

# Field Service Report



Transmission & Distribution  
High Voltage Switchgear

ISN JOB No.			
Customer	<b>JPTL</b>	Project Code/ T@IS No.	
Equipment Owner	<b>MSETCL</b>	Site	<b>400 KV KARAD S/S.</b>
Name of GE's Engineer	MANISH SOLANKI		
Date and Time of Leaving HQ	11.12.2018		
Date and Time of Reaching Site	12.12.2018		
Date and Time of Leaving Site	13.12.2018		
Equipment Sl. No.(s)	Type	YOM:	
<b>160618-160619</b>	<b>GL316 (FK3-4)</b>	<b>2009</b>	

## Details of Workdone :

GE representative reported site on 12.12.2018 and following activities has been carried out during visit.

\*TIMING,CRM,DCRM result of above mentioned sr. no. both breakers has been taken by MSETCL in presence of GE Engineer & following observation found.

1)DCRM results of Both Breakers R-Y-B phase are not OK, some spikes are observed in the signature & the value of dynamic contact resistance is Very high.

This is due to erosion of contacts & it might be possible that contacts are having several pitting on their surfaces.

Contacts pitting are caused by clearing of faulty interruption by Line Circuit Breaker during it service life,

Lots of bounces are observed in R1 & Y1& B1 phases. Bounces in open operation is not acceptable.

**1. CRM Results:** - CRM Value also measured same has been abnormal in All the phases.

**Conclusion:** Contacts of All the Breakers to be physically inspected after dismantling of Breakers. R phase of both breakers Head assembly/ interrupting chamber is not advisable to continue in service and it can be replaced with spare head assembly or change the current carrying contacts after conditional assessment to be done at site.

**SF6 Gas purity test is pending from your end, it is mandatory, please provide results of the same.**

\* Both breakers are Clear faulty operation intrusion by Line & DCRM signature is abnormal & CRM results also high so that GE Engineer recommended to overhauling(Poles & Mechanism) of above Both breakers.

**Recommendation-** GE Engineer recommended spare for overhauling of breaker in annexure-A, same spare needs to be procured by Jaigad Power Transco Ltd ,GE Will submit the offer shortly.

## Customer Detail:

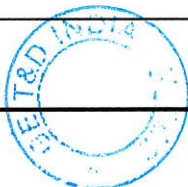
Customer Name	Vaibhav Sansare	Designation	Asst Manager
e-mail	vaibhav.sansare@jsw.in		
Mobile No.	9552577122	Fax No.	
Site Address			

Pin Code:

Signature of GE's Engineer

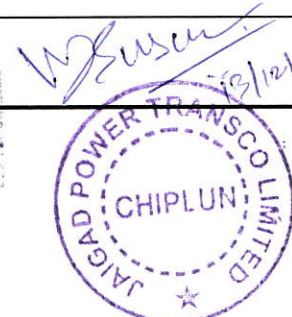
Signature of MSETCL's  
Engineer with Seal

Signature of JPTL's Engineer with Seal



*Manish Solanki*  
12.12.18

*Manish Solanki*  
Addl. Executive Engineer  
400 K.V.R.S. Testing,  
M. S. E. T. C. L., Karad



# Field Service Report



Transmission & Distribution  
High Voltage Switchgear

ISN JOB No.	<b>ISN 18092</b>		
Customer	<b>JAIGAD POWER TRANSCO LTD</b>	Project Code/ T@IS No.	5427PP2999
Equipment Owner	MSETCL	Site	400 KV NEW KOYNA S/S.
Name of GE's Engineer	MANISH SOLANKI		
Date and Time of Leaving HQ	14.12.2018		
Date and Time of Reaching Site	14.12.2018		
Date and Time of Leaving Site	15.12.2018		
Equipment SI. No.(s)	Type	YOM:	
160620-160621	GL316 (FK3-4)	2009	

## Details of Workdone :

GE representative reported site on 14.12.2018 and following activities has been carried out during visit.

\*TIMING,CRM,DCRM result of above mentioned sr. no. both breakers has been taken by MSETCL in presence of GE Engineer & following observation found.

- 1)DCRM results of Both Breakers R-Y-B phase are not OK, some spikes are observed in the signature & the value of dynamic contact resistance is Very high.

This is due to erosion of contacts & it might be possible that contacts are having several pitting on their surfaces.

Contacts pitting are caused by clearing of faulty interruption by Line Circuit Breaker during it service life,

Lots of bounces are observed in R1 & Y1& B1 phases. Bounces in open operation is not acceptable.

**1. CRM Results:** - CRM Value also measured and found little high.

**Conclusion:** Contacts of All the Breakers to be physically inspected after dismantling of Breakers. R phase of both breakers Head assembly/ interrupting chamber is not advisable to continue in service and it can be replaced with spare head assembly or change the current carrying contacts after conditional assessment to be done at site.


