

RTI application

Date: July 1, 2021

Shri Jasbir Singh  
Ch. General Manager (CP)  
Central Public Information Officer  
Corporate centre  
Power Grid Corporation of India Limited (PGCIL)  
Saudamini Plot no.2, Sector 29,  
Gurgaon-122001(HR)

Sub: Request to furnish information under section 6(1) of the Right to Information Act, 2005

Sir,

Power Grid Corporation of India Limited (in short, allow me to use PGCIL) is a highly respected and well-known power utility. It is also heartening to read from PGCIL's sustainability report: [https://www.powergridindia.com/sites/default/files/POWERGRID\\_Sustainability\\_Report\\_2017\\_19.pdf](https://www.powergridindia.com/sites/default/files/POWERGRID_Sustainability_Report_2017_19.pdf) and noted that you follow the ESPP - Environmental and Social Policy & Procedures.

Ministry of Environment, Forest and Climate Change, GOI, New Delhi strongly advocate and recommend that every user and producer of plastic should adopt effective and improved collection, segregation, processing, treatment, and disposal of the plastic waste in an environmentally sound manner thereby, reducing the plastic waste generation and its impact on the environment.

you are requested to furnish the following information with documents regarding the above provision of the RTI Act concerning your corporate procurement of composite long insulators (also known as silicon rubber insulators) for electricity transmission through overhead lines

1. Procurement of Composite Long Rod Polymer Insulators by PGCIL - furnish data in the table (Table A and B) as per the format enclosed with this application.
2. Supply each kind of drawing corresponding to KN wise (90, 120, 160, 210 and 400KN ) for each KV ( AC and DC type) lines 132, 220, 400 , 500, 765 and 800 as the case may be.;
3. Procurement of Composite Long Rod Polymer Insulators by PGCIL - furnish data in the table (Table C) as per the format enclosed with this application.
4. Statement on the Replaced Composite Long Rod Polymer Insulators during the last ten (10) years from various Transmission lines of all regions of Power Grid Corporation of India Limited (PGCIL). Please furnish data in the table (Table D and E) as per the format enclosed with this application.
5. Provide technical specification of polymer (composite material) and silicon used for making insulator. Also, provide equivalent India standard or plastic standard to which the material conforms.
6. Provide the data as per table F and G on the wastage due to breakage or failure or redundancy/obsolete inventory.
7. Provide a list of hazardous content present in Composite Long Rod Polymer Insulators.
8. Are polymer and fiberglass rods used in the manufacture of insulators being embedded part Biodegradable?
9. Provide usage life (age) of Composite Long Rod Polymer Insulators per your purchase specifications with relevant technical specifications.
10. Is this product, once installed on the line, can be re-used, or it needs to be replaced by a new unit for maintenance of electrical properties?
11. Can this product be classified as a Single-use plastic/electrical item for electrical lines?
12. Whether the insulators specified and purchased by PGCIL have plastic wrapping cover?

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as per discussion with ESMD.

- AM 13. What kind of wrapping plastic do you use and specify? Provide the specification
- AM 14. Furnish the specification of wrapping plastic like GSM and will that be classified as single use plastic item?
- AM 15. What would be a total waste in K. Gs wrapping plastic generated by PGCIL on procured insulators as per the quantity in the enclosed Tables?
- AM 16. How has PGCIL handled the waste generated under point 15?
- AM 17. Provide PGCIL disposal Methodology of waste material of polymer Insulator.
- " 18. Provide disposal Methodology of glass fiberglass rod as the central strengthening and holding material.
- " 19. Has PGCIL implemented any waste management and handling of composite insulators?
- " 20. What steps has PGCIL taken to safeguard the environment from plastic and glass waste generated from the above products?
- " 21. Provide details of stores and locations of scrap Composite Long Rod Polymer Insulators
- " 22. Provide contact details such as an address, e-mail address, numbers of the designated officer responsible for handling waste of composite insulator at corporate, regional, and site.
- " 23. Can PGCIL provide the data and information as to how the waste has been handled so far?
- AM 24. An estimate that Plastic waste PGCIL would generate at the end of the product life cycle of insulators and how you are prepared to handle such waste in future.
- AM 25. Provide any two typical agreement between PGCIL and scrap dealers or recyclers, and Disposal Facility of the waste generated due to polymer insulators.
- ESMD / AM 26. Whether PGCIL considers that above kind of insulators (Polymers or plastic with fiberglass) material and the associated waste generated out of breakage or Obsolete inventory or failed units generating its waste after its usage will be harmful and adversely impact on the environment?
- ESMD / AM 27. As the user of the above kind of polymer-based engineering product, can Power Grid take responsibility for disposing of such waste under the E.S.G.?
- ESMD / AM 28. Will Power Grid recommend that such product disposal be covered under Extended Producers' Responsibility on manufacturers like in the case of E-waste?
- ESMD / AM 29. Is the above product substitutable by any other sustainable, environmentally friendly alternative product?

If any information is not available in your office, kindly forward it to the concerned public authority as per section 6(3) of the R.T.I. Act, 2005 with an intimation to the applicant.

I am a citizen of India, and the address is given below. Requisite RTI application Fee for Rs.50/- is being remitted vide Indian Postal Order/I.P.O No.96G 66081 dated 17/3/2021 is enclosed).

