

File No.- DDG(SplProj)/USOF/DoT/DCC-BH/2020
Comp No. (102206)

Government of India
Ministry of Communication
Digital Bharat Nidhi
Sanchar Bhawan, New Delhi

Date: 27.05.2025

To
All Empanelled Agencies

Subject: Addendum to RFQ No. DDG(SplProj)/USOF/DoT/DCC-BH/2020 dated 17.04.2025 regarding.

Madam/ Sir,

RFQ was issued to empanelled agencies on 17.04.2025 for Third Party Audit of “Pilot project regarding extending BharatNet connectivity up to villages in the State of Bihar executed by M/s CSC-SPV”. In response to this RFQ queries have been raised by the empanelled agencies which have been evaluated and the response to the pre-bid queries is attached as (Annexure- I).

2. In addition, the clause 5.2 (ii) on page 12 of 42 of the RFQ stands deleted.
3. This shall form addendum to RFQ No. DDG(SplProj)/USOF/DoT/DCC-BH/2020 dated 17.04.2025.

(N. K. Oza)

Director (SP-I), DBN

Bidder's Queries and DBN Clarifications thereon:-

Tender	Request for Quotation (RFQ) from the Empanelled Agencies for Third Party Audit of Pilot project regarding extending BharatNet connectivity up to villages in the State of Bihar dated 17.04.2025			
Sl. No.	Page Reference in the RFQ Document	Clause No. in the RFQ	Clarification Sought	DBN Comments
1	page no. 11 of 42 and page no. 12 of 42	<p>Clause no. 2.6 Timelines- " The timelines for physical and electronic verification of the work will be provided in the work order depending on the number of GPs to be visited and Wi-Fi APs/FTTH connections to be verified. The entire verification work is required to be completed within 90 days from the date of issue of work order. Only in exceptional circumstances the timeline would be extended beyond 90 days for a maximum period of 30 days."</p> <p>and</p> <p>Clause 5.4- TPA is to submit the invoices (work order wise) to DBN along with certification of the work done and copy of reports. The invoices after due verification by DBN officials would be processed for payment at DBN office.</p>	<p>a) Will there be a single work order or multiple work orders, and does the 90-day duration apply to the entire project or to each individual work order?</p> <p>b) Kindly clarify if all the site has been installed and are operational.</p>	<p>-As per Clause 2.2</p> <p>-Details will be provided in the Work Order</p>

2	page no. 11 of 42	<p>Clause no. 2.9 - In addition to the aforesaid works, the TPA shall also verify, validate and certify the Wi-Fi APs of different vendors deployed by CSC SPV (one Wi-Fi AP per vendor) to ensure that the APs deployed in field are meeting the specifications as specified in TEC GR. The technical specifications are to be tested as per Annexure-VI, Section VII of RFQ.</p>	<p>With reference to the requirement for verifying, validating, and certifying the Wi-Fi APs (Access Point) deployed by different vendors, kindly clarify whether these APs by different vendors fall within the existing list of GP/village sites provided in the RFP document.</p> <p>If these Wi-Fi APs are indeed additional sites and not part of the current site list, we request that you please provide the specific list of locations where these APs are deployed, along with the expected sample size for certification per vendor.</p>	Within exiting list of GPs
3	page no. 11 of 42	<p>The type of fiber deployed for extending the FTTH connections is also to be verified on sample basis with respect to the specifications as given in the earlier MoU with CSC-SPV for Phase-I GPs, the technical specifications were as per BSNL P.O. No.MM/HR-2019/2F,4F of Drop cable/HCL/2018-19/30 dated 09.01.2019 which were used for FTTH connectivity as drop cable. No separate cost would be paid for these verifications.</p>	<p>With regard to the requirement for verifying the type of fiber deployed for FTTH connections on a sample basis, we request clarification on the following points:</p> <ol style="list-style-type: none"> Sample Size: What will be the sample size that should be followed for conducting this verification? Scope of Verification: Is the scope of this activity limited to identifying and confirming the type of fiber used (e.g., 2F or 4F drop cable), or does it involve a comprehensive third-party assessment (TPA) to ensure full compliance with the detailed technical specifications as specified in BSNL Purchase Order No. MM/HR-2019/2F,4F of Drop Cable/HCL/2018-19/30 dated 09.01.2019? 	One sample of each make and size of Optical Fiber Cable.

