



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. :

QMF4254;  
Version: 05

|     |                                   |   |  |  |                     |              |
|-----|-----------------------------------|---|--|--|---------------------|--------------|
| 1.  | SHELL No:                         | 4459  | DISPATCH DATE:                                     |  |                     | 13.12.2014   |
| 2.  | RAILWAY                           | SR  | Type:  | GS   | Coach No.:          | 14488        |
| 3.  | Booked to                         | SSE/C&W/PER   |  |  |                     |              |
| 4.  | Tare Weight of Coach :            | 36.99T  |  |  |                     |              |
| 5.  | Carrying Capacity :               | Seating:  | 90   | Sleeping:  | NIL                 | 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 | 200 mm   |  |                     |              |
|     | vii)                              | Buffer/CBC Height                                     | Specified : 1104 +0 /-10 mm                        | 1104/1104  | 1104 /1104          |              |
|     | viii)                             | Buffer/CBC (Make )                                    | REPL   |  |                     |              |
|     | ix)                               | Draw Gear (Make)                                      | EMSON  |  |                     |              |
| 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   | VIBGYOR  | 85/86               |              |
|     | 8.2                               | APPLICATION OF PCN-123                                |  | SATISFACTORY   |                     |              |
|     | 8.3                               | INSUALTION  |  | SATISFACTORY   |                     |              |
| 9.  | Traceability of Furnishing Items: |   |  | Make   |                     |              |
|     | i.                                | BRAKE EQUIPMENT                                       |  | ESCORTS  |                     |              |
|     | ii.                               | SEAT & BERTH  |  | MANOJ  |                     |              |
|     | iii.                              | WATER TANKS   |  | AMIT   |                     |              |
|     | iv.                               | PVC   |  | RESPONSIVE   |                     |              |
|     | v.                                | FLOOR BOARD   |  | TAYAL  |                     |              |
|     | vi.                               | WINDOWS   |  | ABC, MECIDON   |                     |              |
|     | vii.                              | LAV. DOORS  |  | JR   |                     |              |
|     | viii.                             | LP SHEET  |  | NA   |                     |              |
|     | ix)                               | BIO- TOILET   |  | COMPETENT  |                     |              |
| 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 |               |               |               |               |
|      |  | 4459                            | SR                                      | GS            | 14488         | 16-09-2014    |               |               |               |               |
| 12.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' |                                 |   |               |               |               |               |               |               |               |
| 12.2 | Wheel & Axle Details:                                  | PP Side                         |   |               |               | NPP Side      |               |               |               |               |
|      | i.   | Bogie No.                       | 141186                                  |               |               |               | 141180        |               |               |               |
|      | ii.  | Frame No.                       | UBLS-1105                               |               |               |               | ASR-393       |               |               |               |
|      | iii.   | Axle No.                        | S-9506                                  |               | V-0158        |               | U-9691        |               | U-9407        |               |
|      | iv.  | Wheel Diameter                  | 917.00                                  | 917.00        | 918.00        | 918.00        | 917.00        | 917.00        | 918.00        | 918.00        |
|      | v.   | Wheel Disc No.                  | 06399/<br>206                           | 06396/<br>385 | 03867/<br>238 | 08063/<br>257 | 05925/<br>370 | 07030/<br>230 | 07096/<br>276 | 08077/36<br>8 |
|      | vi.  | R.B. Nos.                       | U-1666                                  | U-1655        | T-2342        | T-2422        | U-43          | V-2469        | T-1707        | T-1468        |
|      | vii.   | R.B. Make                       | FAG                                     |               | FAG           |               | FAG           |               | FAG           |               |
|      | viii.  | R.B. Type                       | Direct Mounted Spherical Roller Bearing |               |               |               |               |               |               |               |
| 12.3 | Items Traceability:                                    |                                 |   |               |               |               |               |               |               |               |
|      | i.   | BRAKE CYLINDER (Make)           |   |               |               | AJT           |               |               |               |               |
|      | ii.  | SECONDARY Shock Absorber (Make) |   |               |               | KNORR-BREMSE  |               |               |               |               |
| 12.4 | i.   | Modification/ Trail (if any):   |   |               |               | NIL           |               |               |               |               |
|      | ii.  | Deviations (if any):            |   |               |               | NIL           |               |               |               |               |

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ROLLING STOCK CERTIFICATE

Form No. :

QMF4254;  
Version: 05

|       |   |   |  |  |            |                     |
|-------|---|---|--|--|------------|---------------------|
| 1.    | SHELL No:   | <b>4451</b>                                       | DISPATCH DATE:                                     |  |            | <b>13.12.2014</b>   |
| 2.    | RAILWAY   | <b>SR</b>   | Type:  | <b>GS</b>  | Coach No.: | <b>14486</b>        |
| 3.    | Booked to   | <b>SSE/C&amp;W/PER</b>                            |  |  |            |                     |
| 4.    | Tare Weight of Coach :                                | <b>36.99T</b>                                     |  |  |            |                     |
| 5.    | Carrying Capacity :                                   | Seating:  | <b>90</b>  | Sleeping:  | <b>NIL</b> | 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 |   | 200 mm   |  |            |                     |
| vii)  | Buffer/CBC Height                                     | Specified : 1104 +0 /-10 mm                       | <b>1104/1104</b>                                   |  |            | <b>1104 /1104</b>   |
| viii) | Buffer/CBC (Make )                                    |   | <b>JLS</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>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:                     |   |  | Make   |            |                     |
| i.    | BRAKE EQUIPMENT                                       |   |  | <b>ESCORTS</b>   |            |                     |
| ii.   | SEAT & BERTH  |   |  | <b>MANOJ</b>   |            |                     |
| iii.  | WATER TANKS   |   |  | <b>AMIT</b>  |            |                     |
| iv.   | PVC   |   |  | <b>RESPONSIVE</b>  |            |                     |
| v.    | FLOOR BOARD   |   |  | <b>TAYAL</b>   |            |                     |
| vi.   | WINDOWS   |   |  | <b>ABC, MECIDON</b>  |            |                     |
| vii.  | LAV. DOORS  |   |  | <b>JR</b>  |            |                     |
| viii. | LP SHEET  |   |  | <b>NA</b>  |            |                     |
| ix)   | BIO- TOILET   |   |  | <b>COMPETENT</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 |           |
|      |  | 4451                            | SR                                      |           | GS        |              | 14486     |           | 29-09-2014    |           |
| 12.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' |                                 |   |           |           |              |           |           |               |           |
| 12.2 | Wheel & Axle Details:                                  | PP Side                         |   |           |           | NPP Side     |           |           |               |           |
|      | i.   | Bogie No.                       | 141229                                  |           |           |              | 141122    |           |               |           |
|      | ii.  | Frame No.                       | ASR-383                                 |           |           |              | ASR-310   |           |               |           |
|      | iii.   | Axle No.                        | V-9220                                  |           | U-4499    |              | 930       |           | S-5690        |           |
|      | iv.  | Wheel Diameter                  | 916.00                                  | 916.00    | 918.00    | 918.00       | 916.00    | 916.00    | 916.00        | 916.00    |
|      | v.   | Wheel Disc No.                  | 08794/278                               | 08764/378 | 08758/224 | 08767/386    | 08763/300 | 08769/247 | 08771/278     | 08799/297 |
|      | vi.  | R.B. Nos.                       | U-2350                                  | U-739     | T-2614    | T-2337       | T2064     | U723      | T2092         | T1972     |
|      | 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)           |   |           |           | AJT          |           |           |               |           |
|      | ii.  | SECONDARY Shock Absorber (Make) |   |           |           | KNORR-BREMSE |           |           |               |           |
| 12.4 | i.   | Modification/ Trail (if any):   |   |           |           | NIL          |           |           |               |           |
|      | ii.  | Deviations (if any):            |   |           |           | NIL          |           |           |               |           |

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**ROLLING STOCK CERTIFICATE**

Form No. :

