

Date of Survey: **25/02/2025**

Survey Location (Address): **BSNL Exchange and office, Faizabad Rd, Sector 5, Indra Nagar, Lucknow, Uttar Pradesh 226016**

Survey Conducted for (Purpose/Project Name): **SNOC UP (E) for BharatNet Phase III (RFP No_MM/BNO&M/BN-III/T-791/2024)**

Building Name & Floor No.: **Telephone exchange Block_1st floor**

Site Area (Sqft): **3073**

Point of Contact (Client/Building Management): Mr Ranjan DGM operation & Mr Sanjay DGM planning

1. SITE ACCESSIBILITY & INFRASTRUCTURE READINESS

S. No.	Action to be Checked	Field Input
1	Location Coordinates (Lat & Long and elevation)	Lat - 26.873657 Long - 80.983803 Elevation - 124.47 +- 1meter
2	Location of the site in the building (Floor No., Room No.)	1st floor
3	Dimensions of the allocated SNOC space (L × W × H)	22.27m × 12.82m × 3.58m (LxWxH) The floor-to-ceiling height is 4.25m, and the floor-to-beam height is 3.58m.
4	Accessibility for transport of materials (Lift availability, Stairs, No. of Main doors)	No passenger and service lifts available 1 Staircase 1 Main door_Building
5	Existing built-up structures or services that may need removal/repair before setup	<ul style="list-style-type: none"> - Dismantling and removal of clips, nails, threads, and patching holes from flooring. - Extraction of threaded rods and clips from the ceiling. - Dismantling and removal of AC ducts. - Sealing and closing AC duct cutouts and cabling holes. - Restoration and repair of flooring, walls, ceilings, beams, and pillars to original condition.

6	Structural soundness and scope for future scalability	<ul style="list-style-type: none"> - The structure is compliant for SNOC (Smart Network Operations Center) use. - Designed to support future scalability in terms of manpower, equipment, and seating capacity.
7	Floor load capacity (minimum 600 kg/m ² recommended)	<ul style="list-style-type: none"> - Previously used as an EWSD switch room, ensuring adequate load capacity for SNOC operations. - Note: "Floor load capacity documents to be obtained from BSNL for verification and supporting records."

2. POWER & ELECTRICAL REQUIREMENTS

S. No.	Action to be Checked	Field Input
8	Assessment of available raw power supply and transformer load capacity (in KVA)	<ul style="list-style-type: none"> - Out of the total 300 KVA, 125 KVA is currently utilized by BSNL, leaving 175 KVA available. - An 11 KV HT room is present. - The existing AC raw power panel, located adjacent to the allocated SNOC, includes extra cabling that can be repurposed. - Subject to an AC insulation test, these cables—previously used for the switch room and AHU of the dismantled package AC unit—can be reused. - If reused, these cables will carry both DG (Diesel Generator) power and raw power from the COA (Change Over Assembly) unit.

<p>9</p>	<p>Backup power solutions (DG Set, UPS, Redundancy setup)</p> <ul style="list-style-type: none"> - AMF panel setup - Cable routing path - Space availability 	<ul style="list-style-type: none"> - BSNL's indoor DG set is available for SNOC use, provided that maintenance and fuel costs are borne by the SNOC provider. - Three outdoor blank DG beds (7 ft × 15 ft each) are available for SNOC use. - The existing AC cable routing path is currently unused but may be dismantled, necessitating a new cable routing path. - Suggested new cable routing path: <ul style="list-style-type: none"> • Underground duct to carry HT cable from the DG set to the Change Over Assembly (COA) area building. • Wall and ceiling clamping trays to route cables from the COA area to the Change Over Assembly unit.
<p>10</p>	<p>Provision for mobile DG if required</p> <ul style="list-style-type: none"> - Check for access path - Location 	<ul style="list-style-type: none"> - Sufficient space is available beside the DG beds for vehicle-mounted mobile DG placement and movement. - The area allows for easy access and maneuverability of mobile DG units as needed.
<p>11</p>	<p>Earthing plan and availability of a lightning arrester on the building</p> <ul style="list-style-type: none"> - AC - Lightning arrester 	<ul style="list-style-type: none"> - Lightning arrester is available on the building. - Outdoor AC earthing installations are required. - AC earthing must be placed 10 feet apart to ensure they are not within the Earth Potential Rise (EPR) zone. - AC earth cable will follow the same path as AC cables from the DG set to the COA unit.
<p>12</p>	<p>Availability of separate power cabling for critical and non-critical equipment in the equipment room</p>	<p>Shall be planned internally for SNOC distribution.</p>
<p>13</p>	<p>Surge protection measures</p>	<p>Surge protection measures are within SMPS and UPS.</p>

