CORRIGENDUM – I
DT 21-06-2024

TENDER NOTIFICATION FOR

TENDER FOR SETTING UP OF DATA CENTER FOR DISASTER RECOVERY, BACKUP SOFTWARE, HARDWARE AND SUPPORT IN BRPL

NIT NO: CMC/BR/24-25/RB/PR/MS/1192

Tender Date: 31.05.2024

BSES RAJDHANI POWER LTD (BRPL)
Corporate Identification Number: **U74899DL2001PLC111527**
Telephone Number: +91 11 3009 9999
Fax Number: **+**91 11 2641 9833
Website: **www.bsesdelhi.com**

CORRIGENDUM I: NIT NO: CMC/BR/24-25/RB/PR/MS/1192 DT 18-06-2024

SEAL & SIGNATURE OF BIDDER

Query Type Technical / Commercial	Page No.	Clause No.	BRPL Clause	Corrigendum - I
Technical Qualification Criteria	3	2. Qualification Criteria; Serial No. 3	The bidder should have implemented the proposed backup &replication solution for at least 100 TB data, which should be running successfully, in at least 2 Govt. organizations/ Financial Institution/ Public Sector Undertakings/ Commercial Bank/ Telecom in India during last 2 years, as on bid submission date.	The bidder should have implemented the any backup &replication solution for at least 75 TB data, which should be running successfully, in at least one (1) Govt. organizations/ Financial Institution/ Public Sector Undertakings/ Commercial Bank/Private/Enterprise/Corporate/ Telecom in India during last 5 years, as on bid submission date.
Technical Query	81	M69	Shall have min dual controller/ server system with automatic failover. There should be no single point of failure (including the node/ server) for complete solution. Backup /restoration activity should not be disturbed anyway dues to any hardware issues in proposed solution	**Amended** Shall have min dual CPU / Controller / server system with automatic failover. There should be no single point of failure (including the node/ server) for complete solution. Backup /restoration activity should not be disturbed anyway dues to any hardware issues in proposed solution.

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Technical Query	88	M102	Storage Hardware & software should have life & support for 10 Years from the date of installation & commissioning.	Storage Hardware & software should have life & support for 7 Years from the date of installation & commissioning.
Technical	84	M80	Storage should deliver 20000 IOPS and 650MB/s Throughput Storage should have capability to provide atleast 65000 IOPS and 2.0 GB/s throughput by adding additional drives.	Amended to: Storage should deliver 5000 IOPS and 650MB/s Throughput Storage should have capability to provide atleast 65000 IOPS and 2.0 GB/s throughput by adding additional drives.
Technical	90	EVALUATION OF SOLUTION AND VENDOR COMPETENCY	The Proposed Backup software and Storage Must be present as Leaders in Gartner's Magic Quadrant for backup software report consistently from last 5 years	The Proposed Backup software and Storage Must be present as Leaders in Gartner's Magic Quadrant for backup software report consistently from last 3 years
Technical	79	M55	The offered software must integrate with different hypervisors managers to backup different platforms including RHEV, VMware, Hyper-V, Oracle Virtual machine, KVM, ESXI, Nutanix, Citrix Xen	Backup Hardware/appliance, if proposed must integrate with different hypervisors managers to backup different platforms including RHEV, VMware, Hyper-V, Oracle Virtual machine, KVM, ESXI, Nutanix, Citrix Xen

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Technical	80	M65	Proposed solution should be configured with appropriate 16/32Gbps FC - 10/40Gbps Ethernet/FC - 16Gbps SAS ports depending on RPO requirement mentioned earlier. It is the OEM ownership to add more ports, if required, to meet the requirement	Amended to "Proposed solution should be configured with "2* 16/32Gbps FC - 2* 10/25Gbps Ethernet ports depending on RPO requirement mentioned earlier" for wider participation." Its is upto Bidder to recommend appliance based or software based backup
Technical	81	M68	Shall support modern data backup solution for LAN/SAN based D2D (disk to disk) backup. Optionally, for legacy solution vendors, knowing our complete environment mentioned in RFP, if solution require support of VTL (Virtual tape library) backup simultaneously via suitable protocols like NFS, CIFS, VTL, FC, OST , NDMP, etc, that should be configured	Amended to "Shall support modern data backup solution for LAN/SAN based D2D (disk to disk) backup. Optionally, for legacy solution vendors, knowing our complete environment mentioned in RFP, if solution require support of VTL (Virtual tape library) backup simultaneously via suitable protocols like NFS, CIFS, VTL, FC, NDMP, etc, that should be configured
Technical	84	M85	The system should be offered with minimum 128GB Cache	Amended The system should be offered with minimum **256**GB Cache This is for storage requirement and not for Backup