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Version: 05

|       |   |                                       |                            |  |                     |                     |
|-------|---|---------------------------------------|----------------------------|--|---------------------|---------------------|
| 1.    | SHELL No:   | <b>4458</b>                           | DISPATCH DATE:             |  |                     | <b>15.12.2014</b>   |
| 2.    | RAILWAY   | <b>SR</b>                             | Type:                      | <b>GS</b>  | Coach No.:          | <b>14487</b>        |
| 3.    | Booked to   | <b>SSE/C&amp;W/PER</b>                |                            |  |                     |                     |
| 4.    | Tare Weight of Coach :                                | <b>36.99T</b>                         |                            |  |                     |                     |
| 5.    | Carrying Capacity :                                   | Seating:                              | 90                         | Sleeping:  | <b>NIL</b>          | 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 |                                       |                            | 200 mm   |                     |                     |
| vii)  | Buffer/CBC Height                                     | Specified : 1104 +0 /-10 mm           |                            | <b>1104/1104</b>   | <b>1104 /1104</b>   |                     |
| viii) | Buffer/CBC (Make )                                    |                                       |                            | <b>JLS</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:                     |                                       |                            | Make   |                     |                     |
| i.    | BRAKE EQUIPMENT                                       |                                       |                            | <b>ESCORTS</b>   |                     |                     |
| ii.   | SEAT & BERTH  |                                       |                            | <b>MANOJ</b>   |                     |                     |
| iii.  | WATER TANKS   |                                       |                            | <b>AMIT</b>  |                     |                     |
| iv.   | PVC   |                                       |                            | <b>RESPONSIVE</b>  |                     |                     |
| v.    | FLOOR BOARD   |                                       |                            | <b>TAYAL</b>   |                     |                     |
| vi.   | WINDOWS   |                                       |                            | <b>ABC, MECIDON</b>  |                     |                     |
| vii.  | LAV. DOORS  |                                       |                            | <b>JR</b>  |                     |                     |
| viii. | LP SHEET  |                                       |                            | <b>NA</b>  |                     |                     |
| ix)   | BIO- TOILET   |                                       |                            | <b>COMPETENT</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 |               |               |               |               |  |
|      |  | 4458                            | SR                                      | GS            | 14487         | 11-11-2014    |               |               |               |               |  |
| 12.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' |                                 |   |               |               |               |               |               |               |               |  |
| 12.2 | Wheel & Axle Details:                                  | PP Side                         |   |               |               | NPP Side      |               |               |               |               |  |
|      | i.   | Bogie No.                       | 141422                                  |               |               |               | 141418        |               |               |               |  |
|      | ii.  | Frame No.                       | ASR-538                                 |               |               |               | ASR-578       |               |               |               |  |
|      | iii.   | Axle No.                        | T-3155                                  |               | U-9859        |               | RWF-110458    |               | RWF-92939     |               |  |
|      | iv.  | Wheel Diameter                  | 916.00                                  | 916.00        | 917.00        | 917.00        | 917.00        | 917.00        | 917.00        | 917.00        |  |
|      | v.   | Wheel Disc No.                  | 07211/<br>252                           | 07315/<br>249 | 07088/<br>266 | 07214/<br>228 | 07203/<br>262 | 08888/<br>248 | 07238/<br>384 | 06898/26<br>1 |  |
|      | vi.  | R.B. Nos.                       | V-1890                                  | S-421         | S-1679        | T-2252        | V-1253        | V-1182        | V-1419        | V-1348        |  |
|      | 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) |   |               |               |               | GABRIEL       |               |               |               |  |
| 12.4 | i.   | Modification/ Trail (if any):   |   |               |               |               | NIL           |               |               |               |  |
|      | ii.  | Deviations (if any):            |   |               |               |               | NIL           |               |               |               |  |



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Version: 05

|       |   |  |  |                     |                   |              |
|-------|---|--|--|---------------------|-------------------|--------------|
| 1.    | SHELL No:   | <b>4453</b>  | DISPATCH DATE:   |                     | <b>15.12.2014</b> |              |
| 2.    | RAILWAY   | <b>SR</b>  | Type:  | <b>GS</b>           | Coach No.:        | <b>14490</b> |
| 3.    | Booked to   | <b>SSE/C&amp;W/PER</b>                             |  |                     |                   |              |
| 4.    | Tare Weight of Coach :                                | <b>36.99T</b>                                      |  |                     |                   |              |
| 5.    | Carrying Capacity :                                   | Seating: 90  | Sleeping: <b>NIL</b>   | 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 | 200 mm   |  |                     |                   |              |
| vii)  | Buffer/CBC Height                                     | Specified : 1104 +0 /-10 mm                        | <b>1104/1104</b>   | <b>1104 /1104</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>85/85</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>MANOJ</b>   |                     |                   |              |
| iii.  | WATER TANKS   |  | <b>AMIT</b>  |                     |                   |              |
| iv.   | PVC   |  | <b>RESPONSIVE</b>  |                     |                   |              |
| v.    | FLOOR BOARD   |  | <b>TAYAL</b>   |                     |                   |              |
| vi.   | WINDOWS   |  | <b>ABC, MECIDON</b>  |                     |                   |              |
| vii.  | LAV. DOORS  |  | <b>JR</b>  |                     |                   |              |
| viii. | LP SHEET  |  | <b>PUNJAB LAMINATE</b>   |                     |                   |              |
| ix)   | BIO- TOILET   |  | <b>COMPETENT</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 |           |           |           |           |
|      |  | 4453                            | SR                                      | GS        | 14490     | 08-12-2014    |           |           |           |           |
| 12.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' |                                 |   |           |           |               |           |           |           |           |
| 12.2 | Wheel & Axle Details:                                  | PP Side                         |   |           |           | NPP Side      |           |           |           |           |
|      | i.   | Bogie No.                       | 141570                                  |           |           |               | 141573    |           |           |           |
|      | ii.  | Frame No.                       | UBLS-1206                               |           |           |               | ASR-702   |           |           |           |
|      | iii.   | Axle No.                        | U-7135                                  |           | T-3315    |               | Y-7265    |           | U-7121    |           |
|      | iv.  | Wheel Diameter                  | 916.00                                  | 916.00    | 916.00    | 916.50        | 916.00    | 916.00    | 916.00    | 916.00    |
|      | v.   | Wheel Disc No.                  | 08088/373                               | 08063/233 | 09138/202 | 07246/231     | 08999/371 | 09031/227 | 97266/239 | 08092/274 |
|      | vi.  | R.B. Nos.                       | T3042                                   | S531      | S605      | S529          | S-530     | V1400     | S-517     | S869      |
|      | 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)           |   |           |           | AJT           |           |           |           |           |
|      | ii.  | SECONDARY Shock Absorber (Make) |   |           |           | GABRIAL       |           |           |           |           |
| 12.4 | i.   | Modification/ Trail (if any):   |   |           |           | NIL           |           |           |           |           |
|      | ii.  | Deviations (if any):            |   |           |           | NIL           |           |           |           |           |

GS-4453





**ROLLING STOCK CERTIFICATE**

Form No. :

QMF4254;  
Version: 05

|       |   |  |  |                     |            |                     |
|-------|---|--|--|---------------------|------------|---------------------|
| 1.    | SHELL No:   | <b>4470</b>  | DISPATCH DATE:   |                     |            | <b>17.12.2014</b>   |
| 2.    | RAILWAY   | <b>SR</b>  | Type:  | <b>GS</b>           | Coach No.: | <b>14493</b>        |
| 3.    | Booked to   | <b>SSE/C&amp;W/PER</b>                             |  |                     |            |                     |
| 4.    | Tare Weight of Coach :                                | <b>36.99T</b>                                      |  |                     |            |                     |
| 5.    | Carrying Capacity :                                   | Seating:   | <b>90</b>  | Sleeping:           | <b>NIL</b> | 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 | 200 mm   |  |                     |            |                     |
| vii)  | Buffer/CBC Height                                     | Specified : 1104 +0 /-10 mm                        | <b>1104/1104</b>   | <b>1104 /1104</b>   |            |                     |
| viii) | Buffer/CBC (Make )                                    | <b>JLS</b>   |  |                     |            |                     |
| ix)   | Draw Gear (Make)                                      | <b>CFPL</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>VIBGYOR</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:                     |  |  |                     |            |                     |
| i.    | BRAKE EQUIPMENT                                       |  | Make<br><b>ESCORTS</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.   | WINDOWS   |  | <b>ABC, AGF, MFTC, MECIDON</b>                                       |                     |            |                     |
| vii.  | LAV. DOORS  |  | <b>JR</b>  |                     |            |                     |
| viii. | LP SHEET  |  | <b>PUNJAB LAMINATE</b>   |                     |            |                     |
| ix)   | BIO- TOILET   |  | <b>M K PRECISION</b>   |                     |            |                     |
| 10.   | 10.1  | Modification/ Trial (if any):                      |  |                     | <b>NIL</b> |                     |
|       | 10.2  | Deviations (if any):                               |  |                     | <b>NIL</b> |                     |



|       |  |   |                 |                 |                 |                 |                 |                 |                 |                 |
|-------|--|---|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 12.   | Bogie Details:   | Shell No.                               | Railway         |                 | Type            | Coach No.       |                 | Dispatch Date   |                 |                 |
|       |  | 4470                                    | SR              |                 | GS              | 14493           |                 | 08-12-2014      |                 |                 |
| 12.1  | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' |   |                 |                 |                 |                 |                 |                 |                 |                 |
| 12.2  | Wheel & Axle Details:                                  | PP Side                                 |                 |                 |                 | NPP Side        |                 |                 |                 |                 |
|       | i.   | Bogie No.                               | 141566          |                 |                 |                 | 141468          |                 |                 |                 |
|       | ii.  | Frame No.                               | UBLS-1201       |                 |                 |                 | ASR-553         |                 |                 |                 |
|       | iii.   | Axle No.                                | Y-6633          |                 | P-3424          |                 | 3573            |                 | RWF-92610       |                 |
|       | iv.  | Wheel Diameter                          | 915.00          | 915.00          | 913.00          | 913.00          | 909.00          | 909.00          | 909.00          | 909.00          |
|       | v.   | Wheel Disc No.                          | 62744/<br>08675 | 62772/<br>08675 | 62816/<br>08675 | 62743/<br>08675 | 45902/<br>06043 | 48546/<br>06216 | 03385/<br>12547 | 68238/09<br>429 |
|       | vi.  | R.B. Nos.                               | V1276           | V1306           | S-539           | S-540           | S-513           | V1861           | U2484           | U315            |
|       | 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)                   |                 |                 |                 | AJT             |                 |                 |                 |                 |
|       | ii.  | SECONDARY Shock Absorber (Make)         |                 |                 |                 | GABRIAL         |                 |                 |                 |                 |
| 12.4  | i.   | Modification/ Trail (if any):           |                 |                 |                 | NIL             |                 |                 |                 |                 |
|       | ii.  | Deviations (if any):                    |                 |                 |                 | LESS WHEEL DIA  |                 |                 |                 |                 |

GS-4470



**ROLLING STOCK CERTIFICATE**

Form No. :

