

**JOINT ELECTRICITY REGULATORY COMMISSION  
FOR THE STATE OF GOA AND UNION TERRITORIES  
GURGAON**

Quorum  
Smt. Neerja Mathur, Member  
**Petition No. 220/2016**  
**Date of Hearing: 17.01.2017**  
**Date of Order: 13.02.2017**

**In the matter of:**

Petition for seeking Approval of Capital Expenditure for Rough Cost Estimate for Conversion of existing overhead HT/LT lines into underground system and replacement / augmentation of equipments of 11 KV/1/D S/Stns., including Street Light System in Sector 8, UT Chandigarh.

**And in the matter of:**

Electricity Department, Chandigarh

.... **Petitioner**

**Present**

**For the Petitioner**

1. Shri Surinder Kumar, Asstt .Executive Engineer
2. Shri Upendra Mishra, Standing Counsel,
3. Shri Neeraj Kumar, A.A.E.

**ORDER**

The Petitioner through this Petition has sought approval of the capital expenditure of Rs 1789.74 lacs for conversion of existing overhead HT/LT lines to the underground system and replacement / augmentation of equipments of 11 kV I/D S/Stns., including Street Light System at Sector – 8, Chandigarh as a Pilot Project.

The Petitioner explained the features of the said scheme and submitted that Chandigarh has been selected as one of the Fast Track Cities under the Smart Cities Mission of the Ministry of Urban Development, Government of India. Therefore, it has been decided that the existing overhead HT/LT Lines as well as the related infrastructure of 11 kV I/D S/Stns. and below works be made underground in Sector – 8 under this Pilot Project. The electricity infrastructure Sector – 8 is about 4 to 5 decades old and has many old trees which threaten the breakdown / power interruption in case of thunderstorms / heavy rains. This in turn affects the reliability of power supply. After observing the performance of this proposed Pilot Project, this scheme shall be replicated in other parts of Chandigarh in a phased manner.

The Petitioner further submitted that the said scheme shall cost about Rs 1635.89 lacs which shall be chargeable to head 4801 (Plan) and to be borne by CED, to be recovered from the tariffs in future. An amount of Rs 153.86 lacs shall be spent for laying of the LED Street Light underground System shall also be borne by the Chandigarh Administration and will not be recovered from the tariff. The total cost of the scheme would be Rs 1789.74 lacs.

The brief scope of work covered under the said scheme is as under:-

<b>Sl. No.</b>	<b>Description</b>	<b>Amount (Rs in crores)</b>
1.	11 kV Works comprising of replacement/augmentation of 11 kV indoor Sub stations, providing CSS, 11 kV cables and RMUs, etc.	6,78,31,908.20
2.	Providing LT cables / service cables.	8,16,67,360.00
3.	Providing street lighting with LED fittings on V-4, V-5, V-6 roads	1,53,86,081.00
4.	Dismantlement of existing O/H LD system including street lighting including labour charges	1,40,336.00
5.	Contingency as per CPWD works Manual @ 3%	52,84,480.00
6.	Service Tax on S/E items @ 6% and Service Tax @ 15% on the labour charges	88,71,746.80
	<b>Grand Total</b>	<b>17,89,74,997.00</b>

The Petitioner further submitted that the said scheme would facilitate the following:-

- (i) With the installation of new distribution transformer with high energy efficiency levels, the distribution losses will be reduced.
- (ii) After conversion of the 11 kV O/H line with 3x300 mm<sup>2</sup> 11 kV cable, the outage on 11 kV side will be very less.
- (iii) With the conversion of LT O/H line into U/G cabling system the impact of heavy rain / thunderstorm on the power supply will be negligible and reliability of power supply will increase.
- (iv) With the augmentation of power distribution system, the load growth of next 5 years will be regulated smoothly.
- (v) The voltage profile, continuity and reliability of supply will be ensured to the residents of the area which will further meet with the standards of performance notified by the Commission.

The Petitioner further submitted that the said scheme has been considered and recommended by the Standing Finance Committee under the Chairmanship of Advisor to the Administrator, Chandigarh; however, the approval by the Administrator, Chandigarh is awaited.

The Commission has examined the records placed before it in this Petition and is of the view that the new system will provide higher reliability of power supply and at the same time due to energy efficiency of new distribution transformers, the losses will also reduce, and hence beneficial to both the consumers and the Distribution Licensee.

Accordingly, keeping in view the importance of the said Mission, the Commission grants an in-principle approval to the scheme subject to the approval of the Administration, Chandigarh after their perusal for some component as grant offered by the Ministry of Urban Development, Government of India in this Project.

Ordered accordingly.

**Sd/-**  
**(NEERJA MATHUR)**  
**MEMBER**