4	page no. 12 of 42	Clause no. 5. Payment Schedule	Will the payment to the TPA be linked to the performance of CSC-SPV? Specifically, if certain sites fail to meet the required specifications or operational parameters and TPA submits a non-compliance report, will payment still be released to the TPA. Or payment of TPA be link to correction and retification work of the CSC-SPV and re auditing till the site gets clear?	As per clause -5
5	BoQ	List of Wi-Fi APs and FTTH connections commissioned by CSC SPV	Please provide the tentative list of Sites	Shall be provided along with work order
6	10	Section III, Clause 2.2	The document mentions physical verification of 5% of GPs/Villages. Could you please clarify if this will be done through random sampling or if a stratified sampling method (to ensure district-level representation) should be followed? If stratified, a suggested approach would be appreciated.	As per clause 2.4 (iii)
7	11	Section III, Clause 2.3	Kindly confirm whether access to the NMS/NOC and relevant credentials for electronic verification will be facilitated by DBN or CSC-SPV. Additionally, will remote access to these systems be permitted?	CSC-SPV to provide

8	12	Section III, Clause 2.8	Is there a cap on the number of FTTH connections and APs to be verified per village in electronic verification, or should we assume the entire list from CSC-SPV?	As per clause 2.3.
9	13	Section III, Clause 6.1	Will any penalties be waived in cases where delays are caused due to unavailability of field support or access constraints at the end of CSC-SPV or BBNL?	As per clause 6
10	15	Section IV, Financial Bid Format	The financial format includes electronic verification of 56,086 APs and FTTH nodes. If the actual count differs, please clarify whether the payments will be adjusted proportionately based on actuals.	Note (4) of page 17 of 42 of the RFQ Refers
11	18	Section V, Clause 5	Are there any prescribed protocols or formats for data security, storage, or audit logs that the TPA must follow while handling sensitive data during the verification process?	As per Provision in RFQ/Agreement
12	33	Annexure VI	For verifying compliance of Wi-Fi APs to TEC GR specifications, will DBN or CSC-SPV make sample units from each vendor available to the TPA, or is the TPA expected to coordinate this independently?	CSC-SPV shall provide the sample units for testing.

13	24	SECTION-VII Annexures ANNEXURE-I	As per format of physical verification "A. Access Point Location Details" AP Mac-id to be captured. Is TPA will be provided devices login details for access in advance along with list of GPs	CSC-SPV to provide.
14	25	ANNEXURE- IA Customer verification form (FTTH)	as per point 07, "Aadhar No. of the user" to be collected while Under the DPDP Act, collecting Aadhaar numbers or related data is permissible only with explicit consent from the individual and for legitimate purposes. Department May clarify this.	To be collected with subscriber's consent. However, if same is not provided then appropriate remarks may be given.
15	'Page No: 13	Section-III Clause No. 2 - Scope of Work Sub-Clause No. 2.3: Electronic Verification	<p>We request the authority to kindly clarify the specific location from where the electronic verification of 100% of Wi-Fi Access Points and FTTH connections is to be conducted by the Third-Party Auditor (TPA).</p> <p>Additionally, we seek clarification regarding the integration of the CSC platform with the NMS system, specifically whether this integration will be available and accessible for verification by the TPA.</p> <p>Furthermore, we request information on the current availability status of the NMS/NOC system through which the TPA is expected to carry out the electronic verification activities.</p>	<p>(i) Will be provided along with the work order.</p> <p>(ii) Not linked to BSNL/ BBNL NOC</p> <p>(iii) CSC-SPV to provide details</p>

