

केवल नागपुर कोर्ट के अधिकार क्षेत्र में

Under Jurisdiction of Nagpur Court only



वेस्टर्न कोलफील्ड्स लिमिटेड
Western Coalfields Limited
 (मिनीरत्न कंपनी) (A Miniratna Company)
 (कोल इंडिया लि. की अनुषंगी कंपनी)
 (A Subsidiary of Coal India Limited)



सामग्री प्रबन्धन विभाग
Department of Material Management

CIN - U 10100MH1975GO1018626 FAX: 0712-2510284 www.westerncoal.nic.in

पंजी. का. : कोयला विहार, सिविल लाइंस, नागपुर (महाराष्ट्र) - 440001/Coal Estate, Civil Lines, Nagpur (MS) - 440001

SO. NO. 21000116219180

Dt: 04-12-2019

SUPPLY ORDER

To

M/s. INTELLICON PVT LTD
 B-20, GIDC Electronics Estate
 Sector- 25, Gandhinagar
 GUJARAT - 382024

Vendor Code: 608012

Vendor Category: Authorized Dealer

Email id: kamleshg@intellicon.in Ph no: 9327796336

GSTIN: 24AAACI4324C1Z9

Dear Sir,

Sub : **Formal Order for Supply, Installation & Commissioning of digital EPABX System**Ref : 1. Our tender enquiry no. WCL-hq-pur-kdp-e099-2018-19, opened on 22-03-2019
(tender id 2019_WCL_131663_1)

2. Your offer vide Bid id no : 392524 dt.16-032019 and clarifications / shortfall documents submitted on e-tendering portal

3. Your letter no: Nil dt. 16-06-2019; IPL:AHD:WCL:0719 dt. 20-07-2019 ;
IPL:AHD:WCL:0719 dt. 31-07-2019,

4. Your letter no: Nil dt. 13-09-2019 and Letter no: Nil dt. 28-11-2019

This has reference to above. We are pleased to place FORMAL ORDER on you for **Supply, Installation and Commissioning of EPABX System** as per the rates, technical specifications and terms and conditions stipulated below and general terms and conditions enclosed

NIT SI no	Subitem	Item Description	Qty	UOM	Unit Basic Price Rs	Total Value Rs.
1.00	1.00	A.1. 500 ports EPABX system should be based on Server & Gateway it should be in skin CPU based architecture as per NIT specification and equipped with the following: A.2. Supply of analog subscriber line card with CLIP name & number display for all ports. Each card having 16 / 24/ 30 ports. The cables and connectors with 10M length to be supplied - 256 ports A.3. Supply of CO ports - 16 ports A.4 E1 Card - 1 no. A.5 Supply of IP Extension - 5 nos A.6 Supply of IP Phones with IO box - 5 nos A.7 Supply of Digital telephones - 5 nos A.8 Supply of Desk top operator console - 02 nos A.9 Supply of Push button type telephone instruments with CLI facility - 256 A.10 Supply of GUI based maintenance & debugging software & PC based operating terminal as per specification - 01 no. A.11 Supply of 1 no of 3 KVA ONLINE UPS with 8 hours back up including MF batteries - 01 no. A.12 Supply of MDF with Krone connection and integrated protection modules for all ports along with tools like LAN tester, crimping tool for RJ 45/ RJ 11, Krone punch tool and digital Multimeter - For 500 ports Make and Model: Karel make ; Karel IPG 1000 Server Gateway base IPPBX. Detailed Technical Specification as per Annexure " C " Enclosed	3.00	set	938183.00	2814549.00

