



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

|     |   |                                |  |                                |                     |           |     |
|-----|---|--------------------------------|--|--------------------------------|---------------------|-----------|-----|
| 1.  | SHELL No.   | 4004                           | DISPATCH DATE  |                                |                     | 17.6.2014 |     |
| 2.  | Railway   | SEC                            | Type   | LS3                            | Coach No.           | 14402     |     |
| 3.  | Booked to   |                                | SSE/C&W/BSP  |                                |                     |           |     |
| 4.  | Tare Weight of Coach  |                                | 40.665 T   |                                |                     |           |     |
| 5.  | Carrying Capacity   | Seating                        | 100  | Sleeping                       | NIL                 | 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                              | 1105                           | 1105                |           |     |
|     | v)  | Buffer/CBC (Make )             | FAIVELEY   | 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   | GS                             | 86                  |           |     |
|     | 8.2   | APPLICATION OF PCN-123         | SATISFACTORY   |                                |                     |           |     |
|     | 8.3   | INSUALTION                     | SATISFACTORY   |                                |                     |           |     |
| 9.  | Traceability of Furnishing Items:                                   |                                |  | Make                           |                     |           |     |
|     | i   | BRAKE EQUIPMENT                |  | FAIVELEY                       |                     |           |     |
|     | ii  | SEAT & BERTH                   |  | OVPL                           |                     |           |     |
|     | iii   | BODY SIDE DOORS                |  | JBM & SUKATA                   |                     |           |     |
|     | iv  | WATER TANKS                    |  | RUBICON                        |                     |           |     |
|     | v   | FLOOR BOARD                    |  | TAYAL                          |                     |           |     |
|     | vi  | LP SHEETS                      |  | PUNJAB LAMINATES               |                     |           |     |
|     | vii   | PVC SHEET                      |  | RESPONSIVE                     |                     |           |     |
| 10. |   |                                |  |                                |                     |           |     |
|     | 10.1  | Modification / Trail (if any): |  |                                | NIL                 |           |     |
|     | 10.2  | Deviations if any:             |  |                                | NIL                 |           |     |



