/s. CITO Infotech needs to arrange exhaustive training .by OEM for a group of staff of R.V.College of Engineering at the end of the project.
18. Testing to be carried out at the end of the project as per EIA/TIA norms and certified by OEM.
19. Documentation of the work carried out with necessary diagrams to be submitted after completion
20. If you face any problems/difficulties during the execution of the project, you should bring it to the notice of RVCE Team. **No assumptions and presumptions are entertained**

Kindly send us the Acceptance within seven days from the date of the PO

Thanking you,

Yours Sincerely

Subramanya

PRINCIPAL
PRINCIPAL

R V COLLEGE OF ENGINEERING
BANGALORE - 560 059

Enclosure: Detailed Bill of Materials

**R.V.COLLEGE OF ENGINEERING,
BANGALORE 560059**

List of items for Wireless Infrastructure and Chassis replacement

A: Materials

Sl.no	Description	Qty (Approx)	UOM	Make /Model	unit rate in Rs.	Taxes in percentage	Rate after tax	Amount
1	Replacement of Central Chassis 24 SFP+ ports with one expansion module and SI image (with 3 power chords), UK +EU+US type	2	nos	Dlink DXS3600 -32 S INSI	378060	5.5	398853	797707
	Optional activation code to upgarde DXS-3600-325 from SI to EI	2	nos	Dlink /DSX-3600-32 S- SC-LIC	53800	20.5	64829	129658
	300W Redundant hot swappable modular AC PSU with front to back air flow	2	nos	Dlink /DSX-PWR 300 AC	22650	5.5	23896	47792
	QSFP+ stacking /uplink module and cable	2	nos	Dlink /DXS-3600 -EM-4QXS, DEM CB 100QXS	110575	5.5	116657	233313
2	24 Port POE switch with 10 G uplinks	10	nos	Dlink DGS1510-28P	30850	5.5	32547	325468
3	<u>Wireless solution: 80211AC</u> Wireless Accesspoint with mounting kit,	50	LS	Ruijie AP with mouting kit AP 520-I - 50 nos POE Injectors - 50 nos	17585	5.5	18552	927609
	Wireless controller	1	no	Ruijie Controller RG-WS6008 -1no	103500	5.5	109193	109193
	Wireless controller License	1	no	Ruijie /LIC-WS-32-WS series wireless controller upgrade license for 32 APs	75500	20.5	90978	90978
	POE Adapters	50	nos	Dlink	1600	5.5	1688	84400
4	9 u wall mount Network rack with power strip, cable manager and other hardware	1	nos	Dlink / NWR - 9U-5550-GR	3980	5.5	4199	4199
5	CAT 6 UTP Cable	10	boxes	Dlink/NCB-C6URR-305	4690	5.5	4948	49480
6	Single Face Plate with back Box,Cat 6 IO	50	nos	Dlink/NKJ-C6BLU1B21 & NFP-0WHI11	172	5.5	181	9073
7	1 Meter Patch Cord (CAT6)	50	nos	Dlink/NCB-C6UGRYR1-1	97	5.5	102	5117
8	2 Meters Patch Cord (CAT6)	50	nos	Dlink/NCB-C6UGRYR1-2	108	5.5	114	5697
9	CAT 6 fully Loaded Jack Panel	1	nos	Dlink/NPP-C61BLK241	3290	5.5	3471	3471
10	24 port fully loaded Rack mount LIU	1	nos	Dlink /NLU-FXXUXXR-24 & NPL -FXDSC	3042	14.5	3483	3483
11	12 port fully loaded Rack mount LIU	4	nos	Dlink/NLU-FXXXUXXR-12 & NPL - FXDSC - 03	2869	14.5	3285	13140
12	12 core OFC single mode armoured cable	1200	mtrs	Dlink/NCB-FS09D-AUHD-12	34	5.5	36	43044
13	Fiber pigtails single mode	96	nos	Dlink/NCB-FS09S-SC1	127	5.5	134	12863
14	Fiber couplers single mode	96	nos	Dlink/NAD-FSDSCSC	157	5.5	166	15901
15	Fiber patchchords sc to lc singlemode	12	nos	Dlink/NCB-FS09D-LCSC-2	810	5.5	855	10255
16	Fiber modules singlemode (10 Gig) SFPs	6	nos	Dlink/DEM432 XT	14750	5.5	15561	93368
17	2" HDPE Pipe	1150	mtrs	ISI Standard	94	14.5	108	123775
18	GI Pipe	45	mtrs	ISI Standard	435	14.5	498	22413
19	1" casing	3000	mtrs	ISI Standard	34	14.5	39	116790
Sub Total (A)								3278182