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NIT Sl no	Subitem	Item Description	Qty	UOM	Unit Basic Price Rs	Total Value Rs.
	2.00	Class 1 Earthing as per NIT	3.00	LS	55556.00	166668.00
	3.00	Installation, testing and commissioning charges of the above system & wiring charges from system to MDF.	3.00	LS	27778.00	83334.00
	4.00	COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT CHARGES for 1st year after completion of Guarantee / Warranty Period	3.00	LS	29750.00	89250.00
	5.00	COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT CHARGES for 2nd year after completion of Guarantee / Warranty Period	3.00	LS	29750.00	89250.00
	6.00	COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT CHARGES for 3rd year after completion of Guarantee / Warranty Period	3.00	LS	29750.00	89250.00
	7.00	COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT CHARGES for 4th year after completion of Guarantee / Warranty Period	3.00	LS	29750.00	89250.00
	8.00	COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT CHARGES for 5th year after completion of Guarantee / Warranty Period	3.00	LS	29750.00	89250.00

NIT Sl no	Subitem	Item Description	Qty	UOM	Unit Basic Price Rs	Total Value Rs.
	1.00	A.1. 500 ports EPABX system should be based on Server & Gateway it should be in skin CPU based architecture as per NIT specification and equipped with the following: A.2. Supply of analog subscriber line card with CLIP name & number display for all ports. Each card having 16 / 24 / 30 ports. The cables and connectors with 10 M length to be supplied - 300 ports A.3. Supply of CO ports - 16 ports A.4 E1 Card - 1 no. A.5 Supply of IP Extension - 15 nos A.6 Supply of IP Phones with IO box - 15 nos A.7 Supply of Digital telephones - 10 nos A.8 Supply of Desk top operator console - 02 nos A.9 Supply of Push button type telephone instruments with CLI facility - 300 A.10 Supply of GUI based maintenance & debugging software & PC based operating terminal as per specification - 01 no. A.11 Supply of 1 no of 3 KVA ONLINE UPS with 8 hours back up including MF batteries - 01 no. A.12 Supply of MDF with Krone connection and integrated protection modules for all ports along with tools like LAN tester, crimping tool for RJ 45 / RJ 11, Krone punch tool and digital Multimeter - For 500 ports Make and Model: Karel make ; Karel IPG 1000 Server Gateway base IPPBX. Detailed Technical Specification as per Annexure " C " Enclosed	1.00	set	1069508.00	1069508.00
2.00	2.00	Class 1 Earthing as per NIT	1.00	LS	55556.00	55556.00
	3.00	Installation, testing and commissioning charges of the above system & wiring charges from system to MDF.	1.00	LS	27778.00	27778.00
	4.00	COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT CHARGES for 1st year after completion of Guarantee / Warranty Period	1.00	LS	29750.00	29750.00
	5.00	COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT CHARGES for 2nd year after completion of Guarantee / Warranty Period	1.00	LS	29750.00	29750.00
	6.00	COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT CHARGES for 3rd year after completion of Guarantee / Warranty Period	1.00	LS	29750.00	29750.00
	7.00	COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT CHARGES for 4th year after completion of Guarantee / Warranty Period	1.00	LS	29750.00	29750.00
	8.00	COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT CHARGES for 5th year after completion of Guarantee / Warranty Period	1.00	LS	29750.00	29750.00

NA
NA

NA

			4106281.00
		Basic Cost of Equipments (3 sets of Items sl no: 1 and 1 set of Item slno: 2)	
		Installation, testing and commis-sioning charges & wiring charges from system to MDF. (3 sets of Items sl no: 1 and 1 set of Item slno: 2)	111112.00
		CAMC Charges for 5 years for all the 4 systems (3 sets of Items sl no: 1 and 1 set of Item slno: 2)	595000.00
		GST @ 18% of the Basic cost of Equipment	739130.58
		GST @ 18% of the Installation and Commissioning charges	20000.16
		GST @ 18% of the CAMC charges	107100.00
		Total Order Value	5678623.74

Total Order Value : Rs. 56,78,623.74

Total Order Value: Rupees Fifty six lakhs Seventy eight thousand Six hundred and twenty three and Seventy four paise only

OTHER TERMS & CONDITIONS:

- 1. Prices:** The prices are FIRM on F.O.R. destination basis inclusive of Packing & Forwarding charges, Freight & Insurance Charges upto destination .
- 2. Installation, Testing and Commissioning Charges:** Shall be paid extra as indicated above for the complete EPABX system including the wiring charges from System to MDF
- 3. Goods and Service Tax (GST):** GST shall be paid extra as applicable on the date of supply, on the Basic price(as applicable). The present rate of GST is @ 18% for all Items
Your shall submit the GST compliant Invoice as per the GST rules, indicating all the details as required as per the GST rules, including the HSN code, components of CGST / SGST / IGST(as applicable) etc, which shall enable WCL to avail the Input Tax Credit Set off as per the GST rules. The ITC set off against the GST shall be availed by the Paying Authority, as per the GST rules.
You shall upload the Tax Invoices/Debit Note/Credit Note in GST Portal, make payment of GST and file returns in time, as prescribed under GST Act and Rule to facilitate WCL to avail Input Tax Credit (ITC) as per eligibility under GST. In case WCL is unable to avail ITC or any liability arises to WCL due to failure on the part of supplier to comply the above provisions , the entire amount including Interest (If any) borne by WCL shall be recovered from you.
- 4. Delivery:** Supply, Installation, testing and commissioning shall be completed within 3 (Three) months from the date of issue of supply order. Delivery Period shall be reckoned from 7th day of the order date
- 5. Final Inspection:** Final inspection of the consignment shall be carried out at by the consignee on receipt of complete consignment as per order description.

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6. Consignee & Allocation:

SL NO.	Item description	Quantity	Allocation	NAME OF THE AREA	ADDRESS OF CONSIGNEE
1	True IP based exchange of server client architecture with UPS & MDF - 500 ports / 256 lines / 256 push button telephone instruments (Item NIT Sl no: 1)	1set	CGM office	Wani north	Depot Officer, Regional Stores, WCL Wani North Area , PO: UKNI, Tahsil: WANI Dist : Yavatmal (MS)Pin : 445304 GSTIN : 27AAACW1578L1ZW
2	True IP based exchange of server client architecture with UPS & MDF - 500 ports / 256 lines / 256 push button telephone instruments (Item NIT Sl no: 1)	1set	Nandgaon	Chandrapur	Depot Officer, Regional Stores, WCL, Chandrapur Area P.O.: DURGAPUR Distt: Chandrapur,(M.S) 442 403 GSTIN : 27AAACW1578L1ZW
3	True IP based exchange of server client architecture with UPS & MDF - 500 ports / 256 lines / 256 push button telephone instruments (Item NIT Sl no: 1)	1set	Area HQ	Patherkheda	Depot Officer, Regional Stores, WCL Pathakhera Area P.O:PathakheraColliery-460449, Distt.-Betul .(M.P) GSTIN : 23AAACW1578L1Z4
4	True IP based exchange of server client architecture with UPS & MDF - 500 ports / 300 lines / 300 push button telephone instruments (Item NIT Sl no: 2)	1set	CGM Office	Ballarpur	Depot Officer, Regional Stores, WCLBallarpur Area PO : Sasti Distt:-Chandrapur (M.S) Pin: - 442 706 GSTIN : 27AAACW1578L1ZW

- 7. Payment terms:** Payment for 80% of the Invoice value (landed value of the equipment / materials excluding installation and commissioning) and 100% taxes as applicable shall be made within 21 days from the date of receipt and acceptance of the equipment / materials at the Consignee stores and submission of bills whichever is later.

Payment for balance 20% of the Invoice value (landed value of the equipment / materials) and 100% installation & commissioning shall be made within 21 days after successful installation, testing and commissioning of the equipment as well as free training imparted to end users at the allocated locations on submission of satisfactory installation, commissioning and training certificate issued by GM(E&T) or his authorized representative.

Payment shall be made only on submission of confirmed security deposit & performance Bank Guarantee and acceptance of same by WCL.