QMF4254;  
Version: 05

|       |   |                                       |                            |  |                     |                   |            |
|-------|---|---------------------------------------|----------------------------|--|---------------------|-------------------|------------|
| 1.    | SHELL No:   | <b>4469</b>                           | DISPATCH DATE:             |  |                     | <b>17.12.2014</b> |            |
| 2.    | RAILWAY   | <b>SR</b>                             | Type:                      | <b>GS</b>  | Coach No.:          | <b>14494</b>      |            |
| 3.    | Booked to   | <b>SSE/C&amp;W/PER</b>                |                            |  |                     |                   |            |
| 4.    | Tare Weight of Coach :                                | <b>36.99T</b>                         |                            |  |                     |                   |            |
| 5.    | Carrying Capacity :                                   | Seating:                              | 90                         | Sleeping:  | <b>NIL</b>          | 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 |                                       |                            | 200 mm   |                     |                   |            |
| vii)  | Buffer/CBC Height                                     | Specified : 1104 +0 /-10 mm           |                            | <b>1104/1103</b>   | <b>1104 /1104</b>   |                   |            |
| viii) | Buffer/CBC (Make )                                    |                                       |                            | <b>JLS</b>   |                     |                   |            |
| ix)   | Draw Gear (Make)                                      |                                       |                            | <b>CFPL</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>85/85</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>ESCORTS</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.   | WINDOWS   |                                       |                            | <b>ABC, AGF, MECIDON</b>   |                     |                   |            |
| vii.  | LAV. DOORS  |                                       |                            | <b>JR</b>  |                     |                   |            |
| viii. | LP SHEET  |                                       |                            | <b>NK</b>  |                     |                   |            |
| ix)   | BIO- TOILET   |                                       |                            | <b>M K PRECISION</b>   |                     |                   |            |
| 10.   | 10.1  | Modification/ Trial (if any):         |                            |  | <b>NIL</b>          |                   |            |
|       | 10.2  | Deviations (if any):                  |                            |  | <b>NIL</b>          |                   |            |



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Rail Coach Factory , Kapurthala

|      |   |  |   |             |                  |                      |           |           |           |           |  |
|------|---|--|---|-------------|------------------|----------------------|-----------|-----------|-----------|-----------|--|
| 12.  | <b>Bogie Details:</b>   | <b>Shell No.</b>                       | <b>Railway</b>                          | <b>Type</b> | <b>Coach No.</b> | <b>Dispatch Date</b> |           |           |           |           |  |
|      |   | 4469                                   | NR                                      | GS          | 14494            | 09-12-2014           |           |           |           |           |  |
| 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>                       | 141564                                  |             |                  |                      | 141563    |           |           |           |  |
|      | ii.   | <b>Frame No.</b>                       | ASR-717                                 |             |                  |                      | RBO-1207  |           |           |           |  |
|      | iii.  | <b>Axle No.</b>                        | P-5712                                  |             | T-5071           |                      | V-4087    |           | A-5542    |           |  |
|      | iv.   | <b>Wheel Diameter</b>                  | 917.00                                  | 917.00      | 917.00           | 917.00               | 917.00    | 917.00    | 917.00    | 917.00    |  |
|      | v.  | <b>Wheel Disc No.</b>                  | 09167/212                               | 08891/369   | 08946/236        | 08891/384            | 07144/208 | 07124/274 | 07103/298 | 06762/230 |  |
|      | vi.   | <b>R.B. Nos.</b>                       | V1446                                   | V1443       | V1438            | V1435                | V1398     | V920      | V1430     | V937      |  |
|      | vii.  | <b>R.B. Make</b>                       | FAG                                     |             | FAG              |                      | FAG       |           | FAG       |           |  |
|      | 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> |   |             |                  |                      | GABRIAL   |           |           |           |  |
| 12.4 | i.  | <b>Modification/ Trail (if any):</b>   |   |             |                  |                      | NIL       |           |           |           |  |
|      | ii.   | <b>Deviations (if any):</b>            |   |             |                  |                      | NIL       |           |           |           |  |



## रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. :

QMF4254;

Version: 05

|     |                                   |   |  |  |                     |                     |
|-----|-----------------------------------|---|--|--|---------------------|---------------------|
| 1.  | SHELL No:                         | <b>4465</b>   | DISPATCH DATE:                                     |  |                     | <b>19.12.2014</b>   |
| 2.  | RAILWAY                           | <b>SR</b>   | Type:  | <b>GS</b>  | Coach No.:          | <b>14498</b>        |
| 3.  | Booked to                         | <b>SSE/C&amp;W/PER</b>                                |  |  |                     |                     |
| 4.  | Tare Weight of Coach :            | <b>36.99T</b>   |  |  |                     |                     |
| 5.  | Carrying Capacity :               | Seating:  | 90   | Sleeping:  | <b>NIL</b>          | 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 | 200 mm   |  |                     |                     |
|     | vii)                              | Buffer/CBC Height                                     | Specified : 1104 +0 /-10 mm                        | <b>1104/1104</b>   | <b>1104 /1104</b>   |                     |
|     | viii)                             | Buffer/CBC (Make )                                    |  |  |                     | <b>JLS</b>          |
|     | ix)                               | Draw Gear (Make)                                      |  |  |                     | <b>CFPL</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>85/85</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                                       |  | ESCORTS  |                     |                     |
|     | ii.                               | SEAT & BERTH  |  | AAR KAY FOAMS  |                     |                     |
|     | iii.                              | WATER TANKS   |  | AMIT   |                     |                     |
|     | iv.                               | PVC   |  | RESPONSIVE   |                     |                     |
|     | v.                                | FLOOR BOARD   |  | TAYAL  |                     |                     |
|     | vi.                               | WINDOWS   |  | ABC, AGF, MECIDON  |                     |                     |
|     | vii.                              | LAV. DOORS  |  | JR   |                     |                     |
|     | viii.                             | LP SHEET  |  | NA   |                     |                     |
|     | ix)                               | BIO- TOILET   |  | DARSHAN  |                     |                     |
| 10. | 10.1                              | Modification/ Trial (if any):                         |  |  | NIL                 |                     |
|     | 10.2                              | Deviations (if any):                                  |  |  | NIL                 |                     |



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Rail Coach Factory , Kapurthala

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|      |  |                                 |   |           |           |                |           |           |           |           |
|------|--|---------------------------------|---|-----------|-----------|----------------|-----------|-----------|-----------|-----------|
| 12.  | Bogie Details:   | Shell No.                       | Railway                                 | Type      | Coach No. | Dispatch Date  |           |           |           |           |
|      |  | 4465                            | SR                                      | GS        | 14498     | 15-12-2014     |           |           |           |           |
| 12.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' |                                 |   |           |           |                |           |           |           |           |
| 12.2 | Wheel & Axle Details:                                  | PP Side                         |   |           |           | NPP Side       |           |           |           |           |
|      | i.   | Bogie No.                       | 141591                                  |           |           |                | 141610    |           |           |           |
|      | ii.  | Frame No.                       | RBO-1218                                |           |           |                | ASR-733   |           |           |           |
|      | iii.   | Axle No.                        | RWF-98679                               |           | V-9889    |                | A-5199    |           | A-4884    |           |
|      | iv.  | Wheel Diameter                  | 915.00                                  | 915.00    | 915.00    | 915.00         | 912.00    | 912.00    | 916.00    | 916.00    |
|      | v.   | Wheel Disc No.                  | 08948/247                               | 08946/300 | 04091/274 | 03665/216      | 04256/226 | 03726/250 | 08068/290 | 08068/270 |
|      | vi.  | R.B. Nos.                       | V-2332                                  | S-443     | V-2377    | V-1463         | V-1502    | V-1715    | V-2340    | T-2773    |
|      | 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)           |   |           |           | AJT,PEW        |           |           |           |           |
|      | ii.  | SECONDARY Shock Absorber (Make) |   |           |           | GABRIEL        |           |           |           |           |
| 12.4 | i.   | Modification/ Trail (if any):   |   |           |           | NIL            |           |           |           |           |
|      | ii.  | Deviations (if any):            |   |           |           | LESS WHEEL DIA |           |           |           |           |

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## ROLLING STOCK CERTIFICATE

Form No. :

