



## APPLICATION NOTE

### SWG 12 CABLE FAULT LOCATOR

### Northern Railway Ambala Division



Client: Northern Railway

Project Name: End Use

#### Requirement:

Northern Railway requires checking installed power cables & locating faults on upto 11 KV.

#### Solution:

Northern Railway uses new generation SWG 12 Power Cable Fault Locator to locate faults leaving no harmful impact on cables.

**Requirement:**

**Northern Railway requires checking installed power cables & locating faults on upto 11 KV.**

They require modern power fault locating equipment helps in quickly locate cable faults without leaving any harmful impact on power cables.

**Solution:**

**Northern Railway uses new generation SWG 12 power fault locator to locate faults leaving no harmful impact on cables**

Previously Northern Railway was using primitive high pressure voltage thumping method to locate power cables fault that usually turns damaging & reducing life of power cables, resulting in higher cost of new cables to be procured & installed which was otherwise avoidable.

Hence, keeping the health of power cables in mind, they opt for using our new generation SWG series cable fault location system which has a number of high voltage method options such as ARM, ICE, Decay including Burn mode to allow localise power cable faults with no impact on the health of the power cable, ensuring continued return on investment on power cables deployed.





The SWG12 provides 3 surge voltage ranges of 3, 6 and 12 kV respectively allowing the lowest voltage to be applied to the cable depending on voltage breakdown detected.

At the Ambala / Saharanpur division, the need was felt for the equipment to be available to allow quickly locate power cable faults which were otherwise undetectable due to non-availability of equipment. Ambala being a junction with large number of power cables , the requirement for an 11kV cable fault locating system based on specifications of latest high voltage locating equipment was specified in a work contract floated by Dy CEE Moradabad with consignee being the SSE Ambala.



Training was conducted at Saharanpur for a period of 2 days in which 5 existing cable faults were located within the 2 days of training.



The above is a testament of how the Indian railways by way of procurement of the SWG12 11kV Cable fault locator can locate faults & restore for reuse its existing power cable assets, with the possibility to save crores of rupees every per annum basis (based on mitigating the need to procure & install new cables) at each division location based on a one-time investment.



## Satisfactory Performance Report

Sr. No: DNS/9092/1

Date 09/09/2021

|                          |                                      |
|--------------------------|--------------------------------------|
| Customer/Company Name    | Northern Railway Saharanpur (Ambala) |
| Equipment's Demonstrated | SWG-12 with accessories.             |
| Location/Address         | Saharanpur Railway Station.          |

Purpose

|                 |                                                                   |
|-----------------|-------------------------------------------------------------------|
| a. Presale Demo | <input checked="" type="checkbox"/> b. Aftersales Demo & Training |
|-----------------|-------------------------------------------------------------------|

ACL/STANLAY Demo Team:

a. Devki Nandan Sharma b. Mayank Khandedwal c. \_\_\_\_\_

| Customer Representative/s | Designation | Mobile No. |
|---------------------------|-------------|------------|
|                           | SSE         |            |
|                           | SSE         |            |
|                           | J.E.        |            |

Customer comments: Successful Demo & Training has been conducted at Saharanpur Railway - SSE Power NR. Various type of fault detected during Training. Total 5 No. faults has been detected.

Satisfied of fault locator with the performance and helpful to locate the cable fault.

This is to confirm that above representative of ACL/Stanlay have given us satisfactory demonstration /Training of the above mentioned equipment's and the equipment is working satisfactory.

Customer Authorized Signatory  
With seal of Devki Nandan Sharma (Sign)  
2020 21/09/2021  
SR. SEC. ENGG. (ELECTRICAL)  
NR (SSE)

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