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भारत सरकार – रेल मंत्रालय
अनुसंधान अभिकल्प और मानक संगठन
लखनऊ – 226011
Government of India - Ministry of Railways
**Research, Designs & Standards
Organization, LUCKNOW - 226011**

No. EL/4.3.35/AC-DC

Dated: 06.11.2012

Chief Electrical Engineer,
मुख्य विद्युत इंजीनियर,


- Western Railway, Churchgate, Mumbai-400 020
- पश्चिम रेलवे, चर्चगेट, मुम्बई – 400020.
- Central Railway, Mumbai CST-400 001
- मध्य रेलवे, मुम्बई सी.एस.टी – 400001.

Sub: Technical Circular no. RDSO/2012/EL/TC/0120, Rev'0' dt. 06.11.2012 for repair of LOT 1250 KVA transformers fitted on 3-ph propulsion EMUs in Mumbai Sub-urban Railways.

Ref: Western Railway's letter no. 90/2/46 (OEE) dated 08.10.2012

In reference to above, RDSO has prepared a Technical Circular no. RDSO/2012/EL/TC/0120, Rev'0' dt. 06.11.2012 for repair of LOT 1250 KVA transformers fitted on 3-ph propulsion EMUs in Mumbai Sub-urban Railways. This Circular among others gives the technical specification, brief scope of work and sources for repair of this transformers for guidance of the Railways.

Encl: As above.


(Sanjiv Swarup)
for Director General/Elect.

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Chief Electrical Engineer,

- Western Railway, Churchgate, Mumbai – 400 020
- Central Railway, Parcel office, CST, Mumbai CST - 400 001

TECHNICAL CIRCULAR No. RDSO/2012/EL/TC/ 0120, Rev '0' dt. 06.11.2012

***Repair of LOT 1250 KVA transformers fitted on 3-ph propulsion EMUs in
Mumbai Sub-urban Railways***

1.0 Background

- 1.1 LOT 1250 KVA transformers provided by M/s Siemens in the AC-DC EMUs against Contract No. GP-194 and MRVC Ph-I Project were manufactured by M/s ABB India/ABB Secheron, Switzerland, Original Equipment Manufacturers (OEM) of these transformers. Approximately 500 nos. of ABB make transformers have been provided in AC-DC EMUs running on CR & WR against the above contract.
- 1.2 Further, approximately 54 transformers of 1250 KVA for GP-194 Contract against option clause were also supplied by M/s Siemens and for these transformers, M/s Siemens is the OEM.
- 1.3 Western Railway vide their letter No. EL/90/2/46(OEE) dt. 08.10.2012 has requested RDSO to issue specification and test protocol for undertaking repairs of these transformers along with the approved sources.

2.0 Technical specification

Following parameters may be considered as technical specification for these transformers:

2.1 Catenary Voltage:

-	Nominal	-	25 KV
-	Maximum	-	30 KV
-	Minimum	-	16.5 KV

2.2 Frequency(Hz)

- 50 Hz ± 6%

