



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. :

QMF4254;  
Version: 05

|       |   |   |                            |  |                     |                     |
|-------|---|---|----------------------------|--|---------------------|---------------------|
| 1.    | SHELL No:   | <b>4102</b>                                       | DISPATCH DATE:             |  |                     | <b>25.04.2015</b>   |
| 2.    | RAILWAY   | <b>SWR</b>  | Type:                      | <b>WGSCN</b>   | Coach No.:          | <b>15227</b>        |
| 3.    | Booked to   | <b>SSE/C&amp;W/SBC</b>                            |                            |  |                     |                     |
| 4.    | Tare Weight of Coach :                                | <b>38.03</b>                                      |                            |  |                     |                     |
| 5.    | Carrying Capacity :                                   | Seating:  | <b>72</b>                  | Sleeping:  | <b>72</b>           | Luggage: <b>NIL</b> |
| 6.    | Shell Details: SE90017                                |   |                            |  |                     |                     |
| 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  |                     |                     |
| vii)  | Buffer/CBC Height                                     | Specified : 1104 +0 /-10 mm                       |                            | <b>1104/1103</b>   | <b>1104/1104</b>    |                     |
| viii) | Buffer/CBC (Make )                                    |   |                            | <b>HEPL</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/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  |                            | <b>AUSTIN</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:                     |   |                            | Make   |                     |                     |
| i.    | BRAKE EQUIPMENT                                       |   |                            | <b>FAIVELEY</b>  |                     |                     |
| ii.   | SEAT & BERTH  |   |                            | <b>OVPL</b>  |                     |                     |
| iii.  | WATER TANKS   |   |                            | <b>AMIT</b>  |                     |                     |
| iv.   | PVC   |   |                            | <b>RESPONSIVE</b>  |                     |                     |
| v.    | FLOOR BOARD   |   |                            | <b>TAYAL</b>   |                     |                     |
| vi.   | UIC VESTIBULE   |   |                            | <b>KRP</b>   |                     |                     |
| vii.  | WINDOWS   |   |                            | <b>AGF,ABC, MECIDON</b>  |                     |                     |
| viii. | LAV. DOORS  |   |                            | <b>DHINJAN</b>   |                     |                     |
| ix)   | LP SHEET  |   |                            | <b>NK</b>  |                     |                     |
| x)    | BIO- TOILET   |   |                            | <b>DARSHAN</b>   |                     |                     |
| 10.   | 10.1  | Modification/ Trial (if any):                     |                            | <b>NIL</b>   |                     |                     |
|       | 10.2  | Deviations (if any):                              |                            | <b>NIL</b>   |                     |                     |



रेल डिब्बा कारखाना, कपूरथला  
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Page 2 of 3

|      |   |  |   |                 |                 |                 |                 |                  |                 |                      |  |
|------|---|--|---|-----------------|-----------------|-----------------|-----------------|------------------|-----------------|----------------------|--|
| 12.  | <b>Bogie Details:</b>   | <b>Shell No.</b>                       |   | <b>Railway</b>  |                 | <b>Type</b>     |                 | <b>Coach No.</b> |                 | <b>Dispatch Date</b> |  |
|      |   | 4102                                   |   | SWR             |                 | WGSCN           |                 | 15227            |                 | 27-03-2015           |  |
| 12.1 | <b>BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a'</b> |  |   |                 |                 |                 |                 |                  |                 |                      |  |
| 12.2 | <b>Wheel &amp; Axle Details:</b>                              |  | <b>PP Side</b>                          |                 |                 |                 | <b>NPP Side</b> |                  |                 |                      |  |
|      | i.  | <b>Bogie No.</b>                       | 150337                                  |                 |                 |                 | 150335          |                  |                 |                      |  |
|      | ii.   | <b>Frame No.</b>                       | ASR-22                                  |                 |                 |                 | ASR-1083        |                  |                 |                      |  |
|      | iii.  | <b>Axle No.</b>                        | 10424                                   |                 | S-7579          |                 | A-4676          |                  | A-3634          |                      |  |
|      | iv.   | <b>Wheel Diameter</b>                  | 916.00                                  | 916.00          | 916.00          | 916.00          | 917.00          | 917.00           | 917.00          | 917.00               |  |
|      | v.  | <b>Wheel Disc No.</b>                  | 09350/<br>13353                         | 09355/<br>13353 | 60867/<br>08510 | 05697/<br>13736 | 06031/<br>13448 | 05999/<br>13448  | 06681/<br>13094 | 06198/<br>13094      |  |
|      | vi.   | <b>R.B. Nos.</b>                       | A-1494                                  | A-1406          | A-1388          | A-1327          | J-2051          | J-2057           | J-2068          | J-2052               |  |
|      | vii.  | <b>R.B. Make</b>                       | NBC                                     |                 | NBC             |                 | NBC             |                  | NBC             |                      |  |
|      | viii.   | <b>R.B. Type</b>                       | Direct Mounted Spherical Roller Bearing |                 |                 |                 |                 |                  |                 |                      |  |
| 12.3 | <b>Items Traceability:</b>                                    |  |   |                 |                 |                 |                 |                  |                 |                      |  |
|      | i.  | <b>BRAKE CYLINDER (Make)</b>           |   |                 |                 |                 | AJT             |                  |                 |                      |  |
|      | ii.   | <b>SECONDARY Shock Absorber (Make)</b> |   |                 |                 |                 | KNORR BREMSE    |                  |                 |                      |  |
| 12.4 | i.  | <b>Modification/ Trail (if any):</b>   |   |                 |                 |                 | NIL             |                  |                 |                      |  |
|      | ii.   | <b>Deviations (if any):</b>            |   |                 |                 |                 | NIL             |                  |                 |                      |  |