**R.V.COLLEGE OF ENGINEERING,
BANGALORE 560059**

B: Labour

Sl.no	Description	Qty (Approx)	UOM	Make/Model	unit rate in Rs.	Taxes in percentage	Rate after tax	Amount
1	Rack Installation, labelling and Dressing	1	No.s		485	15.0	558	558
2	Laying UTP Cable	10	Box		1460	15.0	1702	17020
3	Cat 6 IO termination and fixing	50	No.s		32	15.0	37	1840
4	Jack Panel termination	1	No.s		390	15.0	449	449
5	laying of 1" Casing/ Conduit	3000	mtrs		6	15.0	7	20700
6	Laying & Digging charges for HDPE pipe	1150	mtrs		147	15.0	169	194408
7	Laying of Gi pipe	45	mtrs		28	15.0	32	1449
8	Laying for OFC cable	1200	mtrs		11	15.0	13	15180
9	Fiber splicing charges	96	nos		187	15.0	215	20645
10	Installation, configuration, labelling, Testing and documentation	1	LS		8000	15.0	9200	9200
Subtotal (B) in Rs.								281448
Grand Total (A +B) in Rs.								3559630
	warranty			3 Years (care pack) on Wireless Infrastructure (APs, controller, POE adapters) 1 Year on Rack 10 years for passive Limited Life time warranty on active components (support till 5 years after declaration of EOF)				

S. Kanayyaiah
11/1/17

List of items for Networking at Various Departments

A: Materials

Sl.no	Description	UOM	MCA	COE	EEE	EEE	CSE	ISE	Mech (PG)	Mech	Aerospace	Qty (Approx)	Make/Model	unit rate in Rs.	Taxes in percent	Rate after tax	Amount including tax
1	9 u wall mount Network rack with power strip, cable manager and other hardware	Nos	0	0	0	0	0	1	0	0	0	1	Dlink	3980	14.5	4557	4557
2	16 u wall mount Network rack with power strip, cable manager and other hardware	Nos	0	0	0	0	0	0	1	1	1	3	Dlink	6650	14.5	7614	22843
3	32 u wall mount Network rack with power strip, cable manager and other hardware	Nos	1	1	0	0	0	0	0	0	0	2	Dlink	27850	14.5	31888	63777
4	CAT 6 UTP Cable	boxes	22	23	3	1	0	5	10	0	6	70	Dlink	4690	5.5	4948	346357
5	Single Face Plate with back Box, Cat 6 IO	nos	190	150	35	5	0	55	80	0	60	575	Dlink-NCB	172	5.5	181	104340
6	1 Meter Patch Cord (CAT6)	nos	190	150	35	5	0	55	80	0	60	575	NCB-C6UGRYR1-1	97	5.5	102	58843
7	2 Meters Patch Cord (CAT6)	nos	190	150	35	5	0	55	80	0	60	575	NCB-C6UGRYR1-2	108	5.5	114	65516
8	CAT 6 fully Loaded Jack Panel	nos	9	7	3	0	0	3	4	3	3	32	NPP-C61BLK241	3290	5.5	3471	111070
9	24 copper + 4 (10 gig) SFP Port, L2 fully managed stackable Switches with necessary stacking cables	nos	9	7	3	0	1	4	4	0	3	31	Dlink/DGS-1510-28X	26100	5.5	27536	853601
10	Industrial channel	mtrs	75	100	65	0	0	25	100	0	70	435	ISI Standard	435	14.5	498	216663
11	raceways	mtrs	250	25	20	0	0	15	50	0	20	380	ISI Standard	365	14.5	418	158812
12	1" casing	mtrs	50	250	25	250	0	75	100	0	100	850	ISI Standard	34	14.5	39	33091
13	1.5" casing	mtrs	50	50	25	0	0	50	50	0	50	275	ISI Standard	50	14.5	57	15744
14	2" casing	mtrs	0	50	25	0	0	50	50	0	50	225	ISI Standard	60	14.5	69	15458
Sub Total (A)																	2070667