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|             |  |                                |                                    |                      |                     |                     |                      |                     |                     |           |
|-------------|--|--------------------------------|------------------------------------|----------------------|---------------------|---------------------|----------------------|---------------------|---------------------|-----------|
| 12.         | Bogie Details:                               |                                | Shell No.                          | Railway              | Type                | Coach No.           | Dispatch Date        |                     |                     |           |
|             |  |                                | 4004                               | SEC                  | LS3                 | 14402               | 19-05-14             |                     |                     |           |
| 12.1        | Wheel & Axle Details:                        |                                | PP Side                            |                      |                     |                     | NPP Side             |                     |                     |           |
|             | i.   | Bogie No.                      | 146454                             |                      |                     |                     | 146455               |                     |                     |           |
|             | ii.  | Frame No.                      | FIAT-3125                          |                      |                     |                     | FIAT-2390            |                     |                     |           |
|             | iii.   | Bolster No.                    | 3722-P                             |                      |                     |                     | 3776-GT              |                     |                     |           |
|             | iv.  | Axle No.                       | RWF-110226                         |                      | RWF-109643          |                     | RWF-110252           |                     | W-4490              |           |
|             | v.   | Wheel Dia.                     | 915.00                             | 915.00               | 915.00              | 915.00              | 915.00               | 915.00              | 915.00              | 915.00    |
|             | vi.  | Wheel Disc No.                 | 109-63307                          | 071-63307            | 368-63302           | 315-63301           | 092-63305            | 146-63307           | 313-51912           | 033-51912 |
|             | vii.   | R.B. Nos.                      | 77347                              | 92188                | 77351               | 12581               | 77182                | 92211               | 77162               | 92191     |
|             | viii.  | R.B. Make                      | SKF                                |                      | SKF                 |                     | SKF                  |                     | SKF                 |           |
|             | ix.  | RB Type                        | UIC CARTRIDGE TAPER ROLLER BEARING |                      |                     |                     |                      |                     |                     |           |
| 12.2        | Secondary suspension load deflection Values: |                                |                                    |                      |                     |                     |                      |                     |                     |           |
| Description |  | Secondary 1                    |                                    | Secondary 2          |                     | Secondary 1         |                      | Secondary 2         |                     |           |
|             |  | Outer                          | Inner                              | Outer                | Inner               | Outer               | Inner                | Outer               | Inner               |           |
| i.          | Make & nos.                                  | CMFSK-02-14-5101-52            | CMFSK-02-14-5100-109               | CMFSK-02-14-5101-103 | CMFSK-02-14-5100-57 | CMFSK-02-14-5101-58 | CMFSK-02-14-5100-115 | CMFSK-02-14-5101-49 | CMFSK-02-14-5100-26 |           |
| ii.         | Ht. attest load                              | 515                            | 471                                | 516                  | 472                 | 514.50              | 469                  | 513.50              | 472                 |           |
| iii.        | Align .deviation                             | 9                              | 8                                  | 6                    | 4                   | 6                   | 8                    | 9                   | 8                   |           |
| 12.3        | Items traceability:                          |                                |                                    |                      |                     |                     |                      |                     |                     |           |
|             | Sno.   | Item                           | PP Side Bogie                      |                      |                     | NPP side Bogie      |                      |                     | Make                |           |
|             | i.   | Primary Outer Spring           | CMFSK-02-14-1100                   |                      |                     | CMFSK-02-14-1100    |                      |                     | CMFSK               |           |
|             | ii.  | Primary inner Spring           | CMFSK-02-14-1101                   |                      |                     | CMFSK-02-14-1101    |                      |                     | CMFSK               |           |
|             | iii.   | Primary Damper                 |                                    |                      |                     |                     |                      |                     | GEREP               |           |
|             | iv.  | Secondary damper               |                                    |                      |                     |                     |                      |                     | GEREP               |           |
|             | v.   | Lateral Damper                 |                                    |                      |                     |                     |                      |                     | GEREP               |           |
|             | vi.  | Yaw Damper                     |                                    |                      |                     |                     |                      |                     | NIL                 |           |
|             | vii.   | Brake cylinder & Caliper       |                                    |                      |                     |                     |                      |                     | FTI                 |           |
|             | viii.  | Brake Disc                     |                                    |                      |                     |                     |                      |                     | KBI                 |           |
|             | ix.  | Ball joint Control arm         |                                    |                      |                     |                     |                      |                     | SGA                 |           |
|             | x.   | Lateral Bump stop              |                                    |                      |                     |                     |                      |                     | GMT                 |           |
|             | xi.  | Traction center make           |                                    |                      |                     |                     |                      |                     | SARITA              |           |
|             | xii.   | Traction lever make            |                                    |                      |                     |                     |                      |                     | SARITA              |           |
|             | xiii.  | Ball joint traction lever      |                                    |                      |                     |                     |                      |                     | SGA                 |           |
|             | xiv.   | Traction centre elastic        |                                    |                      |                     |                     |                      |                     | GMT                 |           |
|             | xv.  | Secondary rubber pad           |                                    |                      |                     |                     |                      |                     | TESPAK              |           |
|             | xvi.   | Rubber spring                  |                                    |                      |                     |                     |                      |                     | GMT                 |           |
|             | xvii.  | Anti roll bar make             |                                    |                      |                     |                     |                      |                     | SARITA              |           |
|             | xviii.                                       | Ball joint roll link           |                                    |                      |                     |                     |                      |                     | SARITA              |           |
|             | xix.   | Fork make                      |                                    |                      |                     |                     |                      |                     | EMSON               |           |
| 12.4        | i.   | Modification / Trial (if any): |                                    |                      |                     |                     |                      |                     | NIL                 |           |
|             | ii.  | Deviations (if any):           |                                    |                      |                     |                     |                      |                     | NIL                 |           |