



ITI Limited

ITI Bhavan, Dooravani Nagar, Bengaluru – 560016

CIN No: L32202KA1950GOI000640

CORRIGENDUM – 1

Request for Proposal (RFP) For the Selection of Partner for Technology Transfer for Uninterrupted Power Supply Solution(UPS) Manufacturing

Corrigendum1 Ref: ITI/COR/P&T/RFP/UPS/2025/Corg1	Date: 28/01/2025
RFP Ref : ITI/COR/P&T/RFP/UPS/2025/02	Date: 10/01/2025

RFP schedule is revised as below

S.No.	Activity	Old Schedule	Revised Schedule
i	RFP Issue Date	10/01/2025	
ii	Due Date & Time for Submission of Proposal through Uni Wizard	30/01/2025, 15:00 Hrs	06/02/2025, 15:00 Hrs
iii	Date & Time of opening of Proposals	31/01/2025, 15:00 Hrs	07/02/2025, 15:00 Hrs

The draft reply to the queries raised by probable bidders and the clarification by ITI LTD is listed below,

Sr. No.	Page No.	Section No.	Brief Description of the clause	Query/Clarification sought for	ITI response
1.	11	5.C.v	As per Govt. procurement policy for Micro and small Enterprises, 2012 (amended 2018 and 2021), Micro and Small Enterprises (MSEs) may be given relaxation in prior turnover and prior experience criteria during tender process, subject to meeting of Quality and Technical Specifications.	If the start up is registered under Udhyam & MSME, without eligibility on financial and experience of min 5000 nos, but competent enough to design and get the product approval, can they participate in the BID	As per Tender
2.		Annexure - V	Technical Specification	You are looking for 2 Rectifiers of 1 kW each on hot standby where load gets transferred to the other on 7 day interval. But you haven't mentioned anything about the topology that is being considered. Please clarify if you are looking for SMPS based rectifier or normal SCR/Thyristor based topology. Input power factor is also not mentioned. Please clarify	As per TEC GR compliance mentioned in BSNL RFP MM/BNO&M/BN-III/T-791/2024 issued on 15.02.2024 Please refer Annexure below

3.		Annexure - V	Technical Specification	Since the SMPS topology on 1+1 allows load sharing & hot swappable, would you be interested in looking into this topology and we can even offer PFC based solution to save power consumption and TCO. In this case, both the SMPS will share the load and in case of a failure in any one, the other will take over the full load and notify you through alert with location and device unique ID	As per TEC GR compliance mentioned in BSNL RFP MM/BNO&M/BN-III/T-791/2024 issued on 15.02.2024 Please refer Annexure below
4.		Annexure - V	Technical Specification	Battery specification is given in general. But no mention about the chemical, whether prismatic or cylindrical or liquid cooled etc.	As per TEC GR compliance mentioned in BSNL RFP MM/BNO&M/BN-III/T-791/2024 issued on 15.02.2024 Please refer Annexure below
5	2	1	ITI has submitted its bid in Bharat Net Phase III project for Development (Creation, Upgradation and Operation & Maintenance) of Middle mile network of BharatNet on Design Build Operate and Maintain (DBOM) Model. In this regards, proposals are invited under e-tender	We understand RFP TOT is only for packages won by ITI/Consortium for Bharatnet Phase III. As we are manufacturing Hybrid UPS and Battery including EMS, we are in discussion with other PIAs for the same Project.	As per tender

			<p>mode from the bidders having proven technological capabilities including necessary Uninterrupted Power Supply (UPS) Solution meeting the Generic technical specifications as per Annexure- enable ITI with technological detail to manufacture UPS Solution as per terms & conditions enumerated below.</p>		
6	2	3	<p>ITI intends to manufacture “UPS System” meeting Generic technical specifications as per Annexure-V” to supply against the requirement in Bharat Net Phase III (DBOM) project. For Generic Technical Specification please refer to Annexure-V. Technical details are for reference purpose only as technical Elements and Specification will vary as per customer requirements. The selected Partner, should be willing to provide ITI with technological details for manufacturing and servicing of “Uninterrupted Power Supply(UPS) Solution” on exclusive basis to enable ITI as Class-I manufacturer</p>	<p>Specifications mentioned in Annexure-V against tender no: MM/BNO&M/BN-III/T-791/2024 issued on 15.02.2024 is amended as per letter no: BSNLCOMMT/14(11)/3/2024-MMT dated 22.06.2024 (as Amendment 25). In this Amendment Hybrid UPS should comply to TEC GR: 66160:2024. Li-Ion Battery as per TEC: 67030:2024 GR and Solar Panel as per 66080:2016 TEC GR. As we are manufacturing Hybrid UPS and Battery including EMS, we are in discussion with other PIAs for the same Project.</p>	As per Tender