3. NETWORK & FIBER CONNECTIVITY

S. No.	Action to be Checked	Field Input
14	Fiber entry and exit points in the mini data center (equipment room)	<ul style="list-style-type: none"> - The existing FDMS room of BSNL is located adjacent to the SNOC room. - Three pre-existing openings in the SNOC room can be utilized to facilitate SNOC requirements. - Opening locations are captured in photos and the same will be shown in the drawings and 3D representation.
15	Fiber redundancy - Two different entry paths checked? (If block is colocated)	<ul style="list-style-type: none"> - The three existing openings will be utilized for the fiber redundancy path. - Fibre redundancy is already available, ensuring an increase in fault resiliency.
16	Proximity to network hubs and key infrastructure (dimensions and cable length)	<ul style="list-style-type: none"> - It is adjacent to the SNOC room, ensuring easy accessibility. - The approximate cable length required is 20 meters.
17	Cable management provisions (Ducts, Cable trays, Raceways) Spare storage area and location	<ul style="list-style-type: none"> - Not available and shall be planned accordingly.

4. SECURITY & ENVIRONMENTAL FACTORS

S. No.	Action to be Checked	Field Input
--------	----------------------	-------------

18	Review of security measures at the SNOC site	<ul style="list-style-type: none"> - Security guard is available, and both main doors and internal doors are equipped with keys and locks. - Surveillance for the NOC is currently not available and shall be planned for installation.
19	Access control and surveillance requirements	- Shall be Planned.as per SNOC setup.
20	Fire safety and fire suppression system availability - Type - Allocated space	<ul style="list-style-type: none"> - Shall be planned as part of the SNOC setup. - Space for the requirement shall be considered within the SNOC itself.
21	Proximity to high-risk areas (e.g., petrol pumps, chemical plants)	<ul style="list-style-type: none"> - The petrol pump is located 300 meters away. - There are no chemical or critical services in the surrounding area.
22	Nearest Hospital with Ambulance/ Nursing Home Details/Medical Aid Details	<ul style="list-style-type: none"> - Hospital _ Shekhar Hospital, Indiranagar Lucknow (0522-4927272) - Shalimar Hospital, Indiranagar Lucknow (0522-2310185) - Satya Hospital, Indiranagar Lucknow - (09415181426)
23	3 _ Nearest Fire station details	<ul style="list-style-type: none"> - Fire Station Indiranagar, Lucknow (09454418650) - Fire Station Lalbagh, Lucknow (09454418642) - Fire Station Hazratganj, Lucknow
24	Dampness, rodent entry, white ant infestation risks	- Shall be Planned.
25	Environmental risks (flood zone, earthquake-prone area, etc.)	- Zone factor of 0.16 for Seismic Zone 3
26	Disaster recovery and emergency response planning	- 1 emergency exit staircase is available beside the main staircase

5. HVAC & ENVIRONMENT CONTROL

S. No.	Action to be Checked	Field Input
27	HVAC system availability and cooling capacity Identify Dark corners wit the space	- Shall be planned
28	Required cooling per rack/system	- Shall be planned as the rack will be placed in the SNOC considering as per cool air flow gradient.
29	Ventilation and airflow assessment	- Appropriate ventilation is available through three windows, each measuring 2.5 feet by 4 feet.
30	Humidity control measures	- Shall be planned with HVAC system
31	Noise level assessment and mitigation plan (Isolation from server and equipment rooms)	- Shall be planned , with necessary measures to control DG set noise levels . - Equipment noise control for SNOC and Mini Data Center shall be strategically planned.