QMF4254;  
Version: 05

|     |                                   |   |  |  |                     |                   |            |
|-----|-----------------------------------|---|--|--|---------------------|-------------------|------------|
| 1.  | SHELL No:                         | <b>4463</b>   | DISPATCH DATE:                                     |  |                     | <b>20.12.2014</b> |            |
| 2.  | RAILWAY                           | <b>SR</b>   | Type:  | <b>GS</b>  | Coach No.:          | <b>14492</b>      |            |
| 3.  | Booked to                         | <b>SSE/C&amp;W/PER</b>                                |  |  |                     |                   |            |
| 4.  | Tare Weight of Coach :            | <b>36.99T</b>   |  |  |                     |                   |            |
| 5.  | Carrying Capacity :               | Seating:  | 90   | Sleeping:  | <b>NIL</b>          | 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 | 200 mm   |  |                     |                   |            |
|     | vii)                              | Buffer/CBC Height                                     | Specified : 1104 +0 /-10 mm                        | <b>1104/1104</b>   | <b>1100 /1100</b>   |                   |            |
|     | viii)                             | Buffer/CBC (Make )                                    | <b>JLS</b>   |  |                     |                   |            |
|     | ix)                               | Draw Gear (Make)                                      | <b>CFPL</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>APC</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                                       | ESCORTS  |  |                     |                   |            |
|     | ii.                               | SEAT & BERTH  | OVPL   |  |                     |                   |            |
|     | iii.                              | WATER TANKS   | AMIT   |  |                     |                   |            |
|     | iv.                               | PVC   | RESPONSIVE   |  |                     |                   |            |
|     | v.                                | FLOOR BOARD   | TAYAL  |  |                     |                   |            |
|     | vi.                               | WINDOWS   | ABC, NFTC, MECIDON                                 |  |                     |                   |            |
|     | vii.                              | LAV. DOORS  | JR   |  |                     |                   |            |
|     | viii.                             | LP SHEET  | PUNJAB LAMINATE                                    |  |                     |                   |            |
|     | ix)                               | BIO- TOILET   | M K PRECISION                                      |  |                     |                   |            |
| 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 |  |
|      |  | 4463                                    | SR            |               | GS            |               | 14492         |               | 08-12-2014    |  |
| 12.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' |   |               |               |               |               |               |               |               |  |
| 12.2 | Wheel & Axle Details:                                  | PP Side                                 |               |               |               | NPP Side      |               |               |               |  |
|      | i. Bogie No.   | 141559                                  |               |               |               | 141574        |               |               |               |  |
|      | ii. Frame No.  | RBO-1220                                |               |               |               | ASR-604       |               |               |               |  |
|      | iii. Axle No.  | S-5167                                  |               | T-854         |               | T-0029        |               | RWF-92039     |               |  |
|      | iv. Wheel Diameter                                     | 915.50                                  | 915.00        | 917.00        | 917.00        | 916.50        | 916.00        | 916.50        | 916.00        |  |
|      | v. Wheel Disc No.                                      | 03850/<br>235                           | 03853/<br>251 | 09000/<br>378 | 09104/<br>300 | 07214/<br>258 | 08069/<br>216 | 07260/<br>221 | 07114/24<br>6 |  |
|      | vi. R.B. Nos.  | V1266                                   | V1264         | V307          | V1401         | V1444         | V1420         | V1415         | V1426         |  |
|      | 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)                   |               |               |               | AJT           |               |               |               |  |
| ii.  | SECONDARY Shock Absorber (Make)                        |   |               |               | KNORR BREMSE  |               |               |               |               |  |
| 12.4 | i.   | Modification/ Trail (if any):           |               |               |               | NIL           |               |               |               |  |
|      | ii.  | Deviations (if any):                    |               |               |               | NIL           |               |               |               |  |

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ROLLING STOCK CERTIFICATE

Form No. :

QMF4254;  
Version: 05

|     |                                   |   |  |  |                     |                     |
|-----|-----------------------------------|---|--|--|---------------------|---------------------|
| 1.  | SHELL No:                         | <b>4468</b>   | DISPATCH DATE:                                     |  |                     | <b>20.12.2014</b>   |
| 2.  | RAILWAY                           | <b>SR</b>   | Type:  | <b>GS</b>  | Coach No.:          | <b>14495</b>        |
| 3.  | Booked to                         | <b>SSE/C&amp;W/PER</b>                                |  |  |                     |                     |
| 4.  | Tare Weight of Coach :            | <b>36.99T</b>   |  |  |                     |                     |
| 5.  | Carrying Capacity :               | Seating:  | 90   | Sleeping:  | <b>NIL</b>          | 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 | 200 mm   |  |                     |                     |
|     | vii)                              | Buffer/CBC Height                                     | Specified : 1104 +0 /-10 mm                        | <b>1104/1103</b>   | <b>1104 /1102</b>   |                     |
|     | viii)                             | Buffer/CBC (Make )                                    | <b>JLS</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>VIBGYOR</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                                       |  | ESCORTS  |                     |                     |
|     | ii.                               | SEAT & BERTH  |  | OVPL   |                     |                     |
|     | iii.                              | WATER TANKS   |  | AMIT   |                     |                     |
|     | iv.                               | PVC   |  | RESPONSIVE   |                     |                     |
|     | v.                                | FLOOR BOARD   |  | TAYAL  |                     |                     |
|     | vi.                               | WINDOWS   |  | ABC, AGF, MECIDON  |                     |                     |
|     | vii.                              | LAV. DOORS  |  | JR   |                     |                     |
|     | viii.                             | LP SHEET  |  | NK   |                     |                     |
|     | ix)                               | BIO- TOILET   |  | DARSHAN  |                     |                     |
| 10. | 10.1                              | Modification/ Trial (if any):                         |  |  | NIL                 |                     |
|     | 10.2                              | Deviations (if any):                                  |  |  | NIL                 |                     |



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|      |   |  |   |               |                  |                      |                 |               |               |               |  |
|------|---|--|---|---------------|------------------|----------------------|-----------------|---------------|---------------|---------------|--|
| 12.  | <b>Bogie Details:</b>   | <b>Shell No.</b>                       | <b>Railway</b>                          | <b>Type</b>   | <b>Coach No.</b> | <b>Dispatch Date</b> |                 |               |               |               |  |
|      |   | 4468                                   | SR                                      | GS            | 14495            | 12-12-2014           |                 |               |               |               |  |
| 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>                       | 141606                                  |               |                  |                      |                 | 141607        |               |               |  |
|      | ii.   | <b>Frame No.</b>                       | ASR-746                                 |               |                  |                      |                 | ASR-737       |               |               |  |
|      | iii.  | <b>Axle No.</b>                        | A-4100                                  |               | S-1785           |                      | A-5856          |               | V-9517        |               |  |
|      | iv.   | <b>Wheel Diameter</b>                  | 915.00                                  | 915.00        | 917.00           | 917.00               | 917.00          | 917.50        | 917.00        | 917.00        |  |
|      | v.  | <b>Wheel Disc No.</b>                  | 99302/<br>NIL                           | 08946/<br>260 | 07106/<br>261    | 08080/<br>251        | 08092/<br>368   | 03634/<br>226 | 08094/<br>258 | 07246/37<br>3 |  |
|      | vi.   | <b>R.B. Nos.</b>                       | S-135                                   | S-395         | V-1408           | V-919                | V-1452          | S-359         | V-2329        | S-240         |  |
|      | vii.  | <b>R.B. Make</b>                       | FAG                                     |               | FAG              |                      | FAG             |               | FAG           |               |  |
|      | viii.   | <b>R.B. Type</b>                       | Direct Mounted Spherical Roller Bearing |               |                  |                      |                 |               |               |               |  |
| 12.3 | <b>Items Traceability:</b>                                    |  |   |               |                  |                      |                 |               |               |               |  |
|      | i.  | <b>BRAKE CYLINDER (Make)</b>           |   |               |                  |                      | PEW             |               |               |               |  |
|      | ii.   | <b>SECONDARY Shock Absorber (Make)</b> |   |               |                  |                      | GABRIEL         |               |               |               |  |
| 12.4 | i.  | <b>Modification/ Trail (if any):</b>   |   |               |                  |                      | NIL             |               |               |               |  |
|      | ii.   | <b>Deviations (if any):</b>            |   |               |                  |                      | NIL             |               |               |               |  |

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## ROLLING STOCK CERTIFICATE

Form No. :

QMF4254;  
Version: 05

|       |   |                                       |                |  |                     |                   |            |
|-------|---|---------------------------------------|----------------|--|---------------------|-------------------|------------|
| 1.    | SHELL No:   | <b>4456</b>                           | DISPATCH DATE: |  |                     | <b>20.12.2014</b> |            |
| 2.    | RAILWAY   | <b>SR</b>                             | Type:          | <b>GS</b>  | Coach No.:          | <b>14489</b>      |            |
| 3.    | Booked to   | <b>SSE/C&amp;W/PER</b>                |                |  |                     |                   |            |
| 4.    | Tare Weight of Coach :                                | <b>36.99T</b>                         |                |  |                     |                   |            |
| 5.    | Carrying Capacity :                                   | Seating:                              | 90             | Sleeping:  | <b>NIL</b>          | 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 |                                       |                | 200 mm   |                     |                   |            |
| vii)  | Buffer/CBC Height                                     | Specified : 1104 +0 /-10 mm           |                | <b>1104/1104</b>   | <b>1104 /1104</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>85/85</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                                       |                                       |                | ESCORTS  |                     |                   |            |
| ii.   | SEAT & BERTH  |                                       |                | MANOJ  |                     |                   |            |
| iii.  | WATER TANKS   |                                       |                | AMIT   |                     |                   |            |
| iv.   | PVC   |                                       |                | RESPONSIVE   |                     |                   |            |
| v.    | FLOOR BOARD   |                                       |                | TAYAL  |                     |                   |            |
| vi.   | WINDOWS   |                                       |                | ABC, MECIDON   |                     |                   |            |
| vii.  | LAV. DOORS  |                                       |                | JR   |                     |                   |            |
| viii. | LP SHEET  |                                       |                | NA   |                     |                   |            |
| ix)   | BIO- TOILET   |                                       |                | COMPETENT  |                     |                   |            |
| 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 |           |           |           |
|                 |  | 4456                            | SR        | GS        | 14489     | 06-12-2014    |           |           |           |
| 12.1            | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' |                                 |           |           |           |               |           |           |           |
| 12.2            | Wheel & Axle Details:                                  | PP Side                         |           |           |           | NPP Side      |           |           |           |
|                 | i. Bogie No.   | 141552                          |           |           |           | 141554        |           |           |           |
|                 | ii. Frame No.  | ASR-555                         |           |           |           | ASR-666       |           |           |           |
|                 | iii. Axle No.  | U-8773                          |           | A-5024    |           | RWF-98601     |           | A-5282    |           |
|                 | iv. Wheel Diameter                                     | 917.00                          | 917.00    | 917.00    | 917.00    | 917.00        | 917.00    | 916.00    | 916.00    |
|                 | v. Wheel Disc No.                                      | 07346/386                       | 08090/376 | 08986/205 | 08872/260 | 09036/209     | 08948/260 | 08074/295 | 09036/208 |
|                 | vi. R.B. Nos.  | V339                            | V1283     | V295      | V322      | V1287         | S-533     | S-514     | S-565     |
|                 | 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)           |           |           |           | AJT           |           |           |           |
|                 | ii.  | SECONDARY Shock Absorber (Make) |           |           |           | KNORR BREMSE  |           |           |           |
| 12.4            | i.   | Modification/ Trail (if any):   |           |           |           | NIL           |           |           |           |
|                 | ii.  | Deviations (if any):            |           |           |           | NIL           |           |           |           |