			of UPS Solution with minimum 50% value addition.		
7	3	3	<p>Key elements of an UPS solution are as below:</p> <ol style="list-style-type: none"> 1. Inverter 2. Rectifier 3. Solar Charge Controller 4. Solar Panel 5. DSCA Unit 6. Battery 	<p>we shall support for all items (1,2,3,5,6 and other associated Items), except item no:4 which is not manufactured by us. As this RFP does not include Rack for GP & Block Location, seek your guidance for Rack RFQ. We are expecting TSEC certificate for Rack in few days.</p>	As per Tender
8		4.2	<p>PARTNER shall be willing to enable ITI to manufacture “Uninterrupted Power Supply (UPS) Solution”, through an Agreement, to enable ITI to design, engineer, integrate, manufacture, Market, Sale & Service, provide maintenance of the product. The PARTNER would take responsibility on behalf of ITI to obtain the required Type Approval Certificate as well as all required BIS Certificate.</p>	<p>We agree to support ITI for Complete Built Unit (CBU) & Semi Knock Down (SKD) through an agreement for packages won by ITI/Consortium for Bharatnet Phase III</p>	As per Tender

9		4.4	The Agreement on Uninterrupted Power Supply (UPS) Solution manufacturing will include the hardware/software design, manufacturing, assembly, inspection, testing, quality assurance methods, troubleshooting, supply, Installation and Commissioning if required, servicing/ maintenance during the warranty/post warranty period, training, documentation, design upgrades, system integration if required etc. as per various customer requirements.	We agree to support ITI by sharing the System Drawings and helping ITI in setting up Assembling, Inspection, Quality Testing, Supply & Installing if Required. (Only for CBU & SKD form)	As per Tender requirement
10		4.6	Partner has to support ITI to get the all certificate like Type Approval Certificate from any NABL/International accredited agencies for this device, TEPC certificate, Physical standard like IP68 under Mile standard (MIL-STD) and Mil grade for software / for encryptor and any other certification is required. Partner has to support ITI For Proof of concept (PoC) as per end customer requirement and for winning the opportunity.	We shall support for respective TSEC Certificate as shall be provided by BSNL & TYPE approval test as provided from NABL. Rest are not applicable.	As per Tender requirement
11		4.8	The PARTNER shall ensure the compliance of the offered product as per the Generic technical specifications as per Annexure-V. This is the tentative requirement which may vary as per the specific customer tender requirements.	Specifications mentioned in Annexure-V against tender no: MM/BNO&M/BN-III/T-791/2024 issued on 15.02.2024 is amended as per letter no: BSNLCOMMT/14(11)/3/2024-MMT dated 22.06.2024 (as Amendment 25). In this Amendment Hybrid UPS should	As per tender

				comply to TEC GR: 66160:2024. Li-Ion Battery as per TEC: 67030:2024 GR and Solar Panel as per 66080:2016 TEC GR	
12		4.12	During or after successful technology enablement process, the PARTNER shall also support ITI for the Tenders / Purchase orders of Government, PSUs, Defence and Private customers for the products / services.	We understand RFP TOT is only for packages won by ITI/Consortium for Bharatnet Phase III. As we manufacture Hybrid UPS and Battery including EMS, we are in discussion with other PIAs for the same Project,	As per Tender
13		4.19	Technology enablement for manufacturing and servicing of UPS System shall be on Royalty Model.	We request ITI to accept our Proposal for CBU & SKD form	As per Tender
14		4.2	Technology Transfer process will be completed in the form of Completely Built Unit(CBU), Semi Knock Down (SKD) and Completely Knocked Down(CKD) stages	We request ITI to accept our Proposal for CBU & SKD form	As per Tender