- 8. Paying Authority:** General Manager (Fin), Western Coalfields Limited, Hqrs, Nagpur 440001

9. EFT Details :

Name of the Bank	HDFC BANK LTD GANDHINAGAR
Branch & Location	Plot # 448 , Sector -16 , Next to Pragna Petrol Pump , Gandhinagar - 382016 ; Gujarat.
Account Number; Nature of Account	01902790000051; CASH CREDIT
IFS CODE of the Branch	HDFC0000190

M.A.
M.A.

[Signature]

- 10. Mode of dispatch:** All the stores securely packed are to be dispatched by road transport to the consignee on Freight paid basis.
- 11. Security Deposit:** You have to furnish Security Depot amount in the form of Demand Draft or Bank Guarantee of any scheduled bank for 10% (ten percent) value of the awarded contract i.e. **Rs. 5,67,862.00** (Rupees Five Lakhs Sixty Seven thousand Eight hundred and sixty two only) without having any ceiling within 15 days time from the date of supply order to the order placing authority. The Bank Guarantee to be issued by the issuing bank on your behalf in the favour of "Western Coalfields Ltd " shall be in paper form as well as issued under "Structured Financial Messaging System"(SFMS), the format of which is attached as Annexure-B.
Security deposit money will be refunded to you within 30 days from the date of satisfactory execution of the contract. For unsatisfactory performance and / or contractual failure, the security money shall be forfeited.
Security Deposit money may be converted into performance Bank Guarantee as per the terms of the NIT, provided, the complete ordered items are supplied.
- 12. Performance Bank Guarantee:** You shall submit the Performance Bank Guarantee for the amount equivalent to 10% of the landed value of Equipment alongwith accessories and CAMC charges for 5 years including the GST i.e. for bank guarantee amount of **Rs. 5,67,862.00** (Rupees Five Lakhs Sixty Seven thousand Eight hundred and sixty two only). The Bank Guarantee shall be valid for a period of 72 months from the date of Commissioning of the complete EPABX System to cover the Guarantee / Warranty Period and CAMC Period of 5 years. The PBG shall be released after satisfactory completion of the Guarantee / Warranty period upon confirmation of GM(E&T), WCL Hqrs or extended as deemed fit. The format of Bank Guarantee to be issued under "Structured Financial Messaging System"(SFMS) is attached as Annexure-B. The Bank Guarantee to be submitted shall be in Paper form as well as on SFMS platform
- 13. Guarantee - Warranty:** You shall give a composite guarantee / warranty for satisfactory performance of the supplied EPABX System and other accessories for the period 12 months from the date of commissioning of the Equipments or 18 months from the date of receipt and acceptance of the Equipment by Consignee, whichever is earlier..

You shall be responsible for any defect that may, under the condition provided for by the contract and under proper use, arise due to faulty materials, design or workmanship and shall remedy such defect at your own cost. If it becomes so necessary for you to replace or to renew any defective part, such replacement or renewal shall be made by you 100% free of cost without any extra cost to Western Coalfields Limited. The new goods should be supplied on FOR destination basis free of cost.

14. Liquidated Damages & Risk Purchase clause: - In the event of failure to deliver or dispatch the stores within the stipulated date / period in accordance with the samples and/or specification mentioned in the supply order, and in event of breach of any terms and conditions mentioned in the supply order, Coal India Limited shall have the right,

- To recover from the successful bidder as agreed liquidated damages, a sum not less than 0.5% (half percent) of the price of any stores which the successful bidder has not been able to supply as aforesaid for each week or part of a week during which the delivery of such stores may be in arrears limited to 10% can be increased to 15% at the discretion of Head of MM Division.
- To purchase elsewhere, after due notice to the successful bidder on the account and at the risk of the defaulting supplier the stores not supplied or others of a similar description without canceling the supply order in respect of the consignment not yet due for supply, or
- To cancel the supply order or a portion thereof, and if so desired to purchase the stores at the risk and cost of the defaulting supplier and also-

d) To extend the period of delivery with or without penalty as may be considered fit and proper, the penalty, if imposed shall not be more than the agreed Liquidated Damages referred to in clause (a) above.

e) To forfeit the security deposit full or in part.

f) Whenever under this contract a sum of money is recoverable from any payable by the supplier, Coal India Limited and its subsidiary companies shall be entitled to recover such sum by appropriating, in part or in whole by deducting any sum from any other contract should this sum be not sufficient to cover the full amount recoverable. The successful bidder shall pay Coal India Limited and its subsidiary companies on demand the remaining balance. The supplier shall not be entitled to any gain on any such purchase.