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Commercial	19	20.0 LIQUIDATED DAMAGES	20.01 If supply of items / equipment is delayed beyond the supply schedule as stipulated in LOI/PO, then the Supplier shall be liable to pay the Purchaser for delay as mentioned	Penalty due to delay in Delivery & implementation i. A-Hardware Cost for both DC & DR (including all related hardware) ii. B-Software Cost (including all related software) iii. C-Implementation Cost

S. No	Item	Expected Timeline	Penalty	Max. Penalty	Threshold of Delay
1	Delivery Complete of Solution including	Within Six (6) Weeks from the date of Purchase Order	0.5% of (A+B) for every week delay	5% of (A+B)	Three (3) months from the date of Purchase Order
2	Complete Implementation	Within Eight (8) weeks from the date of delivery.	0.5% of (A+B+C) for every week delay	5% of (A+B+C)	Five (5) months from the date of Purchase Order

Technical	79	M51	The Utilization should not exceed 80% at any instance during the contract period - so sizing to be done for the current defined workload basis the max 80% utilization consideration	Change to - The Utilization should not exceed 90% at any instance during the contract period - so sizing to be done for the current defined workload basis the max 80% utilization consideration. Please add 10% capacity in you solution.
Technical	84	M89	Minimum RAM configuration should be 128 GB per Node M85:The system should be offered with minimum 128GB Cache	Minimum RAM configuration should be 64 GB per Node

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Addition of CEA Guidelines			New	Bidder must submit the certificate as per CEA guidelines by MTCTE as enclosed below
Bid Submission and Opening	1, 2 and 7	Last date of receipt of bid Documents : 20.06.2024, 15.00 HRS		Last date of receipt of bid Documents : 01.07.2024, 15.00 HRS
		Date & time of opening of tender – Part A : 21.06.2024, 15.00 HRS		Date & time of opening of tender – Part A : 01.07.2024, 15.00 HRS

Note : For pre-bid replies, please refer another sheet enclosed on website.

CORRIGENDUM I: NIT NO: CMC/BR/24-25/RB/PR/MS/1192 DT 18-06-2024

Government of India
Ministry of Power
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Shram Shakti Bhawan, Rafi Marg
New Delhi, Dated: 10th January, 2024

To

The Chairperson,
Central Electricity Authority,
Seva Bhavan, R.K. Puram,
New Delhi.

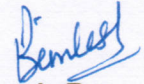**Subject: Mandatory Testing and Certification of Telecom Equipment (MTCTE).**

Sir,

With reference to the subject cited above, I am directed to say that the Department of Telecom vide letter no. 6-6/2021-TC/TEC dated 17.10.2023 has requested to ensure that only MTCTE certified Telecom and Networking products are procured and connected in the Indian Telecom Network as mandated by Indian Telegraph (Amendment) Rules, 2017. It was also requested that regulatory requirement of obtaining MTCTE certification by OEMs/ Importers before sale of notified Telecom & Networking products may also be communicated to Manufacturers/ Sellers, who are supplying / selling such Telecom & Networking products.

2.   In this regard, it was also informed that MTCTE certificate for 12 products being connected to Telecom Network/ used for data transfer (such as Router, LAN Switch, Smart Electricity Meters etc.) will become mandatory from 01.04.2024 and for remaining 32 products from 01.01.2024 (list enclosed).

3.   In view of the above, it is requested to take all necessary measures in this regard so that the requirement for MTCTE certification can be made mandatory for OEMs/ Importers as per the stipulated timelines. It is further requested to submit a detailed action plan in this regard to this Ministry latest by 12.01.2024.

5.   This is issued with the approval of Competent Authority.

Yours faithfully

(Bimlesh Pawar)
Under Secretary (UR&SI-II)

Encl.: As above.

