

**भारतसरकार**  
**उत्तरक्षेत्रीयविद्युतसमिति**  
**18-ए.श.जीतसिंहमार्ग, कटवारियासराय,**  
**नईदिल्ली- 110016**  
**Government of India**  
**Northern Regional Power Committee**  
**18-A, S. Jeet Singh Marg, Katwaria Sarai,**  
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NRPC/OPR/105/09/2015/

दिनांक:19.2.2015

To

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3. Director (Operation), DTL, New Delhi-110002, (Fax-011-23232721)
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6. Director (Technical), HVPNL, Panchkula-134109, (Fax-0172-2585266)
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13. Managing Director, Adani Power Ltd. (Fax - 0124-2555342, 2555113)

**Subject: Meeting on “Replacement of Porcelain Insulators with Polymer/ Anti-fog Insulators and Cleaning of Porcelain Insulators in Northern Region”**

A meeting on the above subject was held with the utilities of Northern Region on 4<sup>th</sup> February 2015. Summary Record of the meeting is enclosed herewith. Copy of the same is also available on website of NRPC (www.nrpc.gov.in).

Encl: As above

Sd/  
(Ajay Talegaonkar)  
SE (Operations)

Copy to GM, NRLDC

**Summary Record of Discussions in the meeting on “Replacement of Porcelain Insulators with Polymer/ Anti-fog Insulators and Cleaning of Porcelain Insulators in Northern Region” held on 04.02.2015 at NRPC, New Delhi**

List of Participants is enclosed as **Annex – I**.

SE(O), NRPC welcomed the participants and requested all the utilities to expedite the work of replacement & cleaning of insulators. He requested constituents to submit the status on fortnightly basis as on 1<sup>st</sup> and 15<sup>th</sup> day of every month in the prescribed format. He expressed concern over non-participation of RVPNL in the meeting.

2. SE(O), NRPC stated that some constituents were submitting the information but not in the prescribed format, which makes it difficult for the NRPC Secretariat to compile the data. He mentioned that about 15 transmission lines in Jodhpur, Akal, Barmer and Giral area had tripped on 15<sup>th</sup> January, to fog, leading to loss of substantial load and generation. NRPC Secretariat had already requested RVPNL to carry out the cleaning of insulators in and around the affected areas and also consider the replacement of porcelain insulators with Polymer/Antifog insulators. However, since no representative of RVPNL was present in the meeting, their level of preparedness could not be ascertained. It was decided that NRPC secretariat would take up the issue with RVPNL.

3. Representative of PSTCL informed that about 75% of cleaning planned on critical lines had been completed and the remaining work would be completed by March 2015. SE (O), NRPC requested PSTCL to expedite the work and complete the cleaning of porcelain insulators. It was also informed by PSTCL that the procurement process was on for replacement of insulators on 45 no transmission lines under Stage-IV. The work of replacement was likely to be completed by March 2015.

4. Representative of POWERGRID informed that cleaning of insulators has been completed on all the identified lines. He also informed that overall progress of replacement of porcelain insulators in all the four stages was 92.78% (stage-II: 83.30%, stage-IV: 94.78%)

5. Representative of HVPNL stated that overall progress of replacement of porcelain insulators in three stages was 74% (stage-I: 89%, stage-II: 58%, stage III: 0%). He submitted that inspection of material for further replacement has been done and supply was expected in February 2015. SE (O), NRPC expressed concern at the

slow progress of cleaning of insulators and replacement of insulators in Haryana and requested to speed up the work.

6. Representative of BBMB stated that 100% cleaning has been done on identified lines and overall progress of replacement of porcelain insulators was 91%(stage-I: 90.5%,stage-II: 94%).Representative of BBMB informed that in some stretches of BBMB network Antifog insulators were used.SE(O), NRPC stated that Antifog insulators are also prone to the fog related tripping. He added that it was decided in a meeting taken by Chairperson CEA on 30.04.2008 that in NCR area, only polymer insulators should be used in place of porcelain insulators. It was decided that in due course BBMB would consider replacing the Antifog insulators with Polymer in the areas prone to fog related tripping. BBMB also informed that in the stretches where polymer insulators are installed, fog related tripping have been shifted to nearby sub-stations and same have been observed at Panipat, Samaypur, Narela and Rohtak Road sub-stations. It was decided that BBMB should replace conventional insulators with polymer at these sub-stations and also in any other sub-station where fog related tripping are observed.

