



CORRIGENDUM I

(Tender No. TPCODL/P&S/1000000245/2022-23)

(A RATE CONTRACT FOR SITC AND MANAGEMENT OF MPLS VPN LINKS FOR TPCODL, ODISHA)

1.3. Calendar of Events

Sl. No	Description	Existing Entry	Revised Timeline
(d)	Last Date of receipt of pre-bid queries, (through mail),if any	15.07.2022 up to 17:00 Hours	01.09.2023; 17:00 Hours
(e)	Last Date of Posting Consolidated replies to all the pre-bid queries as received	22.07.2022 up to 17:00 Hours	05.09.2023; 17:00 Hours
(f)	Last date and time of receipt of Bids	30.07.2022 up to 17:00 Hours	08.09.2023; 17:00 Hours

3.0 Submission of Bid Documents

Description	Existing Entry	Revised Entry
EMD	"EMD" as applicable shall be submitted. The EMD shall be <u>Valid for 210 days</u> from the due date of bid submission in the form of BG /Bank Draft/Bankers	"EMD" as applicable shall be submitted. The EMD shall be <u>Valid for 180 days</u> from the due date of bid submission in the form of BG /Bank Draft/Bankers Pay

TP Central Odisha Distribution Limited

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	Pay Order/Online Payment (issued from a Scheduled Bank) favoring 'TP Central Odisha Distribution Limited'.	Order/Online Payment (issued from a Scheduled Bank) favoring 'TP Central Odisha Distribution Limited'. Those Bidders who have already submitted EMD & Validity of the EMD expired are requested to increase the Validity to 180 Days from the Due date of bid submission.
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ANNEXURE I
Schedule for Items

Existing Entry				Revised Entry		
S.No.	Item Description	UoM	Qty.	Item Description	UoM	Qty. for 3 Yrs.
1	Link SITC Charges (One time)	EA	152	Link SITC Charges (One time)	EA	130
2	Annual Recurring 200 Mbps	EA	3	Annual Recurring 200 Mbps	EA	3
3	Annual Recurring 100 Mbps	EA	3	Annual Recurring 100 Mbps	EA	3
4	Annual Recurring 50 Mbps	EA	3	Annual Recurring 50 Mbps	EA	15
5	Annual Recurring 20 Mbps	EA	93	Annual Recurring 20 Mbps	EA	84
6	Annual Recurring 10 Mbps	EA	354	Annual Recurring 10 Mbps	EA	285
7	NA			Enterprise Router (One time)		130
8	NA			Equipment Rack (one time)		130
9	NA			Shifting & Re-installation Charge from One location to other	EA	30

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ANNEXURE VII

Scope of Work & Service Level Agreement

List of Locations with Bandwidth Requirement as mentioned below:

SI No.	Office Name	Office Type	Division Name	Bandwidth
1	ANGUL	DIVISION	ANGUL	50 Mbps
2	BOINDA SDO	SDO	ANGUL	20 Mbps
3	BAMUR	SECTION	ANGUL	10 Mbps
4	ATHAMALLIK	SECTION	ANGUL	10 Mbps
5	JARPADA	SECTION	ANGUL	10 Mbps
6	KOSALA	SECTION	ANGUL	10 Mbps
7	NARASINGPUR SDO	SDO	ATHAGADA	20 Mbps
8	KHUNTUNI	SECTION	ATHAGADA	10 Mbps
9	TIGIRIA	SECTION	ATHAGADA	10 Mbps
10	NUAPATNA	SECTION	ATHAGADA	10 Mbps
11	BARAMBA	SECTION	ATHAGADA	10 Mbps
12	KANPUR	SECTION	ATHAGADA	10 Mbps
13	NACHUNI	SECTION	BALUGAON	10 Mbps
14	BANAPUR 2	SECTION	BALUGAON	10 Mbps
15	TANGI 2	SECTION	BALUGAON	10 Mbps
16	RANAPUR	SECTION	BALUGAON	10 Mbps
17	KUHUDI	SECTION	BALUGAON	10 Mbps
18	BHUSANDPUR	SECTION	BALUGAON	10 Mbps
19	GODISAH	SECTION	BCDD-2	10 Mbps