GS-4456

ROLLING STOCK CERTIFICATE

Form No. :

QMF4254;  
Version: 05

|       |   |   |                            |  |                     |                     |
|-------|---|---|----------------------------|--|---------------------|---------------------|
| 1.    | SHELL No:   | <b>4457</b>                                       | DISPATCH DATE:             |  |                     | <b>20.12.2014</b>   |
| 2.    | RAILWAY   | <b>SR</b>   | Type:                      | <b>GS</b>  | Coach No.:          | <b>14491</b>        |
| 3.    | Booked to   | <b>SSE/C&amp;W/PER</b>                            |                            |  |                     |                     |
| 4.    | Tare Weight of Coach :                                | <b>36.99T</b>                                     |                            |  |                     |                     |
| 5.    | Carrying Capacity :                                   | Seating:  | 90                         | Sleeping:  | <b>NIL</b>          | 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 |   |                            | 200 mm   |                     |                     |
| vii)  | Buffer/CBC Height                                     | Specified : 1104 +0 /-10 mm                       |                            | <b>1104/1104</b>   | <b>1104 /1104</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/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>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:                     |   |                            | Make   |                     |                     |
| i.    | BRAKE EQUIPMENT                                       |   |                            | ESCORTS  |                     |                     |
| ii.   | SEAT & BERTH  |   |                            | MANOJ  |                     |                     |
| iii.  | WATER TANKS   |   |                            | AMIT   |                     |                     |
| iv.   | PVC   |   |                            | RESPONSIVE   |                     |                     |
| v.    | FLOOR BOARD   |   |                            | TAYAL  |                     |                     |
| vi.   | WINDOWS   |   |                            | ABC, MECIDON   |                     |                     |
| vii.  | LAV. DOORS  |   |                            | JR   |                     |                     |
| viii. | LP SHEET  |   |                            | NA   |                     |                     |
| ix)   | BIO- TOILET   |   |                            | M K PRECISION  |                     |                     |
| 10.   | 10.1  | Modification/ Trial (if any):                     |                            | NIL  |                     |                     |
|       | 10.2  | Deviations (if any):                              |                            | NIL  |                     |                     |



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Rail Coach Factory , Kapurthala

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|                 |  |                                 |           |           |           |               |           |           |           |
|-----------------|--|---------------------------------|-----------|-----------|-----------|---------------|-----------|-----------|-----------|
| 12.             | Bogie Details:   | Shell No.                       | Railway   | Type      | Coach No. | Dispatch Date |           |           |           |
|                 |  | 4457                            | SR        | GS        | 14491     | 10-12-2014    |           |           |           |
| 12.1            | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' |                                 |           |           |           |               |           |           |           |
| 12.2            | Wheel & Axle Details:                                  | PP Side                         |           |           |           | NPP Side      |           |           |           |
|                 | i. Bogie No.   | 141588                          |           |           |           | 141589        |           |           |           |
|                 | ii. Frame No.  | ASR-739                         |           |           |           | RBO-1218      |           |           |           |
|                 | iii. Axle No.  | 3625                            |           | A-3630    |           | A-4254        |           | V-9306    |           |
|                 | iv. Wheel Diameter                                     | 917.00                          | 916.50    | 916.50    | 917.00    | 917.00        | 917.00    | 916.50    | 916.00    |
|                 | v. Wheel Disc No.                                      | 08065/264                       | 06933/245 | 07332/225 | 08084/209 | 06971/248     | 05862/252 | 07107/373 | 03675/215 |
|                 | vi. R.B. Nos.  | V-1395                          | V-911     | V-882     | V-905     | V-899         | V-875     | V-962     | V-873     |
|                 | 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,AJT       |           |           |           |
|                 | ii.  | SECONDARY Shock Absorber (Make) |           |           |           | GABRIEL       |           |           |           |
| 12.4            | i.   | Modification/ Trail (if any):   |           |           |           | NIL           |           |           |           |
|                 | ii.  | Deviations (if any):            |           |           |           | NIL           |           |           |           |

GS-4457



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ROLLING STOCK CERTIFICATE

Form No. :

QMF4254;  
Version: 05

|       |   |   |  |  |                     |                     |
|-------|---|---|--|--|---------------------|---------------------|
| 1.    | SHELL No:   | <b>4464</b>                                       | DISPATCH DATE:                                     |  |                     | <b>20.12.2014</b>   |
| 2.    | RAILWAY   | <b>SR</b>   | Type:  | <b>GS</b>  | Coach No.:          | <b>14500</b>        |
| 3.    | Booked to   | <b>SSE/C&amp;W/PER</b>                            |  |  |                     |                     |
| 4.    | Tare Weight of Coach :                                | <b>36.99T</b>                                     |  |  |                     |                     |
| 5.    | Carrying Capacity :                                   | Seating:  | <b>90</b>  | Sleeping:  | <b>NIL</b>          | 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 |   | 200 mm   |  |                     |                     |
| vii)  | Buffer/CBC Height                                     | Specified : 1104 +0 /-10 mm                       | <b>1104/1104</b>                                   |  |                     | <b>1104 /1104</b>   |
| viii) | Buffer/CBC (Make )                                    |   | <b>JLS</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>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:                     |   |  | Make   |                     |                     |
| i.    | BRAKE EQUIPMENT                                       |   |  | <b>ESCORTS</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.   | WINDOWS   |   |  | <b>ABC, AGF, MECIDON</b>   |                     |                     |
| vii.  | LAV. DOORS  |   |  | <b>JR</b>  |                     |                     |
| viii. | LP SHEET  |   |  | <b>NK</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 |               |               |               |
|      |  | 4464                            | SR                                      |               | GS            | 14500         | 16-12-2014    |               |               |               |
| 12.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' |                                 |   |               |               |               |               |               |               |               |
| 12.2 | Wheel & Axle Details:                                  | PP Side                         |   |               |               | NPP Side      |               |               |               |               |
|      | i.   | Bogie No.                       | 141615                                  |               |               |               | 141616        |               |               |               |
|      | ii.  | Frame No.                       | ASR-718                                 |               |               |               | ASR-345       |               |               |               |
|      | iii.   | Axle No.                        | 9887                                    |               | 8442          |               | N-0375        |               | A-5551        |               |
|      | iv.  | Wheel Diameter                  | 916.00                                  | 916.00        | 916.00        | 916.00        | 916.50        | 916.00        | 916.00        | 916.00        |
|      | v.   | Wheel Disc No.                  | 08077/<br>266                           | 06065/<br>233 | 07217/<br>202 | 07301/<br>236 | 07280/<br>272 | 09034/<br>219 | 06416/<br>297 | 07263/22<br>6 |
|      | vi.  | R.B. Nos.                       | V-1822                                  | V-1852        | V-1791        | V-1816        | V-357         | V-1493        | V-1509        | V-1500        |
|      | 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) |   |               |               | ESCORTS , IAI |               |               |               |               |
| 12.4 | i.   | Modification/ Trail (if any):   |   |               |               | NIL           |               |               |               |               |
|      | ii.  | Deviations (if any):            |   |               |               | NIL           |               |               |               |               |





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ROLLING STOCK CERTIFICATE

Form No. :

QMF4254;  
Version: 05

|       |   |   |                            |  |                     |              |
|-------|---|---|----------------------------|--|---------------------|--------------|
| 1.    | SHELL No:   | 4466  | DISPATCH DATE:             |  |                     | 20.12.2014   |
| 2.    | RAILWAY   | SR  | Type:                      | GS   | Coach No.:          | 14501        |
| 3.    | Booked to   | SSE/C&W/PER                                       |                            |  |                     |              |
| 4.    | Tare Weight of Coach :                                | 36.99T  |                            |  |                     |              |
| 5.    | Carrying Capacity :                                   | Seating:  | 90                         | Sleeping:  | NIL                 | 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 |   |                            | 200 mm   |                     |              |
| vii)  | Buffer/CBC Height                                     | Specified : 1104 +0 /-10 mm                       |                            | 1104/1104  | 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:                     |   |                            | Make   |                     |              |
| i.    | BRAKE EQUIPMENT                                       |   |                            | ESCORTS  |                     |              |
| ii.   | SEAT & BERTH  |   |                            | OVPL   |                     |              |
| iii.  | WATER TANKS   |   |                            | AMIT   |                     |              |
| iv.   | PVC   |   |                            | RESPONSIVE   |                     |              |
| v.    | FLOOR BOARD   |   |                            | TAYAL  |                     |              |
| vi.   | WINDOWS   |   |                            | ABC, AGF, MECIDON  |                     |              |
| vii.  | LAV. DOORS  |   |                            | JR   |                     |              |
| viii. | LP SHEET  |   |                            | NK   |                     |              |
| ix)   | BIO- TOILET   |   |                            | M K PRECISION  |                     |              |
| 10.   | 10.1  | Modification/ Trial (if any):                     |                            |  | NIL                 |              |
|       | 10.2  | Deviations (if any):                              |                            |  | NIL                 |              |