Copy to:

1. **CMD, REC**
2. **CMD, PFC**

Also copy to: PPS to Secretary (Power)/ PSO to Joint Secretary (Distribution)/ PPS to Dy. Secretary (UR&SI)

डॉ. नीरज मित्तल, भा.प्र.से.
सचिव

DR. NEERAJ MITTAL, IAS
Secretary

भारत सरकार
संचार मंत्रालय
दूरसंचार विभाग

GOVERNMENT OF INDIA
MINISTRY OF COMMUNICATIONS
DEPARTMENT OF TELECOMMUNICATIONS

DO. No. 6-6/2021-TC/TEC
17th October, 2023

Dear Pankaj,

This letter pertains to procurement of telecom equipment (that may be procured for projects such as Bharatnet and local state telecom/ IT projects) by the State Governments that need to be MTCTE certified. In this regard, Department of Telecommunications (DoT) has notified the 'Indian Telegraph (Amendment) Rules, 2017' vide Gazette Notification No G.S.R. 1131(E) dated 5th September 2017 on 'Testing and Certification of Telegraph.' The said notification mandates that *any telegraph (telecom) equipment which is used or capable of being used with Indian telecom network, shall have to undergo prior Mandatory Testing & Certification in respect of parameters as determined by the telegraph authority from time to time.* The above rules have come into force on 1st October 2018. (Copy of Gazette Notification dated 5th September 2017 is available on DoT website https://dot.gov.in/act-rules.

2.   The objective of said mandatory testing and certification is to ensure:

(i)   That any Telecom Equipment does not degrade performance of existing network to which it is connected;
(ii)   Safety of the end–users;
(iii) Protection of users and general public by ensuring that radio frequency emissions from equipment do not exceed prescribed standards;
(iv)   That telecom equipment complies with the relevant national and international regulatory standards and requirements and
(v)   Security of Telecom Network/ Systems.

3.   In pursuance to above Rules, Telecommunication Engineering Centre (TEC), the technical body under Department of Telecommunications (DoT) is administrating the implementation of Mandatory Testing & Certification of Telecom Equipment (MTCTE) Scheme. The specific Telecom & Networking product covered under MTCTE scheme is notified by TEC from time to time on MTCTE website (https://www.mtcte.tec.gov.in) indicating certification enforcement date.

4.   As on date, MTCTE certificate is mandatory for Telecom & Networking product such as Cordless/CLIP/Landline Phone, PABX, FTTH OLT/ONT/ONU used for broadband services etc. prior to their sale/use in India (Annexure-A).

Contd....2/-

Further, from 1st January 2024, MTCTE certificate for more products (such as Router, LAN Switch, wifi Access Modems, IoT gateway, Tracking Device, Smart electricity meter, End Point Device for Environmental Monitoring, Optical Fibre, Optical Fibre Cable, Walkie-talkie etc.) will become mandatory as being connected to Telecom network/used for data transfer. The complete list of such notified Telecom product is available on MTCTE website.

Presently, the MTCTE certificate has been issued to more than 3,000 Telecom & Networking product models. The details of MTCTE certified products are available on website (https://www.mtcte.tec.gov.in > certified equipment).

5. In view of the above, it is requested to kindly inform about Mandatory Testing & Certification of notified Telecom equipment to IT Department and other concerned departments/Autonomous bodies/attached offices etc., so as to ensure that only MTCTE certified Telecom & Networking products are procured and connected in the Indian Telecom Network as mandated by Indian Telegraph (Amendment) Rules, 2017. Further, the regulatory requirement of obtaining MTCTE certification by OEMs/Importers before sale of notified Telecom & Networking products may also be communicated to Manufacturers/Sellers, who are supplying/selling such Telecom & Networking products.

6. In case of any further details or clarification in this regard, Director (TC-1), TEC, New Delhi may be contacted on e-mail id: dirta.tec@gov.in.

Yours sincerely

(Neeraj Mittal)

Encl: as above

Shri Pankaj Agarwal
Secretary
Ministry of Power
Room No.205, Shramshakti Bhawan
Rafi Marg
New Delhi – 110 001.