15. SUBMISSION OF BILLS: The following documents are to be submitted along with original bills as per terms of the supply order to the consignee.

(i) Pre-receipted and stamped Tax Invoice as per GST rules

(ii) e-way bill (as per GST rules), if applicable.

(iii) Consignment note / RR/ LR in original. (if applicable)

(iv) **Guarantee / Warranty Certificates**

(v) Technical Brochure of the VC System and its components

(vi) Price Certificate (as per cl no: 17) and Price Fall certificate (as per cl no: 18)

(vi) Any other document as specified elsewhere in the order, if applicable.

16 Force Majeure Clause: If the execution of the contract/supply order is delayed beyond the period stipulated in the contract/supply order as a result of outbreak of hostilities, declaration of an embargo or blockade, or fire, flood, acts of nature or any other contingency beyond the supplier's control due to act of God then Coal India Limited or its subsidiary companies any allow such additional time by extending the delivery period, as it considers to be justified by the circumstances of the case and its decision shall be final. If and when additional time is granted by the Coal India Limited and its subsidiary companies, the contract/supply order shall be read and understood as if it had contained from its inception the delivery date as extended.

You will advise, in the event of his having to resort to this clause, by a registered letter duly certified by the local chamber of commerce or statutory authorities, the beginning and end of the causes of the delay, within fifteen days of the occurrence and cession of such force majeure conditions. In the event of delay lasting out of force majeure, WCL will reserve the right to cancel the contract, and provisions governing termination of contract as stated in the bid documents will apply.

For delay arising out of Force majeure, the bidder will not claim the extension in completion date for a period exceeding the period of delay attributable to the causes of force majeure and neither WCL nor the bidder shall be liable to pay extra cost provided it is mutually established that the force majeure conditions did actually exist.

If any of the force majeure conditions exist in the place of operation of bidder even in the time of submission of bid, he will categorically specify them in his bid, and state whether they have been taken in to consideration in their quotation.

17. Lowest Price Certificate: You shall certify in your invoice in the following format

"It is certified that the prices charged indicated in this invoice does not exceed the lowest price at which we sell or offer to sell or offer to sell the stores of identical description to any other organization during the period of contract"

18. Price fall certificate: You have to submit undertaking that you have not supplied / is not supplying similar products / systems or sub systems at a price lower than that offered in the present bid in respect of any other ministry / department of Govt of India or a PSU and if it is found that at any stage that similar product / system or subsystem was supplied by you to any other ministry / department of Govt of India or a PSU at a lower price, then that very price , with due allowance for the elapsed time, will be applicable to the present case and the difference in the cost would be refunded by you to WCL. A certificate to this effect shall be submitted by you alongwith supplies

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[Signature]

19. COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT: You have to undertake the Complete Comprehensive Maintenance of all the supplied and installed Equipments and its accessories for a period of 5 years after completion of the initial 12 months Guarantee / Warranty period, as per the prices as indicated above and the terms and conditions of the CAMC as under.

(a) **SCOPE OF WORK:** Complete comprehensive maintenance of all the equipments / parts (including repairs and replacement of spares & equipments at free of cost) supplied/installed excluding MF batteries and telephone instruments.

(b) A minimum of one visit in a quarter shall be carried out by the maintenance engineer as preventive periodic maintenance.

(c) In addition to the above, all types of breakdown calls are also to be attended and rectified within 24 hours from the date of reporting the complaint by telephone / fax/any other means.