16	Page No: 13	Section-III Clause No. 2 - Scope of Work Sub-Clause No. 2.9	<p>We request the authority to Please confirm on the methodology for the verification of technical specification of Wi-Fi Access Points.</p> <p>Also, please confirm on the methodology for the verification of technical specification of Fiber and its sampling size.</p> <p>Further, please confirm on the technical specification for Security of the System & technical specifications for Intrusion Detection and Prevention for the System and its availability and deployment.</p>	<p>(i) Test plan attached as (Annexure- QA)</p> <p>(ii) One sample of each make and size of Optical Fiber Cable.</p> <p>(iii) As per Annexure- VI</p>
17	Page No: 14	Section-III Clause No. 5 - Payment Schedule Sub-Clause No. 5.1	<p>We request the authority to make payment on milestone based i.e., payment shall be released on completion of every 200 Gram Panchayats in case of physical verification and on completion of every 2,000 nodes in case of electronics verification.</p> <p>This will help and support in maintaining cash flows</p>	As per Clause-5 , Section-III
18	Page No: 15	Section-III Clause No. 8 - Resource Deployment	We request the authority to kindly clarify the specific location from which the senior official of the TPA is to be deployed for day-to-day coordination with DBN, especially in the context where the TPA does not	New Delhi

			<p>have an existing office in the locations of Bihar State.</p> <p>This clarification will help in planning and mobilizing appropriate resources in alignment with the work order requirements.</p>	
19	Page No: 26	<p>Section-VII Annexure-I B. Ap Status</p> <p>Note: M/s CSC SPV will provide complete inventory details as at table A above (S.no 1 to 10) to DBN.</p>	<p>We request the authority to please specify the timeline within which CSC-SPV will provide the inventory details of Wi-Fi APs and FTTH connections, as required for both physical and electronic verifications.</p>	<p>Details shall be made available along with work order</p>
20	Page No. 6	<p>Clause -2.1, Sectlon-II</p>	<p>1. The documents to be submitted along with financial proposal should be as per the eligibility criteria given in EOI - No: 30-415/2019-USOF(T) dated 20.04.2021 given on page No. 6 point 2.1 or only the documents given in RFQ only.</p> <p>2. Full form of LMC .</p>	<p>1. Page No. 6 point 2.1 refers to Empanelment of TPA agencies.</p> <p>2. Last Mile Connectivity</p>