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20	CDD-I	DIVISION	CDD-I	50 Mbps
21	CDD-II	DIVISION	CDD-II	100 Mbps
22	JOBRA SDO	SDO	CDD-II	20 Mbps
23	KANDARPUR	SECTION	CDD-II	10 Mbps
24	42MAUZA	SECTION	CDD-II	10 Mbps
25	CHOUDWAR	SDO	CED	20 Mbps
26	NIALI SDO	SDO	CED	20 Mbps
27	GOBINDAPUR	SECTION	CED	10 Mbps
28	BALICHANDRAPUR	SECTION	CED	10 Mbps
29	CHHATIA	SECTION	CED	10 Mbps
30	SITHALO	SECTION	CED	10 Mbps
31	DC Kalyani complex	Data Centre	CORPORATE	200 Mbps
32	GONDIA SDO	SDO	DHENKANAL	20 Mbps
33	K.NAGAR	SDO	DHENKANAL	20 Mbps
34	HINDOL ROAD SDO	SDO	DHENKANAL	20 Mbps
35	BHAPUR	SECTION	DHENKANAL	10 Mbps
36	GONDIA	SECTION	DHENKANAL	10 Mbps
37	JORANDA	SECTION	DHENKANAL	10 Mbps
38	KANKADA HADA	SECTION	DHENKANAL	10 Mbps
39	R N PUR	SECTION	DHENKANAL	10 Mbps
40	BHUBAN	SECTION	DHENKANAL	10 Mbps
41	M K GOLA	SECTION	DHENKANAL	10 Mbps
42	KALIAPANI	SECTION	DHENKANAL	10 Mbps
43	HINDOL ROAD	SECTION	DHENKANAL	10 Mbps
44	HINDOL	SECTION	DHENKANAL	10 Mbps
45	KHAJURIAKATA	SECTION	DHENKANAL	10 Mbps
46	BALIKUDA	SDO	JAGATSINGPUR	20 Mbps
47	RAGHUNATHPUR SDO	SDO	JAGATSINGPUR	20 Mbps

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48	MANDASAH	SECTION	JAGATSINGPUR	10 Mbps
49	DHIASAHI	SECTION	JAGATSINGPUR	10 Mbps
50	NAUGAON	SECTION	JAGATSINGPUR	10 Mbps
51	BIRIDI	SECTION	JAGATSINGPUR	10 Mbps
52	KENDRAPARA	DIVISION	KED-1	50 Mbps
53	PATTAMUNDAI	SDO	KED-1	20 Mbps
54	RAJNAGAR	SDO	KED-1	20 Mbps
55	AUL SDO	SDO	KED-1	20 Mbps
56	DANPUR	SECTION	KED-1	10 Mbps
57	INDUPUR	SECTION	KED-1	10 Mbps
58	CHHATA	SECTION	KED-1	10 Mbps
59	KENDRAPARA 3	SECTION	KED-1	10 Mbps
60	PATTAMUNDAI 2	SECTION	KED-1	10 Mbps
61	PATRAPUR	SECTION	KED-1	10 Mbps
62	DANDISAHI	SECTION	KED-1	10 Mbps
63	PATTAMUNDAI 3	SECTION	KED-1	10 Mbps
64	TALUCHUA	SECTION	KED-1	10 Mbps
65	BHUINPUR	SECTION	KED-1	10 Mbps
66	MAHAKALAPADA SDO	SDO	KED-2	20 Mbps
67	NUAPADA	SECTION	KED-2	10 Mbps
68	GARADAPUR	SECTION	KED-2	10 Mbps
69	KORUA	SECTION	KED-2	10 Mbps
70	BABAR	SECTION	KED-2	10 Mbps
71	KHURDA	DIVISION	KHURDA	50 Mbps
72	JANKIA	SDO	KHURDA	20 Mbps
73	JATANI	SDO	KHURDA	20 Mbps
74	BANKI	SDO	KHURDA	20 Mbps
75	BEGUNIA SDO	SDO	KHURDA	20 Mbps

