

## Rail Coach Factory, Kapurthala

Document No.: AB-02/ABS-01	Version: 2.0	Page 1 of 2	Date: 31.03.2021
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### Scope of work for fitment & testing of Air Brake System

#### Applicable drawings:

Sn	Type of Coach	Main Drawing	Part Drawings
A	LVP	VP36001	VP36134, VP36133, VP36132, VP36131, VP36135, VP36136

Fitment of air brake system (fitment of its equipments, pipe & pipe fittings) includes its final air brake testing and quality clearance from quality department. The work will be executed as per main drawing number and part drawings given in table against each type of coach.

Air brake fitment work related to Bogie in Bogie shop & Electrical stage work linked with WSP & EP assisted Air brake system is not covered in this scope of work.

Material will be supplied to contractor on stage. The sequence of work for fitment of air brake equipments and pipe fittings for coaches in above table will be as under:

- 1 Fitment of train pipe brackets at under gear of coach as per main drawing number and part drawings given in table against each type of coach.
- 2 Loading and securing of Axle mounted disc brake panel, dump valve, brake accelerator and indicator as main drawing number and part drawings given in table against each type of coach.
- 3 Laying of Stainless steel pipe line at under-gear to connect all equipments (Isolating cock, flexible hose, as per main drawing number and part drawings given in table against each type of coach.
- 4 Clamping / securing of pipe lines and its fitting including Air brake equipment at under-gear as per main drawing number and part drawings given in table against each type of coach.
- 5 Fitment and clamping of twin pipes at both ends of coach end area with fitment of FP & BP hose pipe with cut-off angle cock under as per main drawing number and part drawings given in table against each type of coach.
- 6 Fitment & clamping of releasing device as per main drawing number and part drawings given in table against each type of coach.
- 7 Minor design changes ( as per latest applicable drawings ) including cutting & welding of pipes and under-frame , air brake pipelines , securing brackets at the time of fitment , clamping of pipes, final assembly and testing will be done at the contractor end. Latest drawings will be followed.
- 8 Supply of pipes , pipe fittings, clamps, brackets, hardware as per above mentioned drawings, grease, sealing tapes air brake testing equipments will be provided by RCF, Kapurthala. Crimping machine/ crimping hand tools/die for making ferrule joints will be arranged by contractor himself.
- 9 Contractor will use his own working hand tools, welding consumables for welding purpose and small power tools.
- 10 Contractor will test the leakage of entire air brake system.
11. Shop Stage In-charge (SSE or his deputed representative) will test quality of workmanship, operation of air brake system and leakage test before offering coach to quality department for quality test.
12. Final Leakage testing and quality clearance for good workmanship, perfect working & leak-proof work as per QMF-9757 version ( 01) for above mentioned type of coaches will be done by Quality department/Fur.

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Document No.: AB-02/ABS-01	Version: 2.0	Page 2 of 2	Date: 31.03.2021
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13. Contractor will take care of his workmen and will provide necessary & mandatory PPEs as per rules /regulation prevalent in RCF. Contractor will be solely responsible for any damage done to air brake equipment issued for fitment.
14. Compressed air supply will be provided by RCF, Kapurthala. Electrical power supply for operating hand tools & welding set for welding purpose will be supplied by RCF, Kapurthala. Material handling equipment like lifter etc will be provided by RCF however, valid industrial driver shall be arranged by contractor himself.
15. The Firm should deploy skilled qualified, well experienced man power for executing the work.
16. Firm will also abide by all the legal provisions of labour law prevalent and updated time to time.
17. Dy.CME/Furnishing will issue installation and commissioning certificates after getting completion certificates from Dy.CME/Bogie.

### Free Supply Items to Contractor:

1. Grease, PL No.80031250
2. Teflon Tape, PL No.37983313



AWM/Fur

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