(d) **Payment terms:** The payment of the AMC charges is payable on half yearly basis after rendering satisfactory services after deduction of penalty if any. The bill shall be submitted after duly certified by the concerned WCL Executive for payment.

(e) Maintenance holder shall maintain a joint record for fault report from time to time against the Breakdown / Preventive service visits of the subject equipment, which shall be duly certified by the concerned WCL Executive indicating the nature of fault, date of report and date of rectification. One copy of the joint visit must be submitted to the concerned Executive.

(f) Maintenance holder shall ensure that the during tenure of the AMC, any spares replaced by the maintenance holder shall be certified by the concerned WCL Executive and recorded in the WCL spares register.

(g) Complete reports shall be submitted along with the bills for the period of claim on satisfactory completion of AMC.

(h) No hike in the AMC rates during the tenure of the maintenance contract is entertained.

(i) If any parts / spares / components is replaced, the old part so removed is the property of the maintenance contractor.

(j) The maintenance contractor is responsible for the repairing of all defects including those caused on account of the normal wear and tear of equipments.

(k) **Penalty clause:** In any case of delay in rectification of the fault on the part of the maintenance holder, a penalty of Rs. 500 per day for 500 ports system shall be imposed subject to a maximum value of 10 % of the AMC contract value. The period from the date and time of the fault is reported to the maintenance contractor over telephone / fax shall be counted including the holidays. The penalty amount shall be deducted from the subsequent bills of the maintenance contractor.

(l) **Jurisdiction:** All disputes that may arise in this contract shall be settled in the jurisdiction of Nagpur court only.

(m) Service exclusions: The AMC Service do not cover the repair for damages, malfunctions or service failures caused by force majeure conditions such as riots, earth quakes, floods and major fire.

(n) WCL reserves the right to terminate the contract at any time of the tenure.

(o) Paying authority: Area Finance Manager of concerned Areas.


(p) Submission of bill: AMC bill shall be submitted to SO (E&M), concerned Areas.

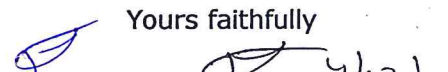
(q) CAMC shall automatically come into force after completion of the 12 months Guarantee / Warranty Period from the date of installation of the equipment

20. **Jurisdiction of Courts:** The court of the place from the acceptance of tender has been issued i.e Nagpur Court shall alone have jurisdiction to decide any dispute arising out of or in respect of the contract.

21. **General Terms and Conditions:** This order shall also be governed by the General Terms and conditions of supply of stores attached as Annexure-A, unless and otherwise specified above.

This order is being placed on the basis of terms and conditions already accepted by you as per the NIT terms. You may acknowledge the receipt of this order within 15 days from the date of receipt of this order.


(N V RAGHU BABU)
मूक्य.प्रबंधक (सा.प्र)

Yours faithfully

(K S R Divakar)
मूक्य.प्रबंधक (सा.प्र)

Enclosures: -

Annexure-A : General Terms and conditions

Annexure-B : Format for Bank Guarantee

Annexure -C: Technical Specifications of the EPABX System

Copy to :

1. GM(E&M) HOD/ GM(E&T) /GM(P&P) / GM(Fin)-I WCL(HQ), Nagpur
2. AGM / SO(E&M) / AFM / Depot Officer, WCL Ballarpur, Chandrapur , Wani North and Pathakera Areas
3. Chief Manager(Fin)CP, WCL Hqrs

4. M/s. KAREL Electronics Corporation -This has reference to your tender specific authorization vide
Cinnah, Caddesi, Pilot Sok 15, Chankaya dt. 14-03-2019

#06800 Ankara, Turkey

Indent details:


Sl no	Description of Item	Required for	Qty	Indent ref
1	EPABX - 300 lines against SOR	CGM Office Complex Ballarpur Area	1 set	3400648 dt. 04-01-2015
2	EPABX - 256 lines	Nandgaon, Chandrapur Area	1 set	3600185 dt. 01-07-2016
3	EPABX - 256 lines	CGM Office Wani North Area	1 set	17-18/4660/00252 dt.16-01-2018
4	EPABX - 256 lines	AHQ Pathakera Area	1 set	18-19/3560/00044 dt. 19-07-2018