15		5. B. iv	The royalty payment or any other payments towards purchase of any specific items/kits from ToT Partner/sister concern / group concern, shall be made on receipt of payment from the end customer on back to back basis. Request for change in terms will not be entertained at any point of time.	We request ITI to accept "100% supply payment in 30days - LC"	As per Tender
16		5.B. v	The details of Technology for the UPS solution manufacturing along with Gerber data, PCB layouts, schematic diagrams, component sourcing details including arrangement with the PARTNER suppliers, as applicable, through hole details, software and mechanical assembly details etc., are to be provided by the PARTNER to ensure smooth manufacturing and delivery of finished product once the agreement is signed.	We agree to support ITI by sharing the System & Schematic Diagrams (only for CBU & SKD form).	As per Tender
17		5.C.vi	The ToT Partner should be willing to provide PBG to ITI in order to provide commitment towards any technical issues/fault at later stage of I&C, and product Certifications etc.	We shall submit 3% of the supply value	As per tender

18		6.1	<p>In case the Technology Partner is also the supplier, then if the Technology Partner fails to complete the delivery of UPS systems within the time fixed under the contract, any LD imposed by Customer will be passed on to the bidder on a back to back basis.</p>	<p>We request ITI to accept "0.5% per week & max upto 5% for perticular PO delayed quantity only</p>	As per tender
19		6.3	<p>The Contract must be completed not later than the time lines specified in the Contract. Extension will not be given except in exceptional circumstances. Should, however, completion of the Contract is delayed with prior concurrence of ITI, the concurrence will not deprive ITI of its right to recover liquidated damage of 0.5% of the value of the Contract for each of first two weeks of delay or part thereof and 1% of the value of the contract for each subsequent week of delay or part thereof to a maximum of 5% of the contract value. Any LD imposed by the end customer to ITI due to non-performance of the product or non-provision of warranty support, the equivalent LD will be levied on the selected bidder by ITI, except for reasons if only attributable to ITI.</p>	<p>We request ITI to accept "0.5% per week & max upto 5% for perticular PO delayed quantity only</p>	As per tender

20		7.1.1	Running Royalty percentage on the sales price excluding taxes (Royalty should be in the range of 0 % up to 5%)	Requesting ITI to remove this clause, as we agree to support for CBU & SKD form only.	As per Tender
21		7.1.2	Percentage Margin payable to ITI in case of Completely Built Unit(CBU) procurement from Technology partner. CBU Pass through % to ITI (ITI Expecting 15%(+,- upto 3%))	Request ITI to share the complete Billing procedure to claim percentage margin.	As per Tender
22		9.3	Bidder to indemnify ITI LTD from any claims / penalties / statutory charges, liquidated damages, with legal expenses etc as charged by the customer. LD/ Penalties incurred on account of delay in supply, product failure during warranty if any and deficiency in Warranty and AMC services shall be borne by the bidder.	Request ITI to remove this clause	As per Tender

There is no change in the other terms and conditions.

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Annexure for Technical References

Technical specifications as per TEC GR):

S. No.	Type of Material	Technical Specifications
1.	Armored Optical Fibre Cable for underground application. 24F loose tube	TEC GR Standard No.: TEC 85170:2011 Although in this TEC/GR only optical fibre of G.652 D is mentioned but vendor shall have liberty to use G.657A1 also as per ITU-T recommendation. Wet core or semi dry core cable type may be used.
2.	Aerial OF Cable (ADSS Cable): 48/24F ADSS on power lines	TEC GR Standard No.: TEC 85190:2022 (Type-A-I & A-II) with latest amendments if any OFC in packages of J&K and Ladakh will be of type- A-1 Semi dry (with ice loading) and in other packages, type- A-2 Semi dry (without ice loading)
3.	12F/24F Aerial Drop Optical Fibre Cable with Installation Accessories (For Last mile applications)	TEC GR Standard No.: TEC 85200:2022 with latest amendments if any (2005 for LMC).
4.	Armored Optical Fibre Cable for underground application. 48F ribbon	GR under preparation by TEC
5.	Splitters (1:2, 1:4, 1:8, 1:16)	TEC GR Standard No.: TEC 72010:2023 with latest amendments (Type to be used as per site requirement)
6.	SPV Power supply	TEC GR Standard No.: TEC/GR 66080:2016, with latest amendments if any

