

**Minutes of Meeting held between M/s Promac Engineering Industries Ltd, M/s L&T Electrical & Automation and M/s S&S Power switchgear Equipment Ltd at CES, 1X125MW, Thermal Power Plant, Sendou, Dakar on 08.03.2018.**

P.O No:- LOI: LT/ESE/MUM/LOI/002 Dated: 08.10.2016 (B/w M/s L&T Electrical & Automation and M/s. S&S Power switchgear Equipment Ltd)

Ref: WO NO: 16/10/D/W/2875 dt. 12.10.2016

**Members Present:-**

**M/s. PEIL**

Mr. R. Venkataraman (VP)  
Mr. C.S. Ananda Venkatesh  
(Sr.Manager)

**M/s. L&T**

Mr. Paramathma Prasad  
(Site Engineer)

**M/s. S&S PSE Ltd**

Mr. B. Prakash  
(Service Engineer)

**Purpose of Visit:** Supervision of Alignment of 245kV, 2000A, Double Break Isolators.

Representative from M/s S&S Engineer Mr. Prakash arrived at site on 25.01.2018. He has been working at site from 25.01.2018 to 08.03.2018.

The following works has been carried out during his presence at site in presence of M/s Promac & M/s L&T representatives.

**245kV Alignment checking:** Out of 23 sets of Isolators, 22 sets of Isolators aligned, 8 sets of Isolators with Double Earth, 7 sets of Isolators with single Earth and 7 sets of Isolators without Earth has been checked & found Ok. As Bay No:208-89C Isolator erection is incomplete due to requirement of Rotor shaft and moving blade of B'Phase (which was damaged during conductor stringing at GT1 bay) alignment not done.

**Completed Isolators:** 201-89A,201-89B,202-89A,202-89B,202-89C,203-89A,203-89B,203-89C,204-89A, 204-89B 204-89C,205-89A,205-89B,205-89C,206-89A,206-89B,206-89C,207-89A,207-89B,207-89C,208-89A,208-89B.

**Completed Earth Switches:** : 201-89EA1,201-89EA2,201-89EB1,201-89EB2,202-89EA,202-89EC1,202-89EC2,203-89EA,203-89EC1,203-89EC2,204-89EA, 204-89EC1, 204-89EC2,205-89EA,205-89EC1,205-89EC2,206-89EA,206-89EC1,206-89EC2,207-89EA,207-89EC1,207-89EC2,208-89EA.

**Rectification Works Done:-**

- 1) MGB Box of Double earth switch isolators were already erected as per L&T SLD which was not matching the S&S GA drawing. M/s S&S Engineer observed and same was rectified as per S&S

GA drawing. MGB name plate interchange from E1 to E2 to match the L&T SLD and issues was rectified. But M/s.Promac has request to M/S S&S has to revise the drawing as per L&T SLD for the specific all line bays (203-89C, 205-89C, 206-89C, 207-89C & 208-89C) the same to be submitted at the earliest.

- 2) Terminal connector & Earth Fixed contact pad were fixed in front side of Main fixed Contact and the same was observed by M/s S&S Engineer & rectified as per S&S drawing for the following Bays (201-89B, 202-89B, 203-89C, 203-89A, 204-89A, 205-89C, 207-89C).
- 3) Isolators moving blade position wrongly erected with respect to rotor shaft tandem lever & same was observed by M/s S&S Engineer and rectified for the following bays. (203-89C 1pole, 202-89B 2poles, 204-89B 2poles, 206-89B 2poles)

**Alignment Checking of Isolators 245kV, 2000A Double break with & without Earth Switch.**

Before M/s S&S Engineer reached at CES site, all the Isolators Erection completed by M/s Promac and M/s S&S Engineer done the alignments. For the alignment of all Isolators terminal connector hardware's (which was connected with IPS pipes) were need to be loosened. After completion of final alignment re-tightened terminal connector hardware's, same verified by M/s Promac & M/s L&T.

- a) Alignment checks of isolators and Earth switches by Manual operation with Mechanical interlock was completed by 20.02.2018
- b) Electrical operation along with interlocks checks were completed by 28.02.2018.
- c) After complete alignment of all the above Isolators & Earth switch checked both in Local and manual mode along with M/s Promac and M/s L&T representative and found operation ok.
- d) During Electrical operation of single and double earth switch isolator structure shaking is observed. M/s.L&T has to be suggested for fixing angles between pole supports to strengthen the structure between pole to pole to eliminate shaken during Earth switch operation. And the following Bays grouting is under progress – (204-89A, 204-89C, 205-89A, 205-89B, 206-89C, 206-89B, 208-89A, 208-89B, 208-89C)
- f) During conductor stringing erection , the conductor is fall down to the B'phase of the isolator (202-89C) so one rotor shaft (Double earth switch) and moving blade of a isolator got damaged which was informed to M/s.L&T for replacement. Missing Earth Push pipe -1no,Missing mechanism box operating handle -3nos and one set of damaged top & bottom isolator stack(one noticed during unpacking & one while erecting, also to be replaced for erecting in 208-89C.

M/S. PEIL 

  
M/S.L&T

 08.03.18  
M/S. S&S PSE Ltd