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76	MALIPADA	SECTION	KHURDA	10 Mbps
77	NIRAKARPUR	SECTION	KHURDA	10 Mbps
78	HARIRAJPUR	SECTION	KHURDA	10 Mbps
79	JANLA	SECTION	KHURDA	10 Mbps
80	BANKI 2	SECTION	KHURDA	10 Mbps
81	BANKI 3	SECTION	KHURDA	10 Mbps
82	BAGHAMARI	SECTION	KHURDA	10 Mbps
83	KALAPATHAR	SECTION	KHURDA	10 Mbps
84	KHANDAPADA SDO	SDO	NAYAGARH	20 Mbps
85	DASPALLA SDO	SDO	NAYAGARH	20 Mbps
86	SARANAKUL 1	SECTION	NAYAGARH	10 Mbps
87	SARANAKUL 2	SECTION	NAYAGARH	10 Mbps
88	ODAGAON 1	SECTION	NAYAGARH	10 Mbps
89	KANTILO	SECTION	NAYAGARH	10 Mbps
90	GANIA	SECTION	NAYAGARH	10 Mbps
91	NUAGAON	SECTION	NAYAGARH	10 Mbps
92	Konark	Section	NIMAPARA	10 Mbps
93	KAKATPUR	SDO	NIMAPARA	20 Mbps
94	BALIPATNA	SECTION	NIMAPARA	10 Mbps
95	GOP	SECTION	NIMAPARA	10 Mbps
96	ASTARANG	SECTION	NIMAPARA	10 Mbps
97	KAKATPUR 2	SECTION	NIMAPARA	10 Mbps
98	PIPILI	SDO	NIMAPARA	20 Mbps
99	BHARATIPUR	SECTION	NIMAPARA	10 Mbps
100	BALAKATI	SECTION	NIMAPARA	10 Mbps
101	TIRTOL SDO	SDO	PARADEEP	20 Mbps
102	KUJANGA SDO	SDO	PARADEEP	20 Mbps
103	BHUTAMUNDAI	SECTION	PARADEEP	10 Mbps

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104	ERSAMA	SECTION	PARADEEP	10 Mbps
105	KOLAR	SECTION	PARADEEP	10 Mbps
106	RAHAMA	SECTION	PARADEEP	10 Mbps
107	CHATUA	SECTION	PARADEEP	10 Mbps
108	PURI	DIVISION	Puri	50 Mbps
109	Sakhigopal	SDO	Puri	20 Mbps
110	SWARGADWAR	SECTION	Puri	10 Mbps
111	Brahmagiri-II	SECTION	Puri	10 Mbps
112	Sunamuhin	SECTION	Puri	10 Mbps
113	SATASANKHA	SECTION	Puri	10 Mbps
114	Delang	SECTION	Puri	10 Mbps
115	Kanas	SECTION	Puri	10 Mbps
116	Chandanpur	SECTION	Puri	10 Mbps
117	MAHANGA SDO	SDO	SALIPUR	20 Mbps
118	N KOILI SDO	SDO	SALIPUR	20 Mbps
119	BAHUGRAM	SECTION	SALIPUR	10 Mbps
120	ERKANA	SECTION	SALIPUR	10 Mbps
121	ORIKANTA	SECTION	SALIPUR	10 Mbps
122	TALCHER SDO	SDO	TALCHER	20 Mbps
123	MERAMANDALI	SECTION	TALCHER	10 Mbps
124	BANARPAL	SECTION	TALCHER	10 Mbps
125	KANIHA	SECTION	TALCHER	10 Mbps
126	SAMALA	SECTION	TALCHER	10 Mbps
127	KHAMARA	SECTION	TALCHER	10 Mbps
128	PARBIL	SECTION	TALCHER	10 Mbps
129	RENGALI	SECTION	TALCHER	10 Mbps
130	PARJANG-I	SECTION	TALCHER	10 Mbps

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Technical Specifications for Enterprise Office Router

1. Preferred make : Cisco/HPE/Juniper or Equivalent

Architecture

2. Router shall have RISC-based processors providing robust routing and security
3. Router shall have two 10/100/1000 Mbps routed ports (RJ- 45) and one Gigabit SFP Routed Port. Router should have Min 2 WAN ports & 6 LAN Ports
4. The router shall have three WAN Interface card slots supporting LAN/WAN/Voice interface cards - Ethernet, V.35, E1, FXS/FXO, 3G/4G Module etc
5. The router shall support internal/external redundant power supplies
6. The router shall be 19" Rack Mountable (any hardware required shall be offered)