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Annexure-QA

AT Plan

**Acceptance Testing Plan
For
CSC SPV Wi-Fi**

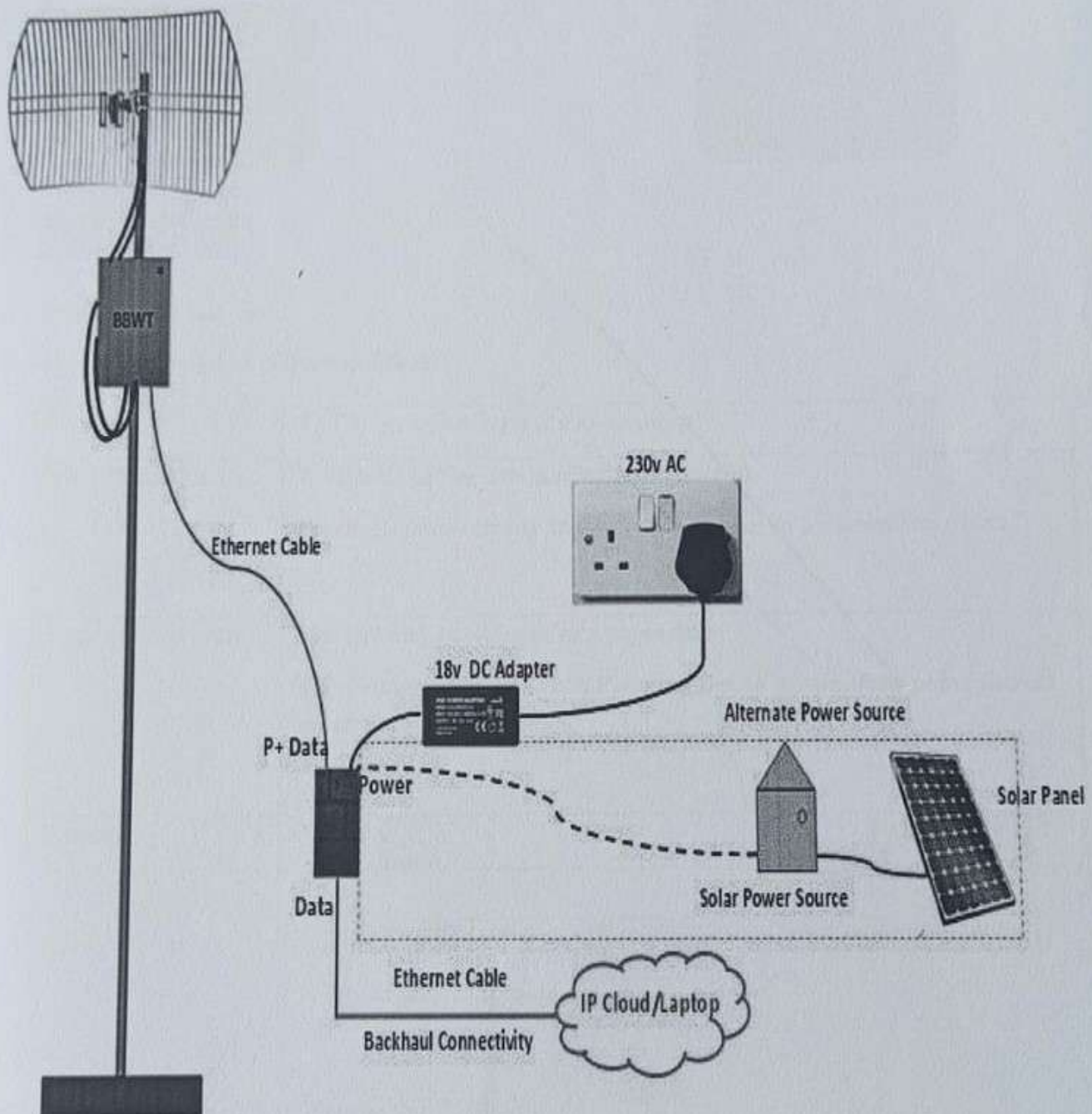
TABLE OF CONTENTS

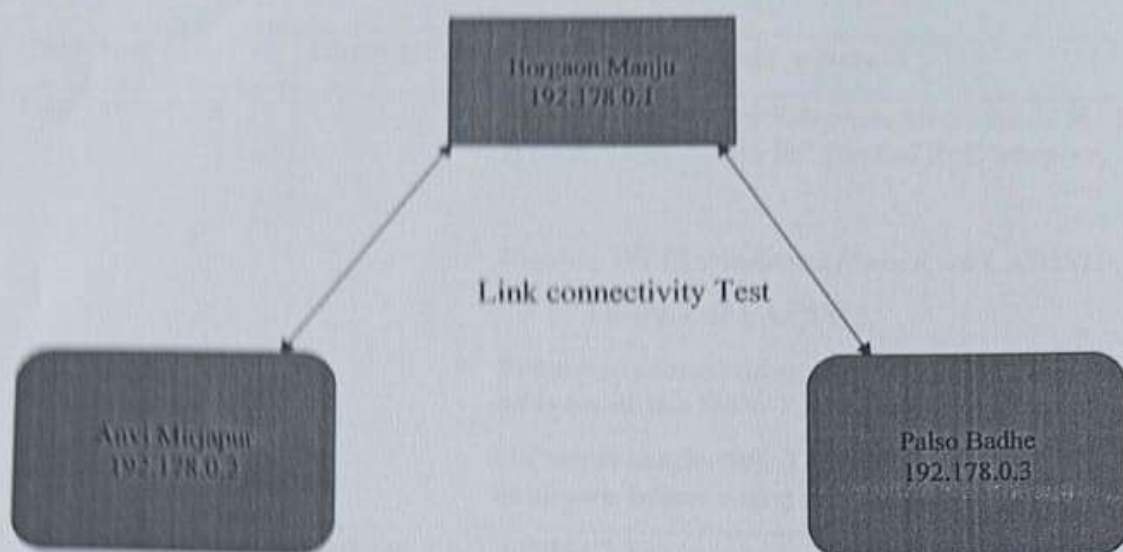
1. Introduction	6
1.1 Objective and background	6
1.2 Scope of the validation plan	6
1.3 Test Setup	7
2. TEST CASES (Wi-Fi)	08
2.1 Pre-Power on Test	08
2.2 System Ping TestError! Bookmark not defined.08	
2.3 Remote end connectivity testing	09
2.4 Through put measurement P2P	09
2.5 Error! Bookmark not defined.P2P Hotspot	10
2.6 Hotspot coverage testing	10
2.7 Hotspot through put testing	11
3.1 Test Cases of Customer Management	12

1.2 Scope of the validation plan

The test cases described in this document are for acceptance testing of Wi-Fi setup. With this document test case we are going to test the Point to Point and Hotspot mode of Wi-Fi setup.

