



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

|     |   |                                |  |                                |                     |         |            |
|-----|---|--------------------------------|--|--------------------------------|---------------------|---------|------------|
| 1.  | SHELL No.   | 5072                           | DISPATCH DATE  |                                |                     |         | 23.10.2015 |
| 2.  | Railway   | WR                             | Type   | LWSCN1                         | Coach No.           | 16209   |            |
| 3.  | Booked to   | SSE/C&W/OKHA                   |  |                                |                     |         |            |
| 4.  | Tare Weight of Coach  | 41.239 T                       |  |                                |                     |         |            |
| 5.  | Carrying Capacity   | Seating                        | 80   | Sleeping                       | 80                  | Luggage | NIL        |
| 6.  | Shell Details: (LW90023 alt 'a', LE90009 alt 'nil', LD9009 alt 'b') |                                |  |                                |                     |         |            |
|     | 6.1   | Leading Dimensions:            |  |                                |                     |         |            |
|     | i)  | Maximum length over Body       | 23700+10/-0 mm   |                                |                     |         |            |
|     | ii)   | Maximum width over Body        | 3240-8/+0 mm, 3050 mm (LWSCZDAC)                         |                                |                     |         |            |
|     | iii)  | Max. Height From Rail Level    | 4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC) |                                |                     |         |            |
|     | iv)   | Buffer/CBC Height              | Specified : 1105 +0 /-15 mm                              | 1102                           | 1105                |         |            |
|     | v)  | Buffer/CBC (Make )             | ESCORT   | Fiba Device                    | NA                  |         |            |
| 7.  | Air Brake Testing:  |                                | Description  | Specified                      | Observed            |         |            |
|     | 7.1   | Full Brake Application         | Reduce pressure of BP from 5.0 to 3.4 kg/cm <sup>2</sup> | 6 –10 sec                      | 6 Sec               |         |            |
|     |   |                                | Max Pressure in BC                                       | 3.00 ± 0.15 Kg/cm <sup>2</sup> | 3.00                |         |            |
|     |   |                                | All Brake are applied                                    | OK                             | OK                  |         |            |
|     | 7.2   | Insensitivity                  | Exhaust BP @ 0.3 kg/cm <sup>2</sup> /min                 | No brake application           | OK                  |         |            |
|     | 7.3   | Sensitivity                    | Exhaust BP @ 0.1 kg/cm <sup>2</sup> /Sec, After 02 Sec.  | Brake must apply               | OK                  |         |            |
| 8.  | PAINTING DEATAILS:  |                                | TYPE OF PAINT  | MAKE                           | AVERAGE GLOSS VALUE |         |            |
|     | 8.1   | PAINT                          | PU PAINT   | VIBGYOR                        | 86/86               |         |            |
|     | 8.2   | APPLICATION OF PCN-123         | SATISFACTORY   |                                |                     |         |            |
|     | 8.3   | INSUALTION                     | SATISFACTORY   |                                |                     |         |            |
| 9.  | Traceability of Furnishing Items:                                   |                                |  | Make                           |                     |         |            |
|     | I   | BRAKE EQUIPMENT                |  | FAVELLY                        |                     |         |            |
|     | ii  | SEAT & BERTH                   |  | OVPL                           |                     |         |            |
|     | iii   | BODY SIDE DOORS                |  | JBM                            |                     |         |            |
|     | iv  | WATER TANKS                    |  | E C BLADES ,KUTEER,AMIT        |                     |         |            |
|     | v   | FLOOR BOARD                    |  | TAYAL                          |                     |         |            |
|     | vi  | PVC FLOORING                   |  | RESPONSIVE                     |                     |         |            |
|     | vii   | UIC VESTIBULE                  |  | ESCORTS                        |                     |         |            |
|     | viii  | BIO TIOILET                    |  | RAIL FAB                       |                     |         |            |
|     | IX  | VESTIBULE SLIDING DOOR         |  | KALSI                          |                     |         |            |
|     | XI  | LP SHEET                       |  | PL                             |                     |         |            |
| 10. |   |                                |  |                                |                     |         |            |
|     | 10.1  | Modification / Trail (if any): |  |                                |                     | NIL     |            |
|     | 10.2  | Deviations if any:             |  |                                |                     | NIL     |            |



