

Minutes of Meeting

Workshop on “Amorphous Metal Distribution Transformer Repairing”

M/s, Hitachi Metals India has organized a workshop on dated 9th Aug. 2017 at old MD office conference hall and MTRU workshop Indore on the subject “Amorphous Metal Distribution Transformer Repairing”

Meeting Conducted by Hitachi Metals India Ltd In association with Shirdi Sai Electricals , Nucon Power & Switchgear , Trinity Transformers Sikandrabad.

The Participants From –

MPPKVCL, Indore, MPPMCL, Bhopal, East DISCOM Jabalpur Participants	DTR Repairer firm
➤ Mr.M.S. Kele (Director Technical), Indore	M/s Dynamic electro Power Ltd, Bhopal.
➤ Sh. B.L. Kalwadia (C.E.) Project Indore	M/s Dyno Power, Bhopal.
➤ Sh. Punit Dubey (A.C.E.) Purchase Indore	M/s MP Sales, Indore.
➤ Sh. G.S. Khanuja DGM MPPMCL, Bhopal	M/s Isolator & Isolator, Bhopal.
➤ Sh. Sanjay Ingole DGM (East Discom Jabalpur)	M/s Arihant Power, Indore.
➤ Sh. R.C. Sahu E.E. (East Discom Jabalpur)	M/s Micky Metals, Bhopal.
➤ Sh. N.C.Gupta (S.E.) Store Circle Indore	M/s Mamta Transformer, Indore.
➤ Sh. R.N. Pathak (S.E.) Purchase Indore	M/s Maruti Electricals, Indore.
➤ Sh. Rajput (E.E.) Purchase Indore	M/s NKG Power, Indore.
➤ Sh. Narendra Dubey (E.E.) Purchase Indore	M/s Stalian Power, Indore.
➤ Sh. Sunil Patel (E.E.) MTRU Indore	
➤ Smt. Kirti Singh (E.E.) Store Indore	
➤ Smt. Durga Morawkar (E.E.) O/o SE Store Indore	
➤ Sh. Vinod Malviya (E.E.) Store Ujjain	
➤ Sh. Jayant Thakur (E.E.) Store Dhar	
➤ Sh. Ashish Shroff (A.E.) O/o SE Store Indore	
➤ Ku. Rubi (J.E.) MTRU Indore	

Technical Presentation:-

- At 11:00 AM, Meeting Started with an introduction from Mr. Srinivas Chaitanya stating the purpose and agenda of meeting and giving a brief about Hitachi Metals India Limited, followed by the Technical Presentation from Mr. Thukaram.
- A detailed explanation on how the repair of Amorphous Metal Distribution Transformer has to be done was explained which involved clarification on various aspects which are present,
- Followed by the Presentation a Question and Answer session was conducted in which various queries related to AMDT's were asked and clarified.
- At 12:30, the team moved to stores for live demonstration of repairing a failed transformer.

Repair Workshop at MTRU:

- A Practical session for AMDT Repair was conducted in which one CCA assembly from Failed Amorphous Metals Distribution Transformer was taken & Repair for this failed Transformer was done.
- A detailed explanation and live demo on how the coil has to be removed & Unlacing of Amorphous core was conducted; Repairers also explained how the handling of the core materials has to be taken care off.
- The process of Dismantling, Cleaning Core and Coils, Core Coil Assembly Drying, Lacing of Core & Testing done.
- The process of repairing has been explained using all necessary tools and tackles present in the MTRU. It has been observed that no separate tools are required for repairing AMDT's in comparison to CRGO. At the same time, the process of repairing is fairly simple with reasonable workmanship.
- The repaired transformer has been tested and all the technical parameters were found of 25 KVA DTR as below-

Sr. No.	Particular	Result Found	As per Standard
1.	No load loss	31 Watts	32 Watts
2.	Total loss at 50% load	172.96 Watts	175 Watts
3.	Total loss at 100% load	603.86 Watts	595 Watts

- Local Repairers along with Utility officials have witnessed repair process and understood that repairing Amorphous Transformers is far easier and simple than conventional Transformers.



S.E. (Store)


MPPKVVCL Indore

Copy to

No. SE/SC/17-18/ 1919

Indore, date:- 18.8.17

1. PA to MD MPPKVVCL, Indore.
2. PA to MD MPMKVVCL, Bhopal.
3. PA to MD MPPKVVCL, Jabalpur.
4. Director (Technical) O/o MD (WZ), MPPKVVCL, Indore.
5. CGM MPMKVVCL, Bhopal.
6. CGM MPPKVVCL, Jabalpur.
7. Addl. C.E. (Purchase) O/o MD (WZ), MPPKVVCL, Indore.



S.E. (Store)

MPPKVVCL Indore