



पावर ग्रिड कार्पोरेशन ऑफ इंडिया लिमिटेड

(भारत सरकार का उद्यम)

POWER GRID CORPORATION OF INDIA LIMITED

(A Government of India Enterprise)



पावरग्रिड

केन्द्रीय कार्यालय : "सौदामिनी" प्लॉट सं. 2, सैक्टर-29, गुडगाँव-122 001, हरियाणा

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संदर्भ संख्या/Ref. Number

CIN: L40101DL1989GOI1038121

संदर्भ / Ref: C-ENG/Tr. Core/KDKL/BSG/TT/AUG/01

दिनांक / Date: 10.08.2016

सेवा में /To M/s KEC International Limited

Bldg No. 9A, 8th Floor, DLF Cyber City, Phase-III, Gurgaon, Haryana-122002 (INDIA)

Kind Attn: Mr. A.K Gupta, Sr. Manager

विषय / Sub: GIS Package- GIS1 for (i) 220/66KV Drass (New) GIS (ii) 220/66KV Kargil (New) GIS and GIS Package2 for (i) 220/66KV Leh (New) GIS (ii) 220/66KV Khalsti (New) GIS & (iii) extension of 66/11KV Khalsti (RGGVY) Substation under Consultancy Project of Power Development Department, J&K

Type Test approval of 252kV/1250A & 72.5kV/800A RIP Bushings – M/s Izolyator, Russia Make

Ref: a) KEC letter ref NOA-556 TO 559/KEC/ENGG-332 dated 11.07.2016 &
b) Toshiba email dated 09/08/2016 vide which balance type test reports submitted

Dear Sir,

Please refer to your aforesaid referred letter & email regarding the submission of type test reports on above subject bushings. The type test were carried out at M/s Izolyator and M/s VEI, Russia in line with IEC 60137-2008 and witnessed by POWERGRID.

a) 72.5kV/800A RIP Bushing

Sr. No	Test Description as per IEC 60137-2008 On 72.5kV/800A RIP Bushing Drawing/GTP No. 686351.611 Type:TCSIV-90-72.5/800 Bushing Sr. No. n-71009	TEST REPORT	Remarks
01	Wet power frequency voltage withstand test.	VEI Report No.:11020-021-2016	Found generally in order
02	Dry lightning impulse voltage withstand test.	Izolyator Report No. 342	
03	Temperature Rise Test	Izolyator Report No. 342	
04	Verification of Thermal Short Time current withstand	Izolyator Report No. 342	
05	Cantilever Load withstand Test	Izolyator Report No. 342	
06	Verification of Dimension	Izolyator Report No. 342	
07	Routine Tests	Izolyator Report No. 342	
08	Special Tests		
a	Dry Power frequency voltage withstand test on insulator	Izolyator Report No. 343	
b	wet Power frequency voltage withstand test on insulator	VEI Report: 11020-022-2016	
c	Dry Lightning Impulse voltage withstand test on Bushing	Izolyator Report No. 343	

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b) 252kV/1250A RIP Bushing

Sr. No	Test Description as per IEC 60137-2008 on 252kV/1250A RIP Bushing Drawing/GTP No. 686353.612 Type:TCSIV-90-252/1250 Bushing Sr. No. n-71004	TEST REPORT	Remarks
01	Wet power frequency voltage withstand test.	Refer Note	Found generally in order
02	Long Duration Power Frequency voltage withstand test (ACLD)	Izolyator Report No 341	
03	Dry lightning impulse voltage withstand test.	Izolyator Report No 341	
04	Dry & wet switching impulse voltage withstand test.	Izolyator Report No 341 & Refer Note	
05	Temperature Rise Test	Refer Note	
06	Electromagnetic compatibility test	Izolyator Report No 341	
07	Verification of Thermal Short Time current withstand	Izolyator Report No 341	
08	Cantilever Load withstand Test	Izolyator Report No 341	
09	Verification of Dimension	Izolyator Report No 341	
10	Routine Tests	Izolyator Report No 341	
11	Special Tests		
a	Dry Power frequency voltage withstand test on insulator	Izolyator Report No 343	
b	Wet Power frequency voltage withstand test on insulator	VEI Report No 11020-023-2016	
c	Dry lightning impulse voltage withstand test on insulator	Izolyator Report No 343	
d	Dry switching impulse voltage withstand test on insulator	Izolyator Report No 343	
e	wet switching impulse voltage withstand test on insulator	VEI Report No 11020-023-2016	

Note:

Approval of Temperature rise test, Wet power-frequency and Wet switching impulse test were extended vide POWERGRID letter ref: C-ENG/Tr. Core/IZOLYATOR/BSG/245-2000/TT/FEB/01 dated 08.02.2016

With these the requirement of type test on above subject bushings under subject contracts is completed.

Thanking you.

Yours truly,

(P K DAS)
DGM (Engg-S/s)