



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. :

QMF4254;  
Version: 05

|       |   |   |                |  |                     |            |     |
|-------|---|---|----------------|--|---------------------|------------|-----|
| 1.    | SHELL No:   | 4163  | DISPATCH DATE: |  |                     | 24.01.2015 |     |
| 2.    | RAILWAY   | NFR   | Type:          | WGACCN   | Coach No.:          | 14138      |     |
| 3.    | Booked to   | SSE/C&W/GHY                                       |                |  |                     |            |     |
| 4.    | Tare Weight of Coach :                                | 52.53 T   |                |  |                     |            |     |
| 5.    | Carrying Capacity :                                   | Seating:  | 64             | Sleeping:  | 64                  | Luggage:   | NIL |
| 6.    | Shell Details: (SG-90004 alt 'b')                     |   |                |  |                     |            |     |
| 6.1   | Leading Dimensions;                                   |   |                |  |                     |            |     |
| i)    | Maximum height above rail to top of Roof ventilator   |   |                | 4100 ± 5 (for NAC)<br>4250 +0/-5 (for WGACCN only)                   |                     |            |     |
| ii)   | Maximum length over Body                              |   |                | 21337 ± 10   |                     |            |     |
| iii)  | Maximum length over Buffer                            |   |                | 22297 ± 15   |                     |            |     |
| iv)   | Maximum width over Body                               |   |                | 3245 ± 5   |                     |            |     |
| v)    | Maximum width over Flasher light                      |   |                | 3402 +0/-5   |                     |            |     |
| vi)   | Minimum height above rail level to the lowest fitting |   |                | 181.5 mm (AE63143)   |                     |            |     |
| vii)  | Buffer/CBC Height                                     | Specified : 1104 +0 /-10 mm                       | 1104/1103      |  | 1104/1104           |            |     |
| viii) | Buffer/CBC (Make )                                    |   |                | JLS  |                     |            |     |
| ix)   | Draw Gear (Make)                                      |   |                | EMSON  |                     |            |     |
| 7.    | Air Brake Testing:                                    |   |                |  |                     |            |     |
|       | Description   |   |                | Specified  |                     |            |     |
| 7.1   | Emergency Application                                 | Time for 0 to 3.6 Kg/cm <sup>2</sup> of BC        |                | Less than 05 Sec (for BMBC type)<br>3 to 5 Sec (for Non BMBC type)   |                     |            |     |
|       |   | Brake release time to reach .4 Kg/cm <sup>2</sup> |                | Less than 20 Sec (for BMBC type)<br>15 to 20 Sec (for Non BMBC type) |                     |            |     |
| 7.2   | Insensitivity   | BP dipped @ 0.30 Kg/cm <sup>2</sup> n 60 sec      |                | No brake application   |                     |            |     |
| 7.3   | Sensitivity   | BP dipped @ 0.60 Kg/cm <sup>2</sup> in 6 sec      |                | Brakes "ON"  |                     |            |     |
| 7.4   | Passenger alarm by pulling chain                      |   |                | BP Blasts out, Brakes "ON"   |                     |            |     |
| 7.5   | Piston stroke for BMBC type coach only                |   |                | 19 +10/-0 mm (NAC)   |                     |            |     |
| 8.    | PAINTING DEATAILS:                                    |   |                |  |                     |            |     |
|       |   | TYPE OF PAINT                                     |                | MAKE   | AVERAGE GLOSS VALUE |            |     |
| 8.1   | PAINT   | PU PAINT  |                | VIBGYOR  | 85/85               |            |     |
| 8.2   | APPLICATION OF PCN-123                                |   |                | SATISFACTORY   |                     |            |     |
| 8.3   | INSUALTION  |   |                | SATISFACTORY   |                     |            |     |
| 9.    | Traceability of Furnishing Items:                     |   |                |  |                     |            |     |
| i.    | BRAKE EQUIPMENT                                       |   |                | Make<br>ESCORTS  |                     |            |     |
| ii.   | SEAT & BERTH  |   |                | SAVITRI  |                     |            |     |
| iii.  | WATER TANKS   |   |                | SHIVALIK, RAIL FAB   |                     |            |     |
| iv.   | PVC   |   |                | RESPONSIVE   |                     |            |     |
| v.    | FLOOR BOARD   |   |                | TAYAL  |                     |            |     |
| vi.   | UIC VESTIBULE   |   |                | KRP  |                     |            |     |
| vii.  | LAV. DOORS  |   |                | DHINJAN  |                     |            |     |
| viii. | LP SHEET  |   |                | LP   |                     |            |     |
| ix)   | BIO- TOILET   |   |                | RAIL FAB   |                     |            |     |
| 10    | 10.1  | Modification/ Trial (if any):                     |                |  | NIL                 |            |     |
| .     | 10.2  | Deviations (if any):                              |                |  | NIL                 |            |     |