Performance

7. The router forwarding performance shall be minimum 2 Mpps
8. The router shall have Hardware-based encryption acceleration. Minimum 1000 IPsec Tunnels should be supported
9. The router shall have an encryption performance of 1Gbps
10. The router should have Field-programmable gate array (FPGA) to improve the uplink performance and router should have the ability to ease utilization of the main processor by transmitting Layer 2 packets directly via the Multi Gigabit Fabric.
11. Minimum 200K IPv4 and 200K IPv6 route entries

Features (Any licenses required shall be included)

12. The router shall support the following IP Routing Protocols (IPv4) - Static Routing, RIP, OSPF, BGP, and IS-IS
13. The router shall support the following IP Routing Protocols (IPv6) - Static Routing, RIPng, OSPFv3, BGP+, and IS-ISv6
14. The router shall support Multicast routing protocols for IPv4 and IPv6 such as PIM-DM, and PIM-SM.

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15. The router shall support Policy-based routing
16. The router shall have QoS features including Traffic policing, shaping, Congestion management, congestion avoidance etc
17. The router shall have embedded security capabilities like Firewall, IPSec, ACL Filtering etc
18. The router shall provide IPv6 transition mechanisms like NAT-PT, Tunneling etc
19. Dynamic VPN Capability for ease of VPN deployment
20. Router shall have integrated/external WAN traffic optimization features

Management

21. SNMP V1/V2c/V3, RMON, sFlow/Netflow
22. RADIUS/TACACS+ for management security
23. Integrated console port (CLI) provided with console cable

Power Supply

24. Router shall be capable of working with input voltage 100 to 240 VAC

Technical Specifications for Rack

Power Supply

1. Should be 6 U Height Rack and have 19" mounting bracket in front & rear and wall mountable with side panels, Front Glass Door with lock.
Depth: min. 600 mm; Width: min 550 mm
2. PDU with 220 -240 VAC
3. Power cable 20 Mtr.
4. Mounting Hardware
5. Laying upto 15 Mtr Cat6 cable in proper conduit from Dc rack to RTU rack
6. Cat6 cable should be from a reputed brand (Legrand/CommsCope/Triplett)
7. Conduit pipe should be GI conduit pipe
8. Labelling and marking should be proper
9. From Tower to rack uplink cable should be proper laying and dressing

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Scope of Work for Router & Rack SITC

TPCODL nominated person will release RO/ mail for supply and Installation of Network Equipment's & rack along with IP/MPLS links across TPCODL area.

- i. SITC of Router along with Mounting of the appliance in the rack.
 - ii. Prepare landscape/diagram and deliverable Sow Complete configuration of the device to integrate with network.
 - iii. Installing the related hardware/software components and terminating the cables on network.
 - iv. Complete configuration of the device to integrate with network.
 - v. Implement and Documentation of the same.
 - vi. BA should complete the project as per the agreed timeline.
 - vii. Provisioning of Monitoring of Router parameters through Web portal along with the links.
 - viii. The warranty/support period will start from date of completion of installation of device i.e. from the date on which installation report is signed by TPCODL in TPCODL format.
- a) The warranty of the equipment's carries for 3 years. BA shall provide ON site maintenance of the equipment's for a period 3 years as per terms and conditions laid in this document.
 - b) BA shall be authorized channel partner of OEM. BA shall submit the authorization certificate form OEM along with this SLA.
 - c) Uptime guarantee: Uptime of the equipment's will be 99 %. This will be calculated on monthly basis.
 - d) In case of any fault or other problem all supplied material should be replaced and installed at respective site location only

Maintenance Services

BA shall provide maintenance services under this agreement for the equipment listed above on per agreed vide purchase order number for the purchased equipment.

The maintenance services shall include the following: -

(i) Corrective Maintenance



Any system failure, service will be attended by BA's engineer and if necessary by their specialists and consultant. If any spare parts or full system requires replacement, it should be replaced with equivalent model or higher model only. Till the time spare part / services is replaced/restored, entire appliance will be considered to be down.

(ii) Preventive Maintenance

BA needs to carry out required Preventive Maintenance of the device. The down time required for Preventive Maintenance will be included in total down time of system to calculate quarterly uptime and also communicated to TPCODL management by the BA.