S. No.	Type of Material	Technical Specifications
7.	Battery	TEC GR Standard No.: TEC 67030:2016 with latest amendments if any a. Lithium-Ion Battery of 2400 VAH to be used.
8.	Patch Cord	TEC GR Standard No.: TEC 87070:2009, with latest amendments if any.
9.	Splice Closure for Optical Fibre Cables	TEC GR Standard No.: TEC 87080:2010 with all amendments if any. Size to be used as per OFC used at site
10.	Fibre Termination Box	TEC GR Standard No.: TEC 87030:2010, with latest amendments if any. Fibre Termination Box Size to be used as per OFC used at site
11.	PLB HDPE Duct	TEC GR Standard No.: TEC 72030:2019 with latest Amendments if any
12.	Installation Accessories and fixtures of Self-Supporting Metal free Optical Fibre Cable	TEC GR Standard No.: TEC 87060:2017, with latest amendments if any
13.	FDMS (Indoor)	TEC GR Standard No.: TEC 87010:2007, with Amendment Dated 02.05.2012 and with latest amendments if any. Fibre termination in GP can be accommodated in a rack used for router and other equipment. 01 No. 48 fibre rack mount shelf to be used for fibre termination as per GR 87010:2017.
14.	FDMS (Outdoor)	TEC GR Standard No.: TEC 87050:2012, with latest amendments if any The No. of trays in case of 48 Fibre ribbon OFC will be 4.

S. No.	Type of Material	Technical Specifications
		No. of sleeves will be 25% extra than the required joints i.e. 20 Nos.
15.	Tension/Suspension Pole Assembly Set	TEC GR Standard No.: TEC 87060:2017, with latest amendments if any
16.	MPLS Router	TEC/GR 48050:2022 with latest amendments if any or
17.	Data Storage Infrastructure	TEC GR Standard No.: TEC 49100:2015, with latest amendments if any
18.	Ethernet electrical to optical media converter	TEC GR Standard No.: TEC 48080:2014, with latest amendments if any
19.	Firewall System / NIPS	TEC GR Standard No.: TEC 49090:2023, with latest amendments if any or NDPP certified TEC GR Standard No. for NIPS:49140:2018, with latest amendments if any or NDCPP certified
20.	Lan Switch	TEC GR Standard No.: TEC 48060:2023, with latest amendments if any or NDPP certified
21.	Layer 4-7 Load Balancer Switch	TEC GR Standard No.: TEC 48090:2015 with latest amendments if any
22.	Network Management System	TEC GR Standard No.: TEC 48100: 2015 with latest amendments, if any
23.	UPS	TEC GR Standard No.: TEC 66140:2019 with latest amendments, if any
24.	Radio Modem in ISM band for UBR	TEC GR Standard No.: TEC 38050:2023, with latest amendment, if any
25.	EMS for UBR	TEC GR Standard No.: TEC 52006:2016, with latest amendments, if any
26.	Fibre Distribution Frames for UBR	TEC GR Standard No.: TEC 87000:2010, with latest amendments, if any

S. No.	Type of Material	Technical Specifications
27.	Packet Microwave Radio Equipment (15, 18 and 23 Ghz) for DMW (Digital Micro Wave)	TEC GR Standard No.: TEC 36090:2022) with latest amendments if any
28.	Millimeter Wave (E-Band) Microwave Equipment for DMW	TEC GR Standard No.: TEC 36060:2022
29.	EMS for DMW	EMS-TEC-SD-IT-EMT-001/01/Mar-16
30.	Electronic Locator System	TEC GR Standard No.: 73070:2014
31.	Lithium Ion Battery for Telecom Applications	TEC GR Standard No.: TEC 67030:2024
32.	Remote Fiber Monitoring System (RFMS)	TEC GR of RFMS (TEC/GR/TX/ RFM-001/02/MAR-15) with latest amendment

Note:

- The technical and functional specifications mentioned in this RFP are mandatory and also supersedes GR for the clauses where there is any change.
- The supply of 48F Armored ribbon type OFC will be as per GR under preparation.
- For UPS the specifications are enclosed in amendment. For eligibility of UPS the bidder shall have TSEC of UPS as per GR no. 66140:2019 or SPV against GR No. 66080:2016.