Yours sincerely,



(Dayabhai Ranchhoddas Parmar)  
Postal Address: 6150/6, Santushti Apartment,  
Sector-D, Pocket-6, Vasant Kunj,  
New Delhi - 110070

Encl.: a/a



Table A

Composite Long Rod Polymer Insulators (or Silicon Rubber Insulators) for electrical lines		Total Procured quantity as direct purchase by Power Grid Corporation of India Limited for its own consumption (Quantity – Nos comprising of all types of insulators considering all KN strength corresponding to each voltage level case in first column )					
Voltage level	Average Net Weight (kg)/Insulator	Length(m)/unit	FY 2020-21	FY-2019-20	FY 2018-19	FY 2017-18	FY 2016-17
132 KV AC							
220 KV AC							
400 KV AC							
500 KV DC							
765 KV AC							
800KV DC							
<b>TOTAL</b>							
<b>Indigenously Produced</b>							
<b>Imported</b>							
<b>HSN Code</b>							

Provide below the names of the indigenous manufacturers and their factory locations

Table B

Composite Long Rod Polymer Insulators (or Silicon rubber insulators) for electrical lines			Total Procured quantity as direct purchaser for PowerGrid's consumption (Quantity – Nos comprising of all types of insulators considering all – KN strength)					
Voltage level	Average Net Weight (kg)/Insulator	Length(m)/unit	FY 2015-16	FY 2014-15	FY 2013-14	FY 2012-13	FY 2011-12	
132 KV AC								
220 KV AC								
400 KV AC								
500 KV DC								
765 KV AC								
800KV DC								
<b>TOTAL</b>								
<b>Indigenously Produced</b>								
<b>Imported</b>								

Table C

Composite Long Rod Polymer Insulators (or Silicon rubber insulators) for electrical lines			Expected (projected) quantity to be procured as direct purchaser (Quantity – Nos comprising of all types of insulators considering all KN strength) for individual voltage					
Voltage level	Average Net Weight (kg)/Insulator	Length(m)/unit	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	
132 KV AC								
220 KV AC								
400 KV AC								
500 KV DC								
765 KV AC								
800KV DC								
<b>TOTAL</b>								
Indigenously Produced								
Imported								

Table D

Composite Long Rod Polymer Insulators (or Silicon rubber insulators) for electrical lines		REPLACED quantity as a consultant for purchase for other utilities (Quantity – Nos comprising of all types of insulators—for all KN strength- for all voltages )						
Voltage level	Average Net Weight (kg)/Insulator	Length(m)/unit	FY 2020-21	FY-2019-20	FY 2018-19	FY 2017-18	FY 2016-17	
132 KV AC								
220 KV AC								
400 KV AC								
500 KV DC								
765 KV AC								
800KV DC								
<b>TOTAL</b>								
Indigenously Produced								
Imported								

Table E

Composite Long Rod Polymer Insulators (or Silicon rubber insulators) for electrical lines		REPLACED quantity as a consultant for purchase for other utilities (Quantity – Nos comprising of all types of insulators– comprising of all KN strength for all voltage lines )						
Voltage level	Average Net Weight (kg)/Insulator	Length(m)/unit	FY 2015-16	FY 2014-15	FY 2013-14	FY 2012-13	FY 2011-12	
132 KV AC								
220 KV AC								
400 KV AC								
500 KV DC								
765 KV AC								
800KV DC								
<b>TOTAL</b>								
Indigenously Produced								
Imported								

Table F

Composite Long Rod Polymer Insulators (or Silicon rubber insulators) for electrical lines			Total No. of wastage due to brakeage or failure or redundancy kept in store (Quantity – Nos comprising of all types of insulators considering for all KN strength for all corresponding KV )				
Voltage level	Average Net Weight (kg)/Insulator	Length(m)/unit	FY 2020-21	FY-2019-20	FY 2018-19	FY 2017-18	FY 2016-17
132 KV AC							
220 KV AC							
400 KV AC							
500 KV DC							
765 KV AC							
800KV DC							
<b>TOTAL</b>							
Indigenously Produced							
Imported							

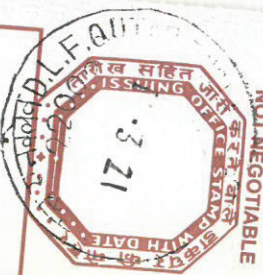


Table G

Composite Long Rod Polymer Insulators for electrical lines			Total No. of wastage due to brakeage or failure or redundancy (Quantity – Nos comprising of all types of insulators– all KN strength for all voltages )					
Voltage level	Average Net Weight (kg)/Insulator	Length(m)/unit	FY 2015-16	FY 2014-15	FY 2013-14	FY 2012-13	FY 2011-12	
132 KV AC								
220 KV AC								
400 KV AC								
500 KV DC								
765 KV AC								
800KV DC								
<b>TOTAL</b>								
Indigenously Produced								
Imported								



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डाक टिकट  
POSTAGE STAMPS

भारतीय पोस्टल ऑर्डर  
INDIAN POSTAL ORDER

PAY TO A/c OFFICER G. G. M.

Power Grid Corporation of India Ltd.

₹ 50



AT THE POST OFFICE AT

GURUGRAM

के डाकघर में अदा करें।



कमीशन COMMISSION ₹ 5 RUPEES

SENDER MAY FILL IN HIS NAME AND ADDRESS HERE.

D.R. PARMAR

150/6 Sec D Pocket 6

Vasait Kalyan NDLW 10003

वैधता - जारी करने के महीने के अंतिम दिन से 24 महीने और खतिव कमीशन के भुगतान करने वाले के महीने की अंतिम दिन से 36 महीने।  
Validity - 24 months from the last day of the month of issue and 36 months from the last date of the month of issue on payment of second commission.  
इस लाइन के नीचे सा लिखें DO NOT WRITE BELOW THIS LINE

पोस्ट मास्टर  
POSTMASTER  
15/3/2021

96G 166081