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Government of India - Ministry of Railways
Research Designs & Standards Organization
LUCKNOW – 226011

No. EL/3.2.15 (3-Phase)

Dated 07.01.2008

Chief Electrical Engineer,

- Central Railway, Mumbai CST-400 001.
- Northern Railway, Baroda House, New Delhi-110 001.
- North Central Railway, Hastings Road, Allahabad- 211001
- Eastern Railway, Fairlie Place, Kolkata -700 001.
- East Central Railway, Hazipur-844101.
- East Coast Railway, Chandrashekharapur, Bhubaneswar-751016.
- Southern Railway, Park Town, Chennai-600 003.
- South Central Railway, Secunderabad-500 371.
- South Eastern Railway, Garden Reach, Kolkata -700 043.
- South East Central Railway, Bilaspur-495004
- Western Railway, Churchgate, Mumbai-400 020.
- West Central Railway, Jabalpur-482001.
- Chittaranjan Locomotive Works, Chittaranjan-713 331 (WB)

MODIFICATION SHEET No. RDSO/2008/EL/MS/0352, Rev.'0' Dated 07.01.2008

1.0 TITLE :

Relocation of Air Suction filter on M/s ELGI make compressor type RR-20 100 mounted on WAP5, WAP7 & WAG9 class of Electric Locomotives to improve the down time of Locomotives during scheduled inspection.

2.0 OBJECT:

To avoid damage of air suction filter due to external hitting, ease of maintenance in scheduled inspection and saving in down time of Locomotive

3.0 EXISTING ARRANGEMENT:

Air Suction Filter of RR-200 100 type air compressor of M/s ELGI, is provided on one side of compressor body. The air filter element is required to be removed from the compressor unit for cleaning during scheduled inspection. With present location, it is difficult

to attend in C2 as it is obstructed by the suspension bracket and flange fixing bolts and therefore it is required to be dismantled, which is time consuming exercise.

4.0 MODIFIED ARRANGEMENT:

The suggested modification of ELS/GZB was scrutinized in detail in consultation with the manufacturer i.e. M/s. ELGI. M/s. ELGI have confirmed that the performance of the compressor with relocated suction air filter will not be affected. The modified layout is therefore found in order for adoption by Sheds/manufacturers.

Location of Air Suction Filter is shifted from side position to top of the motor compressor unit, as shown in the enclosed Drawing No. 07 03 0065 0 (G.A. of reciprocating air compressor package) of M/s. ELGI resulting in following advantages:-

- i) Ease in removal of suction filter for cleaning of its elements.
- ii) Damage from external hitting is avoided.

5.0 APPLICATION TO CLASS OF LOCOMOTIVES:

Modification is applicable on compressor type RR 20 100 of M/s. ELGI make, which are mounted on WAP-5 & WAP7 & WAG9 class of Electric Locomotives.

6.0 MATERIAL REQUIRED:

Manifold suction pipe and Flange as per RDSO's Drawing No. SKEL – 4722.

7.0 MATERIAL RENDERED SURPLUS:

Existing suction Pipe used in RR20 100 Type Compressor.

8.0 REFERENCE:

Suggestion received from Electric Loco Shed / Northern Railway Ghaziabad.

9.0 MODIFICATION DRAWING:

Manifold for Air Suction Filter of RR20100 Type of Compressor to RDSO's drawing No. SKEL 4722.

★ 10.0 AGENCY OF IMPLEMENTATION:

- ii) Electric Loco Sheds on existing population of RR 20 100 type compressor of M/s. Elgi.
- ii) M/s. Elgi to incorporate the modified arrangement in future supply.