7. Representative of DTL informed that in respect of replacement of insulators for 220 kV lines, technical bids were under evaluation stage. SE(O), NRPC expressed concern over the slow progress. He requested DTL to take measures so that the replacement work is over well before next winter. DTL informed that cleaning related work had already been completed on identified stretches

8. S.E. (O), NRPC requested the representatives of DTL, UPPTCL and Adani Power Ltd.to update and submit the status of replacement & cleaning of insulators strictly in the format devised by NRPC.

9. NRLDC requested utilities to submit detailed information regarding the locations/stretch of lines where Polymer Insulators have been installed. He stated that this information has been sought several times in the past and same is still awaited.

9. SE(O), NRPC stated that for effective monitoring of fog related trippings, NRPC Secretariat has devised and circulated a format to submit the details of trappingswithin 24 hours to NRLDC and NRPC.Very few tripping were reported by the utilities to NRPC and NRLDC.A list of trippings suspected to be due to fog, has been compiled by NRPC Secretariat based on reports submitted by STUs as well as

available on NRLDC website. The same is available at NRPC website. He requested utilities to confirm whether or not these trippings were fog related and submit the details to NRPC Secretariat.

Summary of Overall progress of replacement of Porcelain Insulators by Polymer / Antifog Insulators is enclosed as **Annex-II**.

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Meeting on “Replacement of Porcelain Insulators with Polymer/ Anti-fog Insulators Insulators in Northern Region”held on 04.02.2015 at NRPC, New Delhi and Cleaning of Porcelain					
List of Participants					
Sl. No.	Name	Designation	Organisation	Phone/ Mobile	e-mail id
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14	Ajay Talegaonkar	SE(O)	NRPC		
15	Gopinadhan Pillai	EE			
16	Naresh Kumar	EE			
17	SukhvinderKumar	Addl.SE			

Summary of Replacement of Porcelain Insulators by Polymer / Antifog Insulators										
	Stage-I (Lines identified after grid incidence on 8th March 2008)		Stage-II (Lines identified after grid incidence on 2nd January 2010)		Stage-III(Identified critical lines on their own)		Stage-IV(Identified critical lines on their own)			Status as on
Utility	Lines Identified (Nos)	Progress of Replacement of Insulator String (%)	Lines Identified (Nos)	Progress of Replacement of Insulator String (%)	Lines Identified (Nos)	Progress of Replacement of Insulator String (%)	Lines Identified (Nos)	Progress of Replacement of Insulator String (%)	Overall Progress %	
HVPNL	27	89	23	58	Nil	-	6	Inspection of material has been done and supply is expected in Feb.2015.	74	31.01.2015
POWERGRID	49	100	39	83.3	12	100	10	94.78	92.78	22.01.2015
BBMB	30	90.47	5	94.21	Nil				91	31.01.2015
DTL	6	100	18	-	Nil	-			26	220 kV lines identified. Tender for procurement opened. Delivery expected by March '15.(status as on 31.01.2015)
UPPTCL	17	100	35	95	59	91			94	31.01.2015
PSTCL	20	100	35	100	22	100	45	To be completed by March '15	100	31.01.2015
POWERLINK	1	100	-	-	Nil	-			100	Work Completed
RVPNL	2	100	-	-	Nil	-			100	Work Completed
North Central Railways	-	-	-	-	-	-			100	1126 Insulator strings replaced
Northern Railways	2	100	-	-	Nil	-			100	28.10.2014
Adani Power Ltd.	-	-	-	-	2	88			88	31.01.2015