BUDGET CERTIFICATION DETAILS:

FA/WCL/CAP/BC/OPM/12/40/45 dt. 29-11-2019 for Rs. 49,76,524.00 (Capital)

1. BC/WCL/Rev/ GM(E&T)/2021-22/CAMC Charges for VCS / 7/03/108 dt. 04-12-2019 for Rs. 1,40,420.00
2. BC/WCL/Rev/ GM(E&T)/2022-23/CAMC Charges for VCS / 7/03/108 dt. 04-12-2019 for Rs. 1,40,420.00
- 3.. BC/WCL/Rev/ GM(E&T)/2023-24/CAMC Charges for VCS / 7/03/108 dt. 04-12-2019 for Rs. 1,40,420.00
4. BC/WCL/Rev/ GM(E&T)/2024-25/CAMC Charges for VCS / 7/03/108 dt. 04-12-2019 for Rs. 1,40,420.00
5. BC/WCL/Rev/ GM(E&T)/2025-26/CAMC Charges for VCS / 7/03/108 dt. 04-12-2019 for Rs. 1,40,420.00


(N V RAGHU BABU)
मूक्य.प्रबंधक (सा.प्र)




(K S R Divakar)
मूक्य.प्रबंधक (सा.प्र)

ANNEXURE - C

TECHNICAL SPECIFICATIONS OF COMMUNICATION SERVER BASED ON TRUE IP SERVER & GATEWAYS (CLIENT) ARCHITECTURE EPABX SYSTEM OF 500 PORTS CAPACITY EPABX SYSTEMS OF WCL.

1. **Technical specifications: (KAREL IPG 1000 SERVER GATEWAY BASE IP PBX)**
 1. The exchange of 500 ports should be based on true IP communication server & gateways (client) architecture. The server should be built on industry standard server from DELL . It should be true IP based communication server supporting IP, Analog & Digital extensions. The Gateway should be equipped with the CPU & power supply redundancy. EPABX system will be powered through online UPS of 3 KVA capacity with 8 hours back up in case of power failures.
 2. The IP EPABX must have TEC approval for interfacing with BSNL network via digital & analog trunks and ISDN, BRI & PRI. Clear, signed & notarised TEC copy must be submitted.
 3. The operating system in the server should use an open source robust operating system like Linux, windows. The server should use IP to connect gateways.
 4. The server must have remote access capability over standard WAN/internet for maintenance.
 5. The system should have in built 2 auto sensing 10 / 100 MBPS LAN port.
 6. The server shall be equipped with necessary inskin, integrated hardware & software for remote access server. All associated software for operation & extension features licenses shall be provided.
 7. The system shall be IP enable telecom server. The switch should support MGCP protocol / SIP for transmission of voice over IP network. It should also support G.711 & G.729A encoding standards. The system should support peer to peer video telephony.
 8. All applicable software licenses for the equipped hardware should be enabled for analog, digital, IP extensions & no recurring charges in future shall be paid.
2. **General features of Server system: (DELL POWEREDGE R230 Rack Server)**
 1. Caller ID information for both internal and external networked callers should be available to all ISDN, IP & Analog subscribers.
 2. It should be possible to have minimum 15 parties meet conference over trunk line for more than 250 port system . And should have distinctive ringing. The system should have inskin voice mail system of the same MANUFACTURER & should have minimum 10 hours storage facilities
 3. System should support same software for call charging system, details of extension numbers date, time, called number, duration of call should be provided. System should support direct inward system access (DISA).
 4. The system should have onboard auto attendant facility on all trunks with flexibility of having different sets of announcement to separate incoming trunk groups. Auto attendant should be capable of handling minimum 08 trunks simultaneously on various trunks. Should support mobile twinning.

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