|      |  |                               |   |               |               |                 |               |               |               |               |
|------|--|-------------------------------|---|---------------|---------------|-----------------|---------------|---------------|---------------|---------------|
| 12.  | Bogie Details:   | Shell No.                     | Railway                                 | Type          | Coach No.     | Dispatch Date   |               |               |               |               |
|      |  | 4466                          | SR                                      | GS            | 14501         | 17-12-2014      |               |               |               |               |
| 12.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' |                               |   |               |               |                 |               |               |               |               |
| 12.2 | Wheel & Axle Details:                                  | PP Side                       |   |               |               | NPP Side        |               |               |               |               |
|      | i.   | Bogie No.                     | 141626                                  |               |               |                 | 141624        |               |               |               |
|      | ii.  | Frame No.                     | ASR-754                                 |               |               |                 | ASR-758       |               |               |               |
|      | iii.   | Axle No.                      | S-7569                                  |               | V-9987        |                 | A-5511        |               | 0532          |               |
|      | iv.  | Wheel Diameter                | 918.00                                  | 918.00        | 916.50        | 916.00          | 913.00        | 913.00        | 917.00        | 917.00        |
|      | v.   | Wheel Disc No.                | 05846/<br>287                           | 09051/<br>385 | 02615/<br>276 | 04222/<br>295   | 04267/<br>252 | 03727/<br>297 | 03685/<br>314 | 07228/29<br>5 |
|      | vi.  | R.B. Nos.                     | V1368                                   | S571          | S580          | S598            | V1310         | S925          | V1298         | V1370         |
|      | 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)                        |                               |   |               | GABRIEL       |                 |               |               |               |               |
| 12.4 | i.   | Modification/ Trail (if any): |   |               |               | NIL             |               |               |               |               |
|      | ii.  | Deviations (if any):          |   |               |               | LESS WHEEL DIA. |               |               |               |               |

GS-4466



## ROLLING STOCK CERTIFICATE

Form No. :

QMF4254;  
Version: 05

|       |   |                                       |                            |  |                     |                   |            |
|-------|---|---------------------------------------|----------------------------|--|---------------------|-------------------|------------|
| 1.    | SHELL No:   | <b>4472</b>                           | DISPATCH DATE:             |  |                     | <b>20.12.2014</b> |            |
| 2.    | RAILWAY   | <b>SR</b>                             | Type:                      | <b>GS</b>  | Coach No.:          | <b>14502</b>      |            |
| 3.    | Booked to   | <b>SSE/C&amp;W/PER</b>                |                            |  |                     |                   |            |
| 4.    | Tare Weight of Coach :                                | <b>36.99T</b>                         |                            |  |                     |                   |            |
| 5.    | Carrying Capacity :                                   | Seating:                              | 90                         | Sleeping:  | <b>NIL</b>          | 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 |                                       |                            | 200 mm   |                     |                   |            |
| vii)  | Buffer/CBC Height                                     | Specified : 1104 +0 /-10 mm           |                            | <b>1104/1104</b>   | <b>1104 /1104</b>   |                   |            |
| viii) | Buffer/CBC (Make )                                    |                                       |                            | <b>JLS</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>85/85</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>ESCORTS</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.   | WINDOWS   |                                       |                            | <b>ABC, AGF, MECIDON</b>   |                     |                   |            |
| vii.  | LAV. DOORS  |                                       |                            | <b>JR</b>  |                     |                   |            |
| viii. | LP SHEET  |                                       |                            | <b>NK</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.  | <b>Bogie Details:</b>   | <b>Shell No.</b>                       | <b>Railway</b>                          | <b>Type</b>   | <b>Coach No.</b> | <b>Dispatch Date</b> |               |               |               |               |  |
|      |   | 4472                                   | SR                                      | GS            | 14502            | 16-12-2014           |               |               |               |               |  |
| 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>                       | 141614                                  |               |                  |                      | 141623        |               |               |               |  |
|      | ii.   | <b>Frame No.</b>                       | ASR-761                                 |               |                  |                      | ASR-727       |               |               |               |  |
|      | iii.  | <b>Axle No.</b>                        | A-5189                                  |               | P-3329           |                      | U-7947        |               | A-5115        |               |  |
|      | iv.   | <b>Wheel Diameter</b>                  | 915.00                                  | 915.00        | 915.00           | 915.00               | 915.00        | 915.00        | 915.00        | 915.00        |  |
|      | v.  | <b>Wheel Disc No.</b>                  | 07114/<br>274                           | 07105/<br>331 | 05861/<br>231    | 08060/<br>256        | 07065/<br>269 | 07283/<br>314 | 09125/<br>260 | 07112/28<br>5 |  |
|      | vi.   | <b>R.B. Nos.</b>                       | S-751                                   | V-1350        | V-1717           | V-1800               | V-1381        | V-1377        | S-297         | Y-419         |  |
|      | vii.  | <b>R.B. Make</b>                       | FAG                                     |               | FAG              |                      | FAG           |               | FAG           |               |  |
|      | viii.   | <b>R.B. Type</b>                       | Direct Mounted Spherical Roller Bearing |               |                  |                      |               |               |               |               |  |
| 12.3 | <b>Items Traceability:</b>                                    |  |   |               |                  |                      |               |               |               |               |  |
|      | i.  | <b>BRAKE CYLINDER (Make)</b>           |   |               |                  |                      | PEW           |               |               |               |  |
|      | ii.   | <b>SECONDARY Shock Absorber (Make)</b> |   |               |                  |                      | GABRIEL       |               |               |               |  |
| 12.4 | i.  | <b>Modification/ Trail (if any):</b>   |   |               |                  |                      | NIL           |               |               |               |  |
|      | ii.   | <b>Deviations (if any):</b>            |   |               |                  |                      | NIL           |               |               |               |  |

GS-4472



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ROLLING STOCK CERTIFICATE

Form No. :

QMF4254;

Version: 05

|       |   |  |  |                     |            |                   |            |
|-------|---|--|--|---------------------|------------|-------------------|------------|
| 1.    | SHELL No:   | <b>4467</b>  | DISPATCH DATE:   |                     |            | <b>22.12.2014</b> |            |
| 2.    | RAILWAY   | <b>SR</b>  | Type:  | <b>GS</b>           | Coach No.: | <b>14503</b>      |            |
| 3.    | Booked to   | <b>SSE/C&amp;W/PER</b>                             |  |                     |            |                   |            |
| 4.    | Tare Weight of Coach :                                | <b>36.99T</b>                                      |  |                     |            |                   |            |
| 5.    | Carrying Capacity :                                   | Seating:   | 90   | Sleeping:           | <b>NIL</b> | 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 | 200 mm   |  |                     |            |                   |            |
| vii)  | Buffer/CBC Height                                     | Specified : 1104 +0 /-10 mm                        | <b>1104/1104</b>   | <b>1104 /1104</b>   |            |                   |            |
| viii) | Buffer/CBC (Make )                                    | <b>JLS</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>85/85</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                                       |  |  | ESCORTS             |            |                   |            |
| ii.   | SEAT & BERTH  |  |  | OVPL                |            |                   |            |
| iii.  | WATER TANKS   |  |  | AMIT                |            |                   |            |
| iv.   | PVC   |  |  | RESPONSIVE          |            |                   |            |
| v.    | FLOOR BOARD   |  |  | TAYAL               |            |                   |            |
| vi.   | WINDOWS   |  |  | ABC, AGF, MECIDON   |            |                   |            |
| vii.  | LAV. DOORS  |  |  | JR                  |            |                   |            |
| viii. | LP SHEET  |  |  | NK                  |            |                   |            |
| ix)   | BIO- TOILET   |  |  | DARSHAN             |            |                   |            |
| 10.   | 10.1  | Modification/ Trial (if any):                      |  |                     | NIL        |                   |            |
|       | 10.2  | Deviations (if any):                               |  |                     | NIL        |                   |            |



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|      |   |  |   |               |                  |                      |               |               |               |               |
|------|---|--|---|---------------|------------------|----------------------|---------------|---------------|---------------|---------------|
| 12.  | <b>Bogie Details:</b>   | <b>Shell No.</b>                       | <b>Railway</b>                          | <b>Type</b>   | <b>Coach No.</b> | <b>Dispatch Date</b> |               |               |               |               |
|      |   | 4467                                   | SR                                      | GS            | 14503            | 17-12-2014           |               |               |               |               |
| 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>                       | 141562                                  |               |                  |                      | 141621        |               |               |               |
|      | ii.   | <b>Frame No.</b>                       | RBO-1217                                |               |                  |                      | ASR-753       |               |               |               |
|      | iii.  | <b>Axle No.</b>                        | W-2603                                  |               | W-2985           |                      | M-7807        |               | 2321          |               |
|      | iv.   | <b>Wheel Diameter</b>                  | 917.00                                  | 917.00        | 918.00           | 918.00               | 917.50        | 917.00        | 917.50        | 917.00        |
|      | v.  | <b>Wheel Disc No.</b>                  | 05769/<br>248                           | 07108/<br>263 | 03948/<br>376    | 08751/<br>238        | 04275/<br>264 | 03652/<br>211 | 07102/<br>255 | 05832/24<br>9 |
|      | vi.   | <b>R.B. Nos.</b>                       | S637                                    | S766          | S620             | S497                 | V528          | V973          | S462          | S624          |
|      | vii.  | <b>R.B. Make</b>                       | FAG                                     |               | FAG              |                      | FAG           |               | FAG           |               |
|      | viii.   | <b>R.B. Type</b>                       | Direct Mounted Spherical Roller Bearing |               |                  |                      |               |               |               |               |
| 12.3 | <b>Items Traceability:</b>                                    |  |   |               |                  |                      |               |               |               |               |
|      | i.  | <b>BRAKE CYLINDER (Make)</b>           |   |               |                  | PEW                  |               |               |               |               |
|      | ii.   | <b>SECONDARY Shock Absorber (Make)</b> |   |               |                  | GABRIEL              |               |               |               |               |
| 12.4 | i.  | <b>Modification/ Trail (if any):</b>   |   |               |                  | NIL                  |               |               |               |               |
|      | ii.   | <b>Deviations (if any):</b>            |   |               |                  | NIL                  |               |               |               |               |