6. INTERIOR INFRASTRUCTURE & LAYOUT CHECK

S. No.	Action to be Checked	Field Input
32	Proposed seating layout (Engineers, Operators, SNOC head, etc.)	- The video wall can be positioned on the west wall for optimal visibility.
33	Position of video wall (Viewing direction, Size) Availability of maintenance space	- Operator seats can be arranged facing the video wall on the west wall to ensure an efficient monitoring setup.
34	Placement of mini-data center (Server Racks, Power Access)	<ul style="list-style-type: none"> - An equipment room can be located behind/beside the video wall, with separate access in the northwest corner. - A power room can be placed behind/beside the video wall, with separate access in the southwest corner.
35	Conference Room / Viewing Gallery area plan	<ul style="list-style-type: none"> - The conference room is best placed in the southeast corner for accessibility and optimal space utilization. - A viewing gallery can be planned near the north wall of the SNOC for better visibility and observation.
36	Locker area allocation	- A Locker room can be planned near the north wall of the SNOC for better visibility and observation .
37	Entry and exit access points	- The northeast corner of the SNOC.
38	Provision of washrooms/canteen facility	Available
39	Fire escape routes and emergency exits	Available and 50 meters from the northeast entry of the SNOC

7. MISCELLANEOUS CHECKS

S. No.	Action to be Checked	Field Input
40	Coordinators details BSNL	<ul style="list-style-type: none"> - Mr Ranjan DGM operation - 9415211211 - Mr Sanjay DGM planning - 9450925914
41	Availability of first aid kit and emergency medical support	<ul style="list-style-type: none"> - Shall be planned for SNOC
42	Availability of parking space for maintenance vehicles	Yes
43	Noise and vibration levels affecting the work environment	There are no factories, site construction, or other services in the vicinity that could cause noise disturbances.
44	Access control policies for external vendors and visitors	Shall be planned for SNOC as exclusive entrance will be provided for SNOC
45	Pre-installed false ceilings, partitions, or structures? (Quantity and dimension to be put if we are to remove)	None
46	Presence of debris or obstructions?	Some obstructions are present, and the BSNL block team is in the process of clearing them before handover.
47	Clearance required for installation. (For RFC, RFI, RFE, RFS (sNOC integration with CNOC integration))	<ul style="list-style-type: none"> - Coordinator details have been shared, ensuring smooth communication. - Respective documentation will be carried out as per milestone requirements.
48	Availability of necessary documentation (Design approvals, Compliance reports)	<ul style="list-style-type: none"> - Site agreement is currently under process. - Design approval and commissioning will commence after the site agreement is finalized.

8. DOCUMENTATION & FINAL CHECKS

S. No.	Action to be Checked	Field Input
49	Ownership Status (Owned/Leased/Rented)	- Post agreement, the FRAC (Fair Rent Approval Committee) rent quotient will be prepared and approved with BSNL.
50	Regulatory and compliance clearances	<ul style="list-style-type: none"> - Post DG installation, clearance will be obtained from the Central Pollution Control Board (CPCB). - Fire suppression system NoC to be taken.
51	Final site recommendations and reinforcement requirements	<ul style="list-style-type: none"> - Indiranagar BSNL Telecom Exchange office Lucknow as final site. - No reinforcement required

Prepared by _ Mr Abhishek

Site Visit by _ Mr Chanchal Chakraborty, Mr Abhishek, and Mr Rahul Ranjan.

Approving Authority

Name:

Designation:

Date:



1 - BSNL TELEPHONE EXCHANGE, LUCKNOW



2 - SNOC ENTRY POINT



3 - SNOC ENTRY POINT



4 - SNOC ENTRANCE



5 - SNOC ENTRANCE



6 - SNOC ENTRANCE



7 - SNOC



8 - SNOC



9 - SNOC



10 - SNOC



11 - SNOC



12 - SNOC



13 - SNOC



14 - METER ROOM



15 - BSNL DG ROOM



16 - BSNL DG ROOM



17 - BSNL DG ROOM



18 - DG PLINTH