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|------|---|---------------------------------------|------------------------------------|---------------|--|--------------|--------------------|--|--------------------|------------|----------------------|--|
| 11.  | <b>Bogie Details:</b>                               |                                       | <b>Shell No.</b>                   |               | <b>Railway</b>                                 |              | <b>Type</b>        |  | <b>Coach No.</b>   |            | <b>Dispatch Date</b> |  |
|      |   |                                       | 5072                               |               | WR   |              | LSCN               |  | 16209              |            | 01-02-2016           |  |
| 11.1 | <b>Wheel &amp; Axle Details:</b>                    |                                       | <b>PP Side</b>                     |               |  |              |                    |  | <b>NPP Side</b>    |            |                      |  |
|      | i.  | <b>Bogie No.</b>                      | 166098                             |               |  |              |                    |  | 166099             |            |                      |  |
|      | ii.   | <b>Frame No.</b>                      | FIAT-4382                          |               |  |              |                    |  | FIAT-4421          |            |                      |  |
|      | iii.  | <b>Bolster No.</b>                    | 5483-P                             |               |  |              |                    |  | 5430-VT            |            |                      |  |
|      | iv.   | <b>Axle No.</b>                       | 128611/989                         |               | 128133/984                                     |              | 126116/471         |  | 126005/475         |            |                      |  |
|      | v.  | <b>Wheel Dia.</b>                     | 916.00                             | 916.00        | 917.00   | 917.00       | 917.00             | 917.00   | 917.00             | 917.00     | 917.00               |  |
|      | vi.   | <b>Wheel Disc No.</b>                 | 7223-00113                         | 6210-00094    | 7282-00112                                     | 6210-00095   | 6202-00031         | 6234-00091                                     | 6226-00098         | 6226-00108 |                      |  |
|      | vii.  | <b>R.B. Nos.</b>                      | 01860                              | 05166         | 01314  | 04946        | 07315              | 01533  | 05643              | 04953      |                      |  |
|      | viii.   | <b>R.B. Make</b>                      | TIMKEN                             |               | TIMKEN   |              | TIMKEN             |  | TIMKEN             |            |                      |  |
|      | ix.   | <b>RB Type</b>                        | UIC CARTRIDGE TAPER ROLLER BEARING |               |  |              |                    |  |                    |            |                      |  |
| 11.2 | <b>Secondary suspension load deflection Values:</b> |                                       |                                    |               |  |              |                    |  |                    |            |                      |  |
|      | <b>Description</b>                                  |                                       | <b>Secondary 1</b>                 |               | <b>Secondary 2</b>                             |              | <b>Secondary 1</b> |  | <b>Secondary 2</b> |            |                      |  |
|      |   |                                       | Outer                              | Inner         | Outer  | Inner        | Outer              | Inner  | Outer              | Inner      |                      |  |
| i.   | <b>Make &amp; nos.</b>                              | DN-14-12-1112                         | G-14-12-025                        | DN-14-12-1083 | G-14-12-008                                    | DN-14-12-037 | G-14-12-167        | DN-14-12-1705                                  | G-14-12-171        |            |                      |  |
| ii.  | <b>Ht. at test load</b>                             | 513                                   | 470                                | 513           | 470  | 511          | 470                | 512  | 472                |            |                      |  |
| iii. | <b>Align .deviation</b>                             | 15                                    | 14                                 | 18            | 14   | 12           | 8                  | 13   | 9                  |            |                      |  |
| 11.3 | <b>Items traceability:</b>                          |                                       |                                    |               |  |              |                    |  |                    |            |                      |  |
|      | <b>Sno.</b>   | <b>Item</b>                           |                                    |               | <b>PP Side Bogie</b>                           |              |                    | <b>NPP side Bogie</b>                          |                    |            | <b>Make</b>          |  |
|      | i.  | Primary Outer Spring                  |                                    |               | G-14-11  |              |                    | G-14-11  |                    |            | GF                   |  |
|      | ii.   | Primary inner Spring                  |                                    |               | G-14-3   |              |                    | G-14-3   |                    |            | GF                   |  |
|      | iii.  | Primary Damper                        |                                    |               | 2056,2044,270,2078                             |              |                    | 2094,2299,2038,2112                            |                    |            | GEREP                |  |
|      | iv.   | Secondary damper                      |                                    |               | 115,132  |              |                    | 143,109  |                    |            | GEREP                |  |
|      | v.  | Lateral Damper                        |                                    |               | 162  |              |                    | 599  |                    |            | GEREP                |  |
|      | vi.   | Yaw Damper                            |                                    |               |  |              |                    |  |                    |            | NIL                  |  |
|      | vii.  | Brake cylinder & Caliper              |                                    |               | L15169/600,L15147/600<br>L15168/600,L15150/600 |              |                    | L15170/600,L15166/600<br>L15171/600,L15161/600 |                    |            | FTI                  |  |
|      | viii.   | Brake Disc                            |                                    |               |  |              |                    |  |                    |            | KBI                  |  |
|      | ix.   | Ball joint Control arm                |                                    |               |  |              |                    |  |                    |            | GMT                  |  |
|      | x.  | Lateral Bump stop                     |                                    |               |  |              |                    |  |                    |            | MGN                  |  |
|      | xi.   | Traction center make                  |                                    |               |  |              |                    |  |                    |            | EMSON                |  |
|      | xii.  | Traction lever make                   |                                    |               |  |              |                    |  |                    |            | SARITA               |  |
|      | xiii.   | Ball joint traction lever             |                                    |               |  |              |                    |  |                    |            | SGA                  |  |
|      | xiv.  | Traction centre elastic               |                                    |               |  |              |                    |  |                    |            | SGA                  |  |
|      | xv.   | Secondary rubber pad                  |                                    |               |  |              |                    |  |                    |            | TESPAK               |  |
|      | xvi.  | Rubber spring                         |                                    |               |  |              |                    |  |                    |            | GMT                  |  |
|      | xvii.   | Anti roll bar make                    |                                    |               |  |              |                    |  |                    |            | SARITA               |  |
|      | xviii.  | Ball joint roll link                  |                                    |               |  |              |                    |  |                    |            | SARITA               |  |
|      | xix.  | Fork make                             |                                    |               |  |              |                    |  |                    |            | SARITA               |  |
| 11.4 | i.  | <b>Modification / Trial (if any):</b> |                                    |               |  |              |                    | NIL  |                    |            |                      |  |
|      | ii.   | <b>Deviations (if any):</b>           |                                    |               |  |              |                    | NIL  |                    |            |                      |  |

LSCN-5072