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



File no. EL/1.2.9.1

Dated : 03.06.2019.

Principal Chief Electrical Engineer,  
All Zonal Railways,

**Sub:** Development of 2 x 130 KVA Static Converter (SIV), for Conventional Electric locomotive

**Ref:** 1. This office letter no of even no. dated 12.09.2018.

2. Railway Board's letter no 2018/Elect (TRS) 441/5 pti dated 28.08.2018.

As per guideline of Railway Board as referred (2) above , point no 3.0 (ii) all the new procurement of SIV by Railways shall be done with RDSO's revised specification. In this references RDSO has made a scheme for replacement of 2 x 130 KVA SIV of new design for WAP-4 and WAG-7 types of locomotive and mounting dimensions of new design of 2 x 130 KVA SIV & its choke (Module A & B). The scheme for replacement of 2 x 130 KVA SIV is provisional and railways may fit the equipment as per their convenience. Both the sketches are attached for ready references.

This is for your kind reference please.

03/06/2019  
(Aseem Kumar)

For Director General/Elect.

Encl: As above.( 2 pages)

Copy to:

Secretary (Electrical), Railway Board, Rail Bhawan, New Delhi - 110 001  
(Kind Attn: Sri A.K.Goswami, Dir. Elect. Engg. (RS)) for kind information please.

03/06/2019  
(Aseem Kumar)

For Director General/Elect.

Encl: As above.( 2 pages)

190603 letter to SIE



**Scheme for replacement of 180 kVA SIV by 2 X 130 kVA SIV of new design.**

As per specification of new design of 2 X 130 kVA SIV, the dimensional envelops are as under:

- (i) 1520 mm X 800 mm X 1700 mm comprising of inverter module marked as "A" in figure below &
- (ii) 600 mm X 800 mm X 1700 mm comprising of choke module marked as "B" in figure below.

1. For WAP-4: "A" portion will be placed at the same place where 180 KVA SIV is located by slightly shifting towards cab side. ATFEX and RSI are to be shifted suitably so that Choke can be placed in between RSI and "A" unit of new design of SIV as mentioned in Fig 1 .

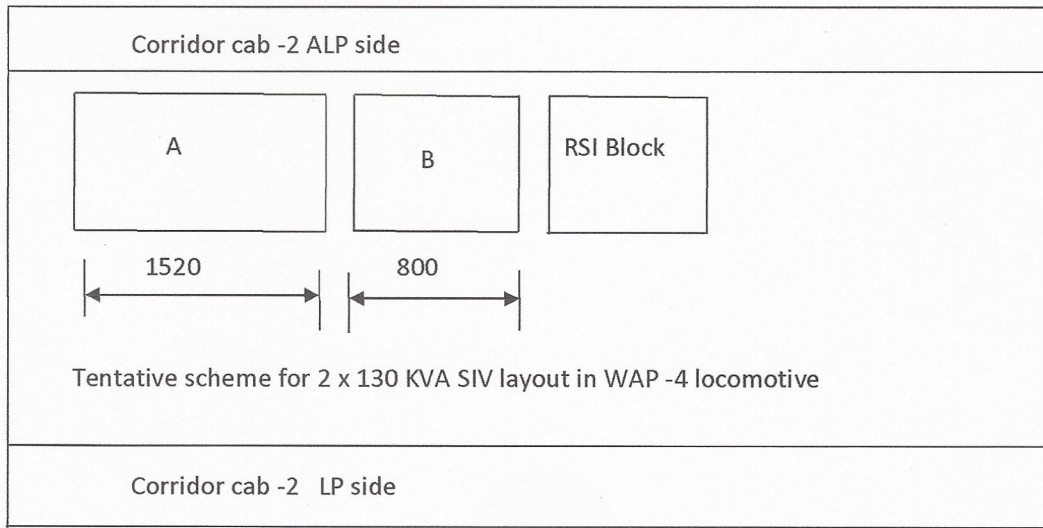


Fig 1

2. For WAG-7: "A" portion will be placed at the same place where 180 KVA SIV is located slightly shifting towards cab side. ATFEX and RSI are to be shifted so that Choke can be placed in between RSI and SIV unit as per the scheme shown in Fig 2. In the cases where space for choke is not available due to Vertical DBR, 2 x 1750 LPM compressors (oil lubricated or oil free) can be provided as per MS-0445 & MS 0451 in place of 3x 1000 LPM compressor and choke can be placed at CP-2 location as per the scheme shown below in Fig 2.

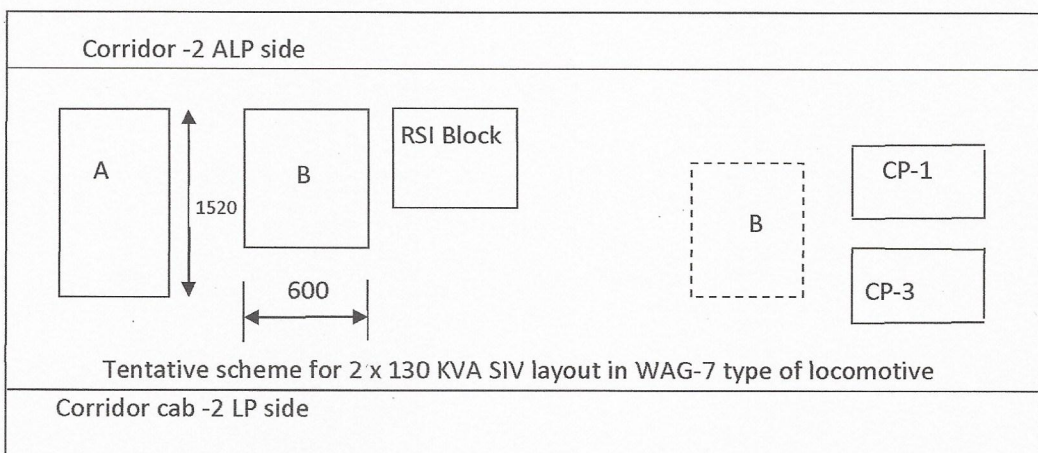


Fig.2

Vk



Mounting dimension of new design 2 X 130 KVA SIV & its choke ( Module A & B ).