Encl: 1. RDSO Drawing No SKEL- 4722
2. M/s. ELGI Drawing No. 07 03 0065 0

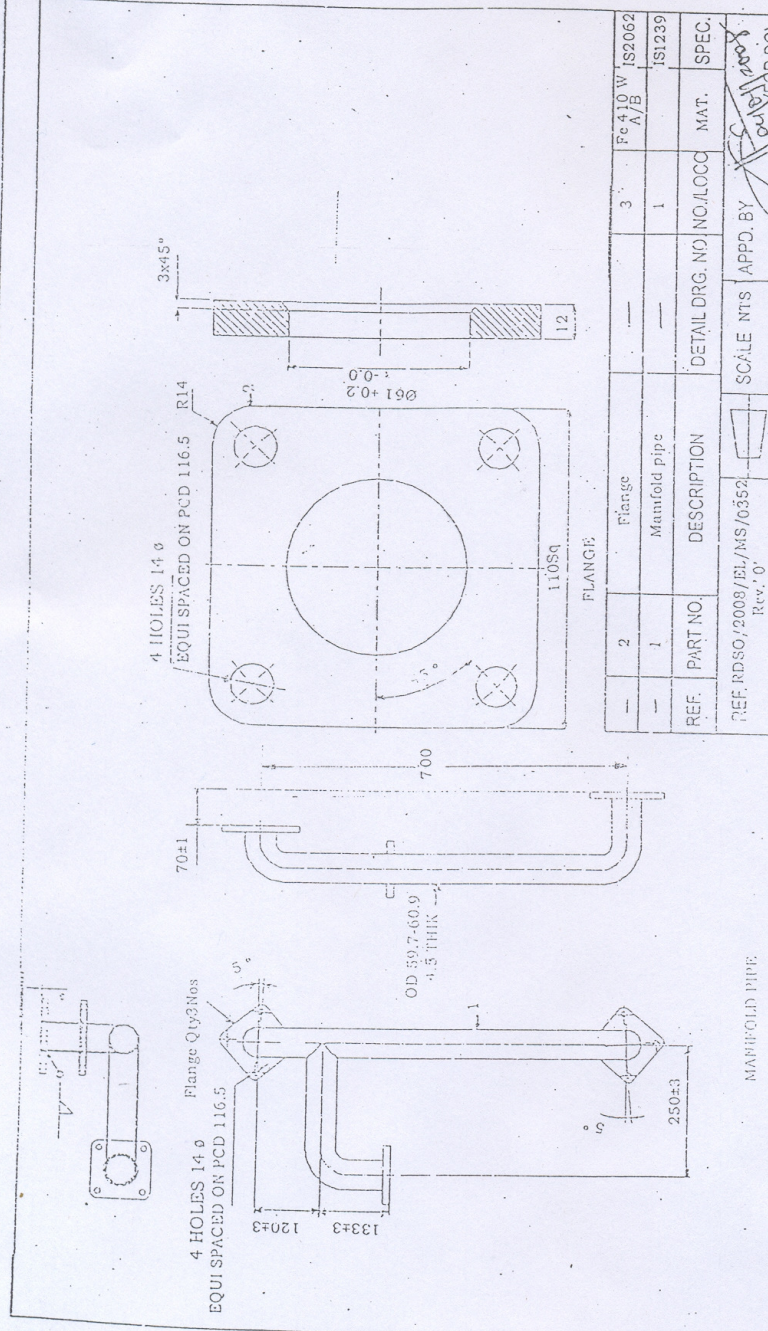
[Signature]
(Kishore Kumar)
for Director General/Elect.

DISTRIBUTION

Copy to : As per Standard Mailing List No. EL/M/0019, Ver. '2'

Encl: 1. RDSO Drawing No SKEL- 4722
2. M/s. ELGI Drawing No. 07 03 0065 0

[Signature]
(Kishore Kumar)
for Director General/Elect.



MANIFOLD FOR AIR SUCTION FILTER FOR RR-20100 TYPE OF COMPRESSOR		FOR DG
RDSO. ELECT. DTE.		FIRST ISSUED
SKEL 4722		SUPERSEDES
		SUPERSEDED BY

Dt.	1.01.2008
D	VINOD
C	A.J. Singh
T	

STATUS	ALT.	REF. NO.	DESCRIPTION	APPD. BY	DATE