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ROLLING STOCK CERTIFICATE

Form No. :

QMF4254;  
Version: 05

|     |                                   |   |  |  |                     |                     |
|-----|-----------------------------------|---|--|--|---------------------|---------------------|
| 1.  | SHELL No:                         | <b>4455</b>   | DISPATCH DATE:                                     |  |                     | <b>23.12.2014</b>   |
| 2.  | RAILWAY                           | <b>SR</b>   | Type:  | <b>GS</b>  | Coach No.:          | <b>14497</b>        |
| 3.  | Booked to                         | <b>SSE/C&amp;W/PER</b>                                |  |  |                     |                     |
| 4.  | Tare Weight of Coach :            | <b>36.99T</b>   |  |  |                     |                     |
| 5.  | Carrying Capacity :               | Seating:  | <b>90</b>  | Sleeping:  | <b>NIL</b>          | 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 | 200 mm   |  |                     |                     |
|     | vii)                              | Buffer/CBC Height                                     | Specified : 1104 +0 /-10 mm                        | <b>1104/1104</b>   | <b>1104 /1104</b>   |                     |
|     | viii)                             | Buffer/CBC (Make )                                    | <b>JLS</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>85/85</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>ESCORTS</b>   |                     |                     |
|     | ii.                               | SEAT & BERTH  |  | <b>MANOJ</b>   |                     |                     |
|     | iii.                              | WATER TANKS   |  | <b>AMIT</b>  |                     |                     |
|     | iv.                               | PVC   |  | <b>RESPONSIVE</b>  |                     |                     |
|     | v.                                | FLOOR BOARD   |  | <b>TAYAL</b>   |                     |                     |
|     | vi.                               | WINDOWS   |  | <b>ABC, AGF, MECIDON</b>   |                     |                     |
|     | vii.                              | LAV. DOORS  |  | <b>JR</b>  |                     |                     |
|     | viii.                             | LP SHEET  |  | <b>NK</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 |               |               |               |
|      |  | 4455                            | SR                                      |               | GS            | 14497         | 15-12-2014    |               |               |               |
| 12.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' |                                 |   |               |               |               |               |               |               |               |
| 12.2 | Wheel & Axle Details:                                  | PP Side                         |   |               |               | NPP Side      |               |               |               |               |
|      | i.   | Bogie No.                       | 141585                                  |               |               |               | 141612        |               |               |               |
|      | ii.  | Frame No.                       | UBLS-1196                               |               |               |               | ASR-724       |               |               |               |
|      | iii.   | Axle No.                        | S-1832                                  |               | A-4503        |               | P-5874        |               | T-3239        |               |
|      | iv.  | Wheel Diameter                  | 917.00                                  | 917.00        | 917.00        | 917.00        | 916.00        | 916.00        | 916.00        | 916.00        |
|      | v.   | Wheel Disc No.                  | 03635/<br>270                           | 03688/<br>223 | 08092/<br>213 | 03948/<br>230 | 08954/<br>219 | 04267/<br>372 | 03629/<br>216 | 03693/24<br>6 |
|      | vi.  | R.B. Nos.                       | 917.00                                  | 917.00        | 917.00        | 917.00        | S-555         | S-545         | S-720         | S-332         |
|      | 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)           |   |               |               | AJT,PEW       |               |               |               |               |
|      | ii.  | SECONDARY Shock Absorber (Make) |   |               |               | IAI           |               |               |               |               |
| 12.4 | i.   | Modification/ Trail (if any):   |   |               |               | NIL           |               |               |               |               |
|      | ii.  | Deviations (if any):            |   |               |               | NIL           |               |               |               |               |





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ROLLING STOCK CERTIFICATE

Form No. :

QMF4254;  
Version: 05

|       |   |  |  |                     |                   |
|-------|---|--|--|---------------------|-------------------|
| 1.    | SHELL No:   | 4471   | DISPATCH DATE:   |                     | 24.12.2014        |
| 2.    | RAILWAY   | SR   | Type:  | GS                  | Coach No.: 14496  |
| 3.    | Booked to   | SSE/C&W/PER  |  |                     |                   |
| 4.    | Tare Weight of Coach :                                | 36.99T   |  |                     |                   |
| 5.    | Carrying Capacity :                                   | Seating: 90  | Sleeping: NIL  | 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 | 200 mm   |  |                     |                   |
| vii)  | Buffer/CBC Height                                     | Specified : 1104 +0 /-10 mm                        | 1104/1104  | 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/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   | VIBGYOR  | 85/85               |                   |
| 8.2   | APPLICATION OF PCN-123                                |  | SATISFACTORY   |                     |                   |
| 8.3   | INSUALTION  |  | SATISFACTORY   |                     |                   |
| 9.    | Traceability of Furnishing Items:                     |  |  |                     |                   |
| i.    | BRAKE EQUIPMENT                                       | Make   |  |                     | ESCORTS           |
| ii.   | SEAT & BERTH  |  |  |                     | OVPL              |
| iii.  | WATER TANKS   |  |  |                     | AMIT              |
| iv.   | PVC   |  |  |                     | RESPONSIVE        |
| v.    | FLOOR BOARD   |  |  |                     | TAYAL             |
| vi.   | WINDOWS   |  |  |                     | ABC, AGF, MECIDON |
| vii.  | LAV. DOORS  |  |  |                     | JR                |
| viii. | LP SHEET  |  |  |                     | NK                |
| ix)   | BIO- TOILET   |  |  |                     | DARSHAN           |
| 10.   | 10.1  | Modification/ Trial (if any):                      | NIL  |                     |                   |
|       | 10.2  | Deviations (if any):                               | NIL  |                     |                   |



|      |  |                                 |   |           |           |           |               |           |           |           |
|------|--|---------------------------------|---|-----------|-----------|-----------|---------------|-----------|-----------|-----------|
| 12.  | Bogie Details:   | Shell No.                       | Railway                                 |           | Type      | Coach No. | Dispatch Date |           |           |           |
|      |  | 4471                            | SR                                      |           | GS        | 14496     | 09-12-2014    |           |           |           |
| 12.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' |                                 |   |           |           |           |               |           |           |           |
| 12.2 | Wheel & Axle Details:                                  | PP Side                         |   |           |           | NPP Side  |               |           |           |           |
|      | i.   | Bogie No.                       | 141578                                  |           |           |           | 141587        |           |           |           |
|      | ii.  | Frame No.                       | RBO-1214                                |           |           |           | ASR-743       |           |           |           |
|      | iii.   | Axle No.                        | A-5710                                  |           | 2317      |           | U-9685        |           | RWF-92583 |           |
|      | iv.  | Wheel Diameter                  | 916.00                                  | 916.00    | 916.50    | 917.00    | 917.00        | 917.00    | 916.00    | 916.50    |
|      | v.   | Wheel Disc No.                  | 09036/272                               | 08068/297 | 09034/308 | 05970/276 | 06931/245     | 08088/280 | 05979/232 | 07357/255 |
|      | vi.  | R.B. Nos.                       | V1441                                   | V1407     | V1453     | V936      | V1417         | V918      | V927      | V906      |
|      | 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)           |   |           |           | AJT       |               |           |           |           |
|      | ii.  | SECONDARY Shock Absorber (Make) |   |           |           | GABRIAL   |               |           |           |           |
| 12.4 | i.   | Modification/ Trail (if any):   |   |           |           | NIL       |               |           |           |           |
|      | ii.  | Deviations (if any):            |   |           |           | NIL       |               |           |           |           |

GS-4471



**ROLLING STOCK CERTIFICATE**

Form No. :

QMF4254;  
Version: 05

|       |   |   |  |  |                     |                   |            |
|-------|---|---|--|--|---------------------|-------------------|------------|
| 1.    | SHELL No:   | <b>4474</b>                                       | DISPATCH DATE:                                     |  |                     | <b>26.12.2014</b> |            |
| 2.    | RAILWAY   | <b>SR</b>   | Type:  | <b>GS</b>  | Coach No.:          | <b>14506</b>      |            |
| 3.    | Booked to   | <b>SSE/C&amp;W/PER</b>                            |  |  |                     |                   |            |
| 4.    | Tare Weight of Coach :                                | <b>36.99T</b>                                     |  |  |                     |                   |            |
| 5.    | Carrying Capacity :                                   | Seating:  | 90   | Sleeping:  | <b>NIL</b>          | 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 |   | 200 mm   |  |                     |                   |            |
| vii)  | Buffer/CBC Height                                     | Specified : 1104 +0 /-10 mm                       | <b>1104/1104</b>                                   | <b>1104 /1104</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/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>VIBGYOR</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>ESCORTS</b>   |                     |                   |            |
| ii.   | SEAT & BERTH  |   |  | <b>OVPL</b>  |                     |                   |            |
| iii.  | WATER TANKS   |   |  | <b>RUBICONE</b>  |                     |                   |            |
| iv.   | PVC   |   |  | <b>RESPONSIVE</b>  |                     |                   |            |
| v.    | FLOOR BOARD   |   |  | <b>TAYAL</b>   |                     |                   |            |
| vi.   | WINDOWS   |   |  | <b>ABC, MECIDON</b>  |                     |                   |            |
| vii.  | LAV. DOORS  |   |  | <b>JR</b>  |                     |                   |            |
| viii. | LP SHEET  |   |  | <b>NA</b>  |                     |                   |            |
| ix)   | BIO- TOILET   |   |  | <b>M K PRECISION</b>   |                     |                   |            |
| 10.   | 10.1  | Modification/ Trial (if any):                     |  |  | <b>NIL</b>          |                   |            |
|       | 10.2  | Deviations (if any):                              |  |  | <b>NIL</b>          |                   |            |