2 Set-up diagram





3. AT Test Cases

3.1 WANL_1.1 Tests cases

Test case ID: 3.1- Pre-Power On test

Objective	To Check cable laying, Power supply
Test Procedure	Verify all cables are laid with properties To check connectivity from power source to termination point.
Expected Results	The cabling shall be as per procedure The voltage drop between Power plant to destination point should be ≤ 1.0 V
Results	Passed <input type="checkbox"/> Failed <input type="checkbox"/>

Test case ID: 3.2- Post Power On test

Objective	Login to Wi-Fi equipment through ethernet
Test Procedure	<p>Connect the laptop Ethernet interface to the BBWT system using "Data in" port of PoE adapter.</p> <p>Disable Wi-Fi wireless network on LAPTOP.</p> <p>Set IP address of LAPTOP</p> <p>From the command prompt window Ping the IP address of the BBWT system</p> <p>If Ping is successful, Telnet in to the BBWT system as shown below using the command prompt</p>
Expected Results	Login to wi-fi GUI/ CLI.
Results	Passed <input type="checkbox"/> Failed <input type="checkbox"/>

Test case ID: 3.3- Remote End Connectivity Test

Objective	Remote end connectivity
Test Procedure	<p>Connect laptop to one end of the radio link with ethernet cable.</p> <p>Ping to other end equipment management ip.</p>
Expected Results	Ping should be through
Results	Passed <input type="checkbox"/> Failed <input type="checkbox"/>

Test case ID: 3.4- Throughput Measurement

Objective	Throughput Measurement
Test Procedure	Connect Laptop at both end of link. Open Jperf/iperf in Laptop-1 (Server) and laptop-2(client) Run the command or open the jperf GUI
Expected Results	See the result in GUI, Radio Card to Card speed upto 100Mbps.
Results	Passed <input type="checkbox"/> Failed <input type="checkbox"/>

Test case ID: 3.5- Through put testing P2P Hotspot

Objective	Through put testing P2P Hotspot
Test Procedure	Connect Laptop at both end of link. Open Jperf/iperf in Laptop-1 (Server) and laptop-2(client) Run the command or open the jperf GUI
Expected Results	See the result in GUI, Speed should be upto to 50 Mbps.
Results	Passed <input type="checkbox"/> Failed <input type="checkbox"/>

Test case ID: 3.6- Hotspot coverage testing

Objective	Hotspot coverage testing
Test Procedure	Connect the Wi-Fi checker/ UE device with appropriate SSID and credentials Check the connectivity with SSID upto 100 meter in LOS.
Expected Results	Browsing the internet is possible with speed 1 Mbps.
Results	Passed <input type="checkbox"/> Failed <input type="checkbox"/>

Test case ID: 3.7- Hotspot through put testing

Objective	Hotspot through put testing
Test Procedure	Connect the Wi-Fi checker/ UE device with appropriate SSID and credentials Check the speed Download and Upload
Expected Results	Download and Upload speed should be in limit which is set in user profile. Speed Limit is upto 2 Mbps.
Results	Passed <input type="checkbox"/> Failed <input type="checkbox"/>

Test case ID: 3.8- Customer Registration

Objective	PM-WANI Setup Customer Management
Test Procedure	Downloaded C-WANI App from play store/ App store. Provide the customer details and complete the m-KYC. Login with generated credentials
Expected Results	Customer will created/registred successfully and Login will allow.
Results	Passed <input type="checkbox"/> Failed <input type="checkbox"/>

Test case ID: 3.9- Customer Login and use of service

Objective	PM-WANI Setup Customer Management
Test Procedure	Open App on Customer Premises (Mobile, Pre downloaded with C-WANI App). Login with generated credentials Select the Wani-compliance SSID Connect with selected SSID Go to payment option (Optional)
Expected Results	Download and Upload speed should be in limit which is set in user profile. Speed Limit is upto 2 Mbps.
Results	Passed <input type="checkbox"/> Failed <input type="checkbox"/>