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|-------------|--|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 12.         | Bogie Details:   | Shell No.                               | Railway       |               | Type          |               | Coach No.     |               | Dispatch Date |
|             |  | 4163                                    | NFR           |               | WGACCN        |               | 14138         |               | 12-01-2015    |
| 12.1        | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' |   |               |               |               |               |               |               |               |
| NBC<br>12.2 | Wheel & Axle Details:                                  | PP Side                                 |               |               |               | NPP Side      |               |               |               |
|             | i. Bogie No.   | 153002                                  |               |               |               | 153017        |               |               |               |
|             | ii. Frame No.  | UBLS-969                                |               |               |               | UBLS-1050     |               |               |               |
|             | iii. Axle No.  | 9023                                    |               | A-3613        |               | S-1542        |               | RWF-105257    |               |
|             | iv. Wheel Diameter                                     | 917.00                                  | 917.00        | 917.00        | 917.00        | 917.00        | 917.00        | 917.00        | 916.50        |
|             | v. Wheel Disc No.                                      | 09105/<br>275                           | 09106/<br>380 | 08952/<br>272 | 08937/<br>383 | 09141/<br>386 | 09142/<br>297 | 08892/<br>387 | 07242/31<br>4 |
|             | vi. R.B. Nos.  | K-2185                                  | K-2213        | K-2195        | K-2231        | M-0564        | M-0581        | K-2202        | K-2220        |
|             | vii. R.B. Make   | NBC                                     |               | NBC           |               | NBC           |               | NBC           |               |
|             | viii. R.B. Type  | Direct Mounted Spherical Roller Bearing |               |               |               |               |               |               |               |
| 12.3        | <u>Items Traceability:</u>                             |   |               |               |               |               |               |               |               |
|             | i.   | BRAKE CYLINDER (Make)                   |               |               |               | PEW           |               |               |               |
|             | ii.  | SECONDARY Shock Absorber (Make)         |               |               |               | KNORR BREMSE  |               |               |               |
| 12.4        | i.   | Modification/ Trail (if any):           |               |               |               | NIL           |               |               |               |
|             | ii.  | Deviations (if any):                    |               |               |               | NIL           |               |               |               |