List of Notified Telecom & Networking Products under Mandatory Testing & Certification of Telecom Equipment (MTCTE)

S.N	Essential Requirement/ Product Name	Main Product Variants	MTCTE Phase	Mandatory date of certification of product underMTCTE
1.	2- Wire Telephone Equipment	2-Line Feature Phone; CLIP (Calling Line Identification Presentation) Phone; Electronic Telephone Instrument; Executive Telephone Systems; Key Telephone Systems; Key Telephone Systems with proprietary interface;	Phase-1	1st October, 2019
2.	G3 Fax Machine	FAX machine with & without handset	Phase-1	1st October, 2019
3.	Modem	V.90 or V.92 or V.21 to V.34 Modem	Phase-1	1st October, 2019
4.	Cordless Telephone	Cordless Telephone	Phase-1	1st October, 2019
5.	ISDN (Integrated Services Digital Network) Customer Premises Equipment	ISDN Gateway; ISDN Terminal;	Phase-1	1st October, 2019
6.	Private Automatic Branch Exchange	Private Automatic Branch Exchange	Phase-1	1st October, 2019
7.	PON (Passive Optical Network) Family of Broadband Equipment	PON OLT (Optical Line Terminal); PON ONT (Optical Network Terminal); PON ONU (Optical Network Unit);	Phase-2	1st October, 2020
8.	Feedback Device	Feedback Device	Phase-2	1st October, 2020
9.	Transmission Terminal Equipment	Multiplexing Equipment; SDH (Synchronous Digital Hierarchy) Equipment	Phase-2	1st October, 2020

Note 1: The complete list/details of MTCTE notified products with enforcement date are available on website https://www.mtcte.tec.gov.in

Note 2: The details of MTCTE certified products (make & model) are available on website (https://www.mtcte.tec.gov.in > certified equipment)

Telecommunication Engineering Centre
(Department of Telecommunications)
Khurshid Lal Bhawan, Janpath, New Delhi - 110 001
https://www.tec.gov.in/

No. 5-2/2021-TC/TEC/185   Dated: 27/12/2023

<u>**Amendment Notification**</u>

Subject: Extension of mandatory certification date for 12 products (ERs) notified under phase-III & IV of MTCTE by three months i.e. from 01.01.2024 to 01.04.2024 -reg.

Ref: No. 5-2/2021-TC/TEC/131 dated 23/06/2023 & no. 5-2/2021-TC/TEC/172 dated 27/09/2023

In partial modification to this office Notification no. 5-2/2021-TC/TEC/131 dated 23/06/2023 & no. 5-2/2021-TC/TEC/172 dated 27/09/2023, w.r.t. the testing and certification of telecom & networking equipment notified under Phase-III & Phase-IV of MTCTE regime, the following amendments are hereby notified with immediate effect as mentioned below:

a. Extension of date of mandatory certification of 12 products (ERs) out of 44 products notified under MTCTE phase-III and IV by three months i.e. from 01.01.2024 to 01.04.2024. The list of 12 products is placed at Annexure-I.
Mandatory date of certification for remaining 32 products (ERs) shall remain unchanged i.e. 01.01.2024. The list of 32 products is placed at Annexure-II.

b. Extension of last date of acceptance of test reports issued by labs accredited by International Laboratory Accreditation Cooperation (ILAC) signatories from non-border sharing countries by three months for technical parameters only i.e. from 31.12.2023 to 31.03.2024 for the 08 products (ERs) mentioned in Annexure-III.

This issues with the approval of Competent Authority.

अवधेश सिंह/Avadhesh Singh
निदेशक (टी॰सी॰-I)/Director (TC-I)
Email- dirta.tec@gov.in

Copy to (through email):

i. PS to Hon' ble MoC, DOT, New Delhi

ii. PS to Hon'ble MoSC, DOT, New Delhi

iii. PPS to Secretary (T), DOT, New Delhi

iv. PPS to Member(S)/ Member(T)/ Member(F)/ DG(Telecom), DOT, New Delhi

v. Advisor, TEC New Delhi / Sr. DDG, NCCS Bangalore/ CEO, C-DOT

vi. JS (Customs), CBIC

vii. AD (IT)/AD (TC), TEC for uploading on TEC/MTCTE website

viii. Office copy

29/12/2023

List of 12 products (ERs) under phase-III & IV of MTCTE with mandatory certification date as 01.04.2024