B: Labour

Sl.no	Description	UOM	MCA	COE	EEI	EEE	CSE	ISE	Mech (PG)	Mech	Aerospace	Qty (Approx)	unit rate in Rs.	Taxes in percent	Rate after tax	Amount including tax
1	Rack Installation, labelling and Dressing	No.s	1	1	2	0		1	1	3	1	10 ¹²	435	15	500	5003
2	Laying UTP Cable	Box	22	23	3	1		5	10	0	6	70 ²¹	1220	15	1403	98210
3	Cat 6 IO termination and fixing	No.s	190	150	35	5		55	80	0	60	575 ¹¹⁰	35	15	40	23144
4	Jack Panel termination	No.s	9	7	3	0		3	4	3	3	32 ¹	390	15	449	14352
5	laying of Industrial channel PVC 4" x 2"	mtrs	75	100	65	0		25	100	0	70	435	23	15	26	11506
6	laying Raceways PVC 4" x 2"	mtrs	250	25	20	0		25	50	0	20	390 ¹⁶⁵	23	15	26	10316
7	laying of 1" Casing/ Conduit	mtrs	50	250	25	250		75	100	0	100	850	6	15	7	5865
8	laying of 1.5" Casing/ Conduit	mtrs	50	50	25	0		50	50	0	50	275	6	15	7	1898
9	laying of 2" Casing/ Conduit	mtrs	0	50	25	0		50	50	0	50	225	6	15	7	1553
10	floor cutting	mtrs	250	20	0	0		10	100	0	20	400	132	15	152	60720
11	Configuration, labelling, Testing and documentation	LS										1	42000	15	48300	48300
Subtotal (B) in Rs.																
Grand Total (A. +B) in Rs.																
280865																
2351532																
1 Year on Rack 10 years for passive Limited Life time warranty on active components (support till 5 years after declaration of EOF)																

Note:

1. Passive componets and labour will be billed on actual quantity used
2. Either Industrial channel or Raceways will be used depending on the site conditions

Subramanyam
11.1.17

INVOICE

(Original)



CITO INFOTECH PVT LTD., 2016-17
 11/1, 3rd Cross, Nandi Durga Road
 Bangalore-560046
 PH: 080 - 42048584\5
 CIN: U72200KA2008PTC048235
 E-Mail : shakunthala@citoinfotech.com, shibu@citoinfotech.com

Invoice No.	e-Sugam No.	Dated
220		17-May-2017
Delivery Note		Mode/Terms of Payment
Supplier's Ref.		Other Reference(s)

Buyer
R V College of Engineering
 Mysore Road,
 Bangalore - 560 059

Buyer's Order No.	Dated
RVCE/2911/2016-2017	11-Jan-2017
Despatch Document No.	Dated
Despatched through	Destination
Terms of Delivery	