**WGSCN-4102**



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

Page 1 of 3

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QMF4254;  
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|       |   |   |                            |  |                     |                     |
|-------|---|---|----------------------------|--|---------------------|---------------------|
| 1.    | SHELL No:   | <b>4109</b>                                       | DISPATCH DATE:             |  |                     | <b>27.04.2015</b>   |
| 2.    | RAILWAY   | <b>SWR</b>  | Type:                      | <b>WGSCN</b>   | Coach No.:          | <b>15221</b>        |
| 3.    | Booked to   | <b>SSE/C&amp;W/SBC</b>                            |                            |  |                     |                     |
| 4.    | Tare Weight of Coach :                                | <b>38.03</b>                                      |                            |  |                     |                     |
| 5.    | Carrying Capacity :                                   | Seating:  | <b>72</b>                  | Sleeping:  | <b>72</b>           | Luggage: <b>NIL</b> |
| 6.    | Shell Details: SE90017                                |   |                            |  |                     |                     |
| 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  |                     |                     |
| vii)  | Buffer/CBC Height                                     | Specified : 1104 +0 /-10 mm                       |                            | <b>1104/1104</b>   | <b>1104/1104</b>    |                     |
| viii) | Buffer/CBC (Make )                                    |   |                            | <b>HEPL</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/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  |                            | <b>APEX</b>  | <b>85/85</b>        |                     |
| 8.2   | APPLICATION OF PCN-123                                |   | <b>SATISFACTORY</b>        |  |                     |                     |
| 8.3   | INSUALTION  |   | <b>SATISFACTORY</b>        |  |                     |                     |
| 9.    | Traceability of Furnishing Items:                     |   |                            | Make   |                     |                     |
| i.    | BRAKE EQUIPMENT                                       |   |                            | <b>FAIVELEY</b>  |                     |                     |
| ii.   | SEAT & BERTH  |   |                            | <b>OVPL</b>  |                     |                     |
| iii.  | WATER TANKS   |   |                            | <b>AMIT</b>  |                     |                     |
| iv.   | PVC   |   |                            | <b>RESPONSIVE</b>  |                     |                     |
| v.    | FLOOR BOARD   |   |                            | <b>TAYAL</b>   |                     |                     |
| vi.   | UIC VESTIBULE   |   |                            | <b>ESCORTS</b>   |                     |                     |
| vii.  | WINDOWS   |   |                            | <b>ABC, MECIDON</b>  |                     |                     |
| viii. | LAV. DOORS  |   |                            | <b>DHINJAN</b>   |                     |                     |
| ix)   | LP SHEET  |   |                            | <b>NA</b>  |                     |                     |
| x)    | BIO- TOILET   |   |                            | <b>OASIS</b>   |                     |                     |
| 10.   | 10.1  | Modification/ Trial (if any):                     |                            |  | <b>NIL</b>          |                     |
|       | 10.2  | Deviations (if any):                              |                            |  | <b>NIL</b>          |                     |



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

Page 2 of 3

| 12.  | Bogie Details:   | Shell No.                       |   | Railway   |           | Type      |              | Coach No. |           | Dispatch Date |  |
|------|--|---------------------------------|---|-----------|-----------|-----------|--------------|-----------|-----------|---------------|--|
|      |  | 4109                            |   | SWR       |           | WGSCN     |              | 15221     |           | 04-04-2015    |  |
| 12.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' |                                 |   |           |           |           |              |           |           |               |  |
| 12.2 | Wheel & Axle Details:                                  |                                 | PP Side                                 |           |           |           | NPP Side     |           |           |               |  |
|      | i.   | Bogie No.                       | 150390                                  |           |           |           | 150388       |           |           |               |  |
|      | ii.  | Frame No.                       | ASR-0972                                |           |           |           | UBLS-1326    |           |           |               |  |
|      | iii.   | Axle No.                        | 10475                                   |           | A-3859    |           | 10364        |           | A-4322    |               |  |
|      | iv.  | Wheel Diameter                  | 916.00                                  | 916.00    | 917.00    | 917.00    | 916.00       | 916.00    | 917.00    | 917.00        |  |
|      | v.   | Wheel Disc No.                  | 10301/286                               | 10201/275 | 05658/282 | 08073/314 | 10359/239    | 10301/270 | 08086/268 | 08081/201     |  |
|      | vi.  | R.B. Nos.                       | J1904                                   | J1902     | A1502     | A1556     | J1917        | J1889     | M3221     | M3219         |  |
|      | 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          |           |           |               |  |

**WGSCN-4109**