S No	ER/Product	Notified in Phase
1.	Base Station for cellular network	Phase-III
2.	Repeater for Cellular Network	Phase-III
3.	Smart Electricity Meter	Phase-III
4.	SIM	Phase-IV
5.	HF Radio	Phase-IV
6.	Mobile Radio Trunking System	Phase-IV
7.	VHF UHF Radio System Equipment	Phase-IV
8.	PTP PMP Microwave Fixed Radio System	Phase-IV
9.	LAN Switch	Phase-IV
10.	Router	Phase-IV
11.	IP Security Equipment	Phase-IV
12.	Satellite Communication Equipment	Phase-IV

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List of 32 products (ERs) under phase-III & IV of MTCTE with mandatory certification date as 01.01.2024

S.No	ER/Product	Notified in Phase
1.	Compact Cellular Network	Phase-III
2.	Equipments Operating in 2.4 GHz and 5 GHz Band	Phase-III
3.	IoT Gateway	Phase-III
4.	Tracking Device	Phase-III
5.	End Point Device for Environmental Monitoring	Phase-III
6.	Radio Broadcast Receiver RBR	Phase-IV
7.	Optical Fibre-Single Mode	Phase-IV
8.	Optical Fibre Cable	Phase-IV
9.	DSL Equipments	Phase-IV
10.	Signalling Gateway	Phase-IV
11.	Session Border Controller	Phase-IV
12.	Softswitch	Phase-IV
13.	Media Gateway	Phase-IV
14.	Precision Timing Protocol Grand Master Equipment	Phase-IV
15.	Infiniband Switch	Phase-IV
16.	IP Multimedia Conferencing Equipment	Phase-IV
17.	Conferencing Equipment	Phase-IV
18.	Transmission Terminal Equipment-2 (DWDM, Digital Cross Connect)	Phase-IV
19.	Mobility Management Entity (MME)	Phase-IV
20.	Serving GPRS Support Node (SGSN)/Gateway GPRS Support Node (GGSN)	Phase-IV
21.	Base Station Controller (BSC)/Radio Network Controller (RNC)	Phase-IV
22.	Cell Broadcast Centre (CBC)	Phase-IV
23.	Gateway Mobile Location Centre (GMLC)	Phase-IV
24.	Home Location Register (HLR)/Authentication Centre(AUC)/Home Subscriber Server (HSS)	Phase-IV

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25.	Mobile Switching Centre (MSC)/MSC-Server (MSC-S)/ Gateway MSC (GMSC) / Gateway MSC- Server (GMSC-S) including Visitor Location Register (VLR)	Phase-IV
26.	OTA and DM or FOTA	Phase-IV
27.	Service Control Point (SCP)	Phase-IV
28.	Operation Maintenance Support (OMC) / Element Management System (EMS) / Network Management System (NMS) / Operation Support System (OSS)	Phase-IV
29.	Serving Gateway (S-GW) / Packet Gateway (P-GW)	Phase-IV
30.	Short Message Service Centre (SMSC)	Phase-IV
31.	Serving Mobile Location Centre (SMLC) or eSMLC	Phase-IV
32.	Equipment Identity Register (EIR)	Phase-IV

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List of 08 products (ERs) under phase-III & IV of MTCTE for acceptance of test reports in respect of 'Technical Parameter' up to 31.03.2024 from labs accredited by ILAC signatories from non- border sharing countries

S. No	ER/Product	Notified in Phase
1.	Base Station for cellular network	Phase-III
2.	Repeater for Cellular Network	Phase-III
3.	Compact Cellular Network	Phase-1 II
4.	SIM	Phase-IV
5.	HF Radio	Phase-IV
6.	VHF UHF Radio System Equipment	Phase-IV
7.	Radio Broadcast Receiver RBR	Phase-IV
8.	Satellite Communication Equipment	Phase-IV

Note: - *As on the date of submission of test reports, the validity of test reports/results issued by foreign labs accredited by ILAC signatories from non-border sharing countries for technical parameters only shall be up to two years in respect of the above products (ERs).*

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27/12/2023