SI No.	Description of Goods	Quantity	Rate	per	Amount
1	Replacement of Central Chassis 24 SFP+ Ports with One Expansion Module & SI Image (with 3 Power Cords, UK + EU + US Type) Make /Model:DXS-3600-32S/INSI	2.00 No.	3,78,060.00	No.	7,56,120.00
2	Optional Activation Code to Upgrade DXS-3600-32S From SI to EI Make/Model:Dlink/DSX-3600-32 S-SC-LIC (Service : Maintenance Or Repair Service)	2.00 No.	53,800.00	No.	1,07,600.00
3	300W Redundant Hot-Swappable Modular AC PSU with Front-to-Back Airflow Make / Model:Dlink/ DXS-PWR300AC	2.00 No.	22,650.00	No.	45,300.00
4	QSFP+ Stacking/Uplink Module & Cable Make /Model:Dlink DXS-3600-EM-4QXS, DEM-CB100QXS	2.00 No.	1,10,575.00	No.	2,21,150.00
5	24 Port POE Switch with 10G Uplinks Dlink DGS1510-28P	10.00 No.	30,850.00	No.	3,08,500.00
6	Wireless Solution:80211AC Wireless Accesspoint with Mounting Kit Make /Model:Rujie AP With Mounting Kit AP 520-I-50 Nos	50.000 LS	17,585.00	LS	8,79,250.00
7	Wireless Controller Paid by Cheque No. <u>000916</u> Dt. <u>2/6/2017</u> Make /Model:Rujie Controller RG-WS6008-1 No	1.00 No.	1,03,500.00	No.	1,03,500.00
8	Wireless Controller License Make /Model:Rujie Lic-WS-32-WS Series Wireless Controller Upgrade License for 32 APS (Service : Maintenance Or Repair Service)	1.00 No.	75,500.00	No.	75,500.00
9	Fiber Modules Singlemode (10Gig) SFPs Make /Model:Dlink/DEM-432XT	6.00 No.	14,750.00	No.	88,500.00

continued ...

SUBJECT TO BANGALORE JURISDICTION

This is a Computer Generated Invoice

To, HOD ICE

After payment

to

5/6/2017

RVCE/ACC/185/17-18

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INVOICE(Page 2)



CITO INFOTECH PVT LTD.,2016-17
 11/1, 3rd Cross, Nandi Durga Road
 Bangalore-560046
 PH: 080 - 4204858415
 CIN: U72200KA2008PTC048235
 E-Mail : shakunthala@citoinfotech.com, shibu@citoinfotech.com

Buyer
R V College of Engineering
 Mysore Road,
 Bangalore - 560 059

Invoice No. 220	e-Sugam No.	Dated 17-May-2017
Delivery Note		Mode/Terms of Payment
Supplier's Ref.		Other Reference(s)
Buyer's Order No. RVCE/2911/2016-2017		Dated 11-Jan-2017
Despatch Document No.		Dated
Despatched through		Destination
Terms of Delivery		

SI No.	Description of Goods	Quantity	Rate	per	Amount
10	24 Copper + 4 (10gig) SFP Port L2 Fully Managed Stackable Switches with Dlink /DGS-1510-28X	31.00 No.	26,100.00	No.	8,09,100.00
			5.50 %		1,86,698.60
			14 %		25,634.00
					915.50
					915.50
					0.40
	Total				₹ 36,08,684.00

Out Put VAT @ 5.5%
Service Tax @ 14%(On Assessable Amount 1,83,100.00)
SWACHH BHARAT CESS @ 0.5%
KRISHI KALYAN CESS @ 0.5%
Rounding Off

Amount Chargeable (in words)
 Indian Rupees Thirty Six Lakh Eight Thousand Six
 Hundred Eighty Four Only

Paid by Cheque No. 000916 Dt. 21/6/2017

Company's VAT TIN : 29270839253
 Company's CST No. : 29270839253
 Company's Service Tax No. : AADCC5124BST001
 Company's PAN : AADCC5124B

Company's Bank Details
 Bank Name : CORPORATION BANK O D A/C
 A/c No. : 565101000015624
 Branch & IFS Code : R T NAGAR & CORP0000656
 for CITO INFOTECH PVT LTD.,2016-17

Declaration
 We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct.

Authorised Signatory

SUBJECT TO BANGALORE JURISDICTION

This is a Computer Generated Invoice