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QMF4254;  
Version: 05

|       |   |                                       |                  |  |                     |                   |
|-------|---|---------------------------------------|------------------|--|---------------------|-------------------|
| 1.    | SHELL No:   | <b>4158</b>                           | DISPATCH DATE:   |  |                     | <b>23.01.2015</b> |
| 2.    | RAILWAY   | <b>NFR</b>                            | Type:            | <b>WGACCN</b>  | Coach No.:          | <b>14139</b>      |
| 3.    | Booked to   | <b>SSE/C&amp;W/</b>                   |                  |  |                     |                   |
| 4.    | Tare Weight of Coach :                                | <b>52.53 T</b>                        |                  |  |                     |                   |
| 5.    | Carrying Capacity :                                   | Seating: 64                           | Sleeping: 64     | Luggage:   | <b>NIL</b>          |                   |
| 6.    | Shell Details: (SG-90004 alt 'b')                     |                                       |                  |  |                     |                   |
| 6.1   | Leading Dimensions;                                   |                                       |                  |  |                     |                   |
| i)    | Maximum height above rail to top of Roof ventilator   |                                       |                  | 4100 ± 5 (for NAC)<br>4250 +0/-5 (for WGACCN only)                   |                     |                   |
| ii)   | Maximum length over Body                              |                                       |                  | 21337 ± 10   |                     |                   |
| iii)  | Maximum length over Buffer                            |                                       |                  | 22297 ± 15   |                     |                   |
| iv)   | Maximum width over Body                               |                                       |                  | 3245 ± 5   |                     |                   |
| v)    | Maximum width over Flasher light                      |                                       |                  | 3402 +0/-5   |                     |                   |
| vi)   | Minimum height above rail level to the lowest fitting |                                       |                  | 181.5 mm (AE63143)   |                     |                   |
| vii)  | Buffer/CBC Height                                     | Specified : 1104 +0 /-10 mm           | <b>1104/1104</b> | <b>1104/1094</b>   |                     |                   |
| viii) | Buffer/CBC (Make )                                    |                                       |                  | <b>REPL</b>  |                     |                   |
| ix)   | Draw Gear (Make)                                      |                                       |                  | <b>EMSON</b>   |                     |                   |
| 7.    | Air Brake Testing:                                    |                                       |                  |  |                     |                   |
|       | Description   |                                       |                  | Specified  |                     |                   |
| 7.1   | Emergency Application                                 | Time for 0 to 3.6 Kg/cm2 of BC        |                  | Less than 05 Sec (for BMBC type)<br>3 to 5 Sec (for Non BMBC type)   |                     |                   |
|       |   | Brake release time to reach .4 Kg/cm2 |                  | Less than 20 Sec (for BMBC type)<br>15 to 20 Sec (for Non BMBC type) |                     |                   |
| 7.2   | Insensitivity   | BP dipped @ 0.30 Kg/cm2 n 60 sec      |                  | No brake application   |                     |                   |
| 7.3   | Sensitivity   | BP dipped @ 0.60 Kg/cm2 in 6 sec      |                  | Brakes "ON"  |                     |                   |
| 7.4   | Passenger alarm by pulling chain                      |                                       |                  | BP Blasts out, Brakes "ON"   |                     |                   |
| 7.5   | Piston stroke for BMBC type coach only                |                                       |                  | 19 +10/-0 mm (NAC)   |                     |                   |
| 8.    | PAINTING DEATAILS:                                    |                                       |                  |  |                     |                   |
|       |   | TYPE OF PAINT                         |                  | MAKE   | AVERAGE GLOSS VALUE |                   |
| 8.1   | PAINT   | PU PAINT                              |                  | <b>VIBGYOR</b>   | <b>85/86</b>        |                   |
| 8.2   | APPLICATION OF PCN-123                                |                                       |                  | <b>SATISFACTORY</b>  |                     |                   |
| 8.3   | INSUALTION  |                                       |                  | <b>SATISFACTORY</b>  |                     |                   |
| 9.    | Traceability of Furnishing Items:                     |                                       |                  |  |                     |                   |
| i.    | BRAKE EQUIPMENT                                       |                                       |                  | Make<br><b>ESCORTS</b>   |                     |                   |
| ii.   | SEAT & BERTH  |                                       |                  | <b>SAVITRI</b>   |                     |                   |
| iii.  | WATER TANKS   |                                       |                  | <b>AMIT,SHIVALIK, RAIL FAB</b>                                       |                     |                   |
| iv.   | PVC   |                                       |                  | <b>RESPONSIVE</b>  |                     |                   |
| v.    | FLOOR BOARD   |                                       |                  | <b>TAYAL</b>   |                     |                   |
| vi.   | UIC VESTIBULE   |                                       |                  | <b>KRP</b>   |                     |                   |
| vii.  | LAV. DOORS  |                                       |                  | <b>DHINJAN</b>   |                     |                   |
| viii. | LP SHEET  |                                       |                  | <b>LP</b>  |                     |                   |
| ix)   | BIO- TOILET   |                                       |                  | <b>DARSHAN</b>   |                     |                   |
| 10    | 10.1  | Modification/ Trial (if any):         |                  |  | <b>NIL</b>          |                   |
| .     | 10.2  | Deviations (if any):                  |                  |  | <b>NIL</b>          |                   |



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|------|--|---|-----------|-----------|-----------|-----------|-----------|-----------|---------------|
| 12.  | Bogie Details:   | Shell No.                               | Railway   |           | Type      |           | Coach No. |           | Dispatch Date |
|      |  | 4158                                    | NFR       |           | WGACCN    |           | 14139     |           | 08-01-2015    |
| 12.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' |   |           |           |           |           |           |           |               |
| 12.2 | Wheel & Axle Details:                                  | PP Side                                 |           |           |           | NPP Side  |           |           |               |
|      | i. Bogie No.   | 153012                                  |           |           |           | 153013    |           |           |               |
|      | ii. Frame No.  | UBLS-1053                               |           |           |           | UBLS-1035 |           |           |               |
|      | iii. Axle No.  | A-5852                                  |           | P-6048    |           | Y-7776    |           | U-7156    |               |
|      | iv. Wheel Diameter                                     | 917.00                                  | 917.00    | 917.00    | 917.00    | 917.00    | 917.00    | 917.00    | 917.00        |
|      | v. Wheel Disc No.                                      | 09135/278                               | 09114/380 | 08082/368 | 07104/279 | 7109/373  | 06372/286 | 09154/262 | 09119/258     |
|      | vi. R.B. Nos.  | V1022                                   | V1070     | V1258     | V1161     | V944      | V1275     | V1271     | V1270         |
|      | vii. R.B. Make   | FAG                                     |           | FAG       |           | FAG       |           | FAG       |               |
|      | viii. R.B. Type  | Direct Mounted Spherical Roller Bearing |           |           |           |           |           |           |               |
| 12.3 | <u>Items Traceability:</u>                             |   |           |           |           |           |           |           |               |
|      | i.   | BRAKE CYLINDER (Make)                   |           |           |           | PEW       |           |           |               |
|      | ii.  | SECONDARY Shock Absorber (Make)         |           |           |           | K/B       |           |           |               |
| 12.4 | i.   | Modification/ Trail (if any):           |           |           |           | NIL       |           |           |               |
|      | ii.  | Deviations (if any):                    |           |           |           | NIL       |           |           |               |

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