

**उत्तर क्षेत्रीय विद्युत समिति**  
**NORTHERN REGIONAL POWER COMMITTEE**  
**ADDITIONAL AGENDA**  
**FOR**  
**42<sup>nd</sup> MEETING OF TECHNICAL COORDINATION SUB-COMMITTEE**  
**&**  
**45<sup>th</sup> MEETING OF NORTHERN REGIONAL POWER COMMITTEE**

**B. OPERATIONAL ISSUES**

**B.36 Communication connectivity for Shifting of Terminal Server (NRLDC, SCADA) at Site (Agenda by POWERGRID)**

B.36.1 At present fibre connectivity has been established for NRLDC/NLDC through DTL transmission lines for reporting of telemetry & PMU data and connectivity of ICCP, PDC, video conferencing and VOIP/speech data. At present data is reporting through two following links:

- a) OPGW on 220kV Badarpur-Mehrauli line via Tughlakabad and 66kV Mehrauli-Vasant Kunj then underground OFC cable up to NRLDC and
- b) Maharaniabagh to Lodhi Road to NRLDC via AIIMS (underground OFC).

B.36.2 Recently, OPGW was flashover on 16.04.2019 (0030hrs) between Mehrauli-Tughlakabad link due to clearance issue after reconductoring of line and underground fibre was also cut on 16.04.2019 (23:57hrs) near AIIMS, resulting outage of 70 sub-station telemetry data along with complete outage in PMU data for 10-11 hours.

B.36.3 For smooth grid operation and 100% data availability at NRLDC and NLDC, following new OPGW/OFC links need to be installed to ensure communication availability as per Communication Regulation'2017.

Sl. No.	Link Name	Length	OPGW	Constituent Name	Purpose
1	220kV Mehrauli – Vasant Kunj	6.4 Kms	48F OPGW	Central Sector	for NRLDC Redundancy (existing link is on 66 kV line (DISCOM line), 66kv lines being shifted to underground XLPE Cable.

2	220KV Okhla - Tughlakabad	6.8 Kms	48F OPGW	Central Sector	for Mehrauli - Badarpur link Protection for NRLDC redundancy
3	220KV Tughlakabad – R K Puram (New DTL transmission line to be constructed)	Approx. 20 Kms	48F OPGW	Central Sector	
4	220kv Bamnauli-Mehrauli via DAIL	16Kms	48F OPGW	Central Sector	for Mehrauli - Badarpur link Protection for NRLDC redundancy
5	220kv Bamnauli-Pappankala-I	8.47 Kms	48F OPGW	Central Sector	for redundancy of Dwarka area data
6	220kv Mandola - Wazirabad – Ckt- I & II	15 Kms	48F OPGW	Central Sector	for DTL SLDC redundancy
7	220kv IP Power – RPH (Rajghat)	1.8 Kms	48F OPGW	DTL	DTL requirement for redundancy
8	Underground OFC cable laying in Delhi area for NRLDC & NLDC Protection 1.Okhla to NRLDC - 13 Kms 2.Mehrauli to NRLDC - 8 Kms 3.R K Puram to NRLDC - 4 Kms	<b>(Approx. 25 Kms)</b>	48F OPGW	Central Sector	For NRLDC/NLDC Redundancy in Delhi area

B.36.4 The scheme shall be implemented by POWERGRID under Reliable Communication Scheme on tariff route basis and investment to be recovered as per CERC notification as per earlier approval in NRPC meetings.

***Members may deliberate the above links for consideration of approval for redundancy of communication network in Delhi area for availability of data at NRLDC and NLDC.***