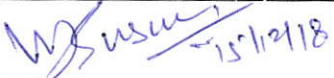
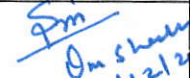
**SF6 Gas purity test is pending from your end, it is mandatory, please provide results of the same.**

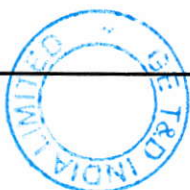
\* Both breakers are Clear faulty operation intrusion by Line & DCRM signature is abnormal & CRM results also high so that GE Engineer recommended to overhauling(Poles & Mechanism) of above Both breakers.

**Recommendation-** GE Engineer recommended for spare for overhauling of breaker in annexure-A,same spare needs to be procured by Jaigad Power Transco Ltd,GE Will submit the offer shortly.

MSETCL requested to JPTL kindly replace faulty cable of density monitor of breaker & Procured Sf6 Gas Filling kit for Areva/Alstom/Gemake breaker which is available at 400 KV new Koyna S/s. MSETCL.

## Customer Detail:

Customer Name	Vaibhav Sansare	Designation	Asst. Manager
e-mail	vaibhav.Sansare@jsw.in		
Mobile No.	9552577122	Fax No.	
Site Address	400 KV New koyna s/s. ,MSETCL,CHIPLUN		
		Pin Code:	415605
Signature of GE's Engineer	Signature of JPTL'S Engineer with Seal	MSETCL	
 15-12-18	 15/12/18	 15/12/2018 Manish Solanki	





Ankit Saha &lt;ankit.saha@jsw.in&gt;

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**Fwd: Regarding sparking of 'A' isolator of 400KV Jaigad 1 & 'B' isolator of 400KV Jaigad 2 at 400KV R.S.New Koyna.**

6 messages

**Vaibhav Sansare** <vaibhav.sansare@jsw.in>

Sat, Jun 8, 2019 at 11:30 AM

To: Ankit Saha &lt;ankit.saha@jsw.in&gt;, Prashant Saxena &lt;prashant.saxena@jsw.in&gt;

Cc: Manish Killekar &lt;manish.killekar@jsw.in&gt;, Anand Vaidya &lt;anand.vaidya@jsw.in&gt;

Sir,

FYI...

----- Forwarded message -----

From: **Mahendra Katenge** <ee3140@mahatransco.in>

Date: Sat 8 Jun, 2019, 11:10 AM

Subject: Regarding sparking of 'A' isolator of 400KV Jaigad 1 &amp; 'B' isolator of 400KV Jaigad 2 at 400KV R.S.New Koyna.

To: Vaibhav Sansare &lt;vaibhav.sansare@jsw.in&gt;

Cc: Manoj Madane &lt;adee3141@mahatransco.in&gt;

Dear Sir,

in connection with above subject, it is to inform you that sparking at 29A isolator of 400KV Jaigad 1 & 29B isolator of 400KV Jaigad 2 observed near hanger assembly due to loosening of tension of spring and overhauling and servicing required. Isolators are made by Siemens and having s.no. A0016-1-5F1, A0016-1-5M, A0016-1-5F2 for Jaigad 2 and A0016-1-1F1, A0016-1-1M, A0016-1-1F2 for Jaigad 1. Hence it is requested to look into the matter and make necessary arrangements to sort the problem.

Thanks &amp; Regards,

Mahendra S. Katenge  
Executive Engineer,  
400 kV RS O&M Division, New Koyna.

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**Vaibhav Sansare** <vaibhav.sansare@jsw.in>

Tue, Jul 16, 2019 at 2:07 PM

To: Manoj Madane &lt;adee3141@mahatransco.in&gt;, Mahendra Katenge &lt;ee3140@mahatransco.in&gt;

Cc: Ankit Saha &lt;ankit.saha@jsw.in&gt;, Prashant Saxena &lt;prashant.saxena@jsw.in&gt;, Anand Vaidya &lt;anand.vaidya@jsw.in&gt;

Dear Sir,

Please confirm suitable date for site inspection by service engineer & deciding further line of action. Outage may require to inspect actual operations on both isolators. This is for your kind information & necessary action.

Regards,

**Vaibhav Sansare** | Assistant Manager-Transmission |

Jaigad Power Transco Ltd | 1st Floor Jeevan Jyothi Complex |

Off Mumbai-Goa NH-66 | Shivaji Nagar | Chiplun-415605 |

Maharashtra | India | M +91 9552577122 | D 2355 253460

[vaibhav.sansare@jsw.in](mailto:vaibhav.sansare@jsw.in) , [www.jsw.in](http://www.jsw.in)