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Rail Coach Factory , Kapurthala

|      |  |                                 |   |           |           |               |           |           |           |           |  |
|------|--|---------------------------------|---|-----------|-----------|---------------|-----------|-----------|-----------|-----------|--|
| 12.  | Bogie Details:   | Shell No.                       | Railway                                 | Type      | Coach No. | Dispatch Date |           |           |           |           |  |
|      |  | 4474                            | SR                                      | GS        | 14506     | 19-12-2014    |           |           |           |           |  |
| 12.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' |                                 |   |           |           |               |           |           |           |           |  |
| 12.2 | Wheel & Axle Details:                                  | PP Side                         |   |           |           | NPP Side      |           |           |           |           |  |
|      | i.   | Bogie No.                       | 141619                                  |           |           |               | 141576    |           |           |           |  |
|      | ii.  | Frame No.                       | ASR-757                                 |           |           |               | UBLS-1223 |           |           |           |  |
|      | iii.   | Axle No.                        | U-4213                                  |           | A-5552    |               | A-4378    |           | 1007      |           |  |
|      | iv.  | Wheel Diameter                  | 916.00                                  | 916.00    | 917.50    | 917.00        | 916.50    | 916.00    | 916.00    | 916.50    |  |
|      | v.   | Wheel Disc No.                  | 07245/379                               | 09037/202 | 08091/278 | 03918/289     | 08094/278 | 08082/264 | 08065/263 | 03918/290 |  |
|      | vi.  | R.B. Nos.                       | S584                                    | R511      | R322      | R379          | R382      | R311      | R344      | V1100     |  |
|      | vii.   | R.B. Make                       | FAG                                     |           | FAG       |               | FAG       |           | FAG       |           |  |
|      | viii.  | R.B. Type                       | Direct Mounted Spherical Roller Bearing |           |           |               |           |           |           |           |  |
| 12.3 | Items Traceability:                                    |                                 |   |           |           |               |           |           |           |           |  |
|      | i.   | BRAKE CYLINDER (Make)           |   |           |           |               | AJT       |           |           |           |  |
|      | ii.  | SECONDARY Shock Absorber (Make) |   |           |           |               | GABRIEL   |           |           |           |  |
| 12.4 | i.   | Modification/ Trail (if any):   |   |           |           |               | NIL       |           |           |           |  |
|      | ii.  | Deviations (if any):            |   |           |           |               | NIL       |           |           |           |  |

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Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. :

QMF4254;

|       |   |   |                            |  |                     |                     |
|-------|---|---|----------------------------|--|---------------------|---------------------|
| 1.    | SHELL No:   | <b>4475</b>                                       | DISPATCH DATE:             |  |                     | <b>26.12.2014</b>   |
| 2.    | RAILWAY   | <b>SR</b>   | Type:                      | <b>GS</b>  | Coach No.:          | <b>14504</b>        |
| 3.    | Booked to   | <b>SSE/C&amp;W/PER</b>                            |                            |  |                     |                     |
| 4.    | Tare Weight of Coach :                                | <b>36.99T</b>                                     |                            |  |                     |                     |
| 5.    | Carrying Capacity :                                   | Seating:  | 90                         | Sleeping:  | <b>NIL</b>          | 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 |   |                            | 200 mm   |                     |                     |
| vii)  | Buffer/CBC Height                                     | Specified : 1104 +0 /-10 mm                       |                            | <b>1104/1104</b>   | <b>1102/1104</b>    |                     |
| viii) | Buffer/CBC (Make )                                    |   |                            | <b>JLS</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>VIBGYOR</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>ESCORTS</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.   | WINDOWS   |   |                            | <b>ABC, AGF, MECIDON</b>   |                     |                     |
| vii.  | LAV. DOORS  |   |                            | <b>JR</b>  |                     |                     |
| viii. | LP SHEET  |   |                            | <b>NK</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. | <b>Bogie Details:</b> | <b>Shell No.</b> | <b>Railway</b> | <b>Type</b> | <b>Coach No.</b> | <b>Dispatch Date</b> |
|-----|-----------------------|------------------|----------------|-------------|------------------|----------------------|

|      |  |                                 |   |           |           |            |                 |           |           |           |  |
|------|--|---------------------------------|---|-----------|-----------|------------|-----------------|-----------|-----------|-----------|--|
|      |  | 4475                            | SR                                      | GS        | 14504     | 16-12-2014 |                 |           |           |           |  |
| 12.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' |                                 |   |           |           |            |                 |           |           |           |  |
| 12.2 | Wheel & Axle Details:                                  | PP Side                         |   |           |           | NPP Side   |                 |           |           |           |  |
|      | i.   | Bogie No.                       | 141620                                  |           |           |            | 141611          |           |           |           |  |
|      | ii.  | Frame No.                       | ASR-700                                 |           |           |            | ASR-741         |           |           |           |  |
|      | iii.   | Axle No.                        | RWF-91935                               |           | A-5824    |            | 838             |           | 2313      |           |  |
|      | iv.  | Wheel Diameter                  | 915.50                                  | 915.00    | 917.50    | 917.00     | 916.00          | 916.50    | 916.50    | 916.00    |  |
|      | v.   | Wheel Disc No.                  | 04261/269                               | 07245/246 | 08938/374 | 04267/273  | 06933/206       | 06933/218 | 07265/273 | 07203/270 |  |
|      | vi.  | R.B. Nos.                       | V-1337                                  | V-1382    | S-804     | V-1304     | V-1265          | V-553     | V-1455    | V-1742    |  |
|      | 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)           |   |           |           |            | AJT,PEW         |           |           |           |  |
|      | ii.  | SECONDARY Shock Absorber (Make) |   |           |           |            | GABRIEL,ESCORTS |           |           |           |  |
| 12.4 | i.   | Modification/ Trail (if any):   |   |           |           |            | NIL             |           |           |           |  |
|      | ii.  | Deviations (if any):            |   |           |           |            | NIL             |           |           |           |  |

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ROLLING STOCK CERTIFICATE

Form No. :

QMF4254;  
Version: 05

|    |           |      |                |            |
|----|-----------|------|----------------|------------|
| 1. | SHELL No: | 4462 | DISPATCH DATE: | 26.12.2014 |
|----|-----------|------|----------------|------------|

|       |   |                                       |  |               |                     |           |
|-------|---|---------------------------------------|--|---------------|---------------------|-----------|
| 2.    | RAILWAY   | SR                                    | Type:  | GS            | Coach No.:          | 14505     |
| 3.    | Booked to   |                                       | SSE/C&W/PER  |               |                     |           |
| 4.    | Tare Weight of Coach :                                |                                       | 36.99T   |               |                     |           |
| 5.    | Carrying Capacity :                                   |                                       | Seating: 90  | Sleeping: NIL | 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 |                                       | 200 mm   |               |                     |           |
| vii)  | Buffer/CBC Height                                     | Specified : 1104 +0 /-10 mm           | 1104/1104  |               |                     | 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/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   | VIBGYOR       | 85/86               |           |
| 8.2   | APPLICATION OF PCN-123                                |                                       | SATISFACTORY   |               |                     |           |
| 8.3   | INSUALTION  |                                       | SATISFACTORY   |               |                     |           |
| 9.    | Traceability of Furnishing Items:                     |                                       |  | Make          |                     |           |
| i.    | BRAKE EQUIPMENT                                       |                                       | ESCORTS  |               |                     |           |
| ii.   | SEAT & BERTH  |                                       | FLEXO FOAMS  |               |                     |           |
| iii.  | WATER TANKS   |                                       | AMIT   |               |                     |           |
| iv.   | PVC   |                                       | RESPONSIVE   |               |                     |           |
| v.    | FLOOR BOARD   |                                       | TAYAL  |               |                     |           |
| vi.   | WINDOWS   |                                       | ABC, MECIDON   |               |                     |           |
| vii.  | LAV. DOORS  |                                       | JR   |               |                     |           |
| viii. | LP SHEET  |                                       | NA   |               |                     |           |
| ix)   | BIO- TOILET   |                                       | M K PRECISION  |               |                     |           |
| 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 |
|      |  | 4462      | SR      | GS   | 14505     | 11-12-2014    |
| 12.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' |           |         |      |           |               |

|      |                                   |  |  |                  |                  |                  |                  |                  |                  |                  |  |
|------|-----------------------------------|--|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--|
|      |                                   |  |  |                  |                  |                  |                  |                  |                  |                  |  |
| 12.2 | <b>Wheel &amp; Axle Details:</b>  |  | <b>PP Side</b>                                 |                  |                  |                  | <b>NPP Side</b>  |                  |                  |                  |  |
|      | i.                                | <b>Bogie No.</b>                       | <b>141560</b>                                  |                  |                  |                  | <b>141581</b>    |                  |                  |                  |  |
|      | ii.                               | <b>Frame No.</b>                       | <b>ASR-691</b>                                 |                  |                  |                  | <b>ASR-726</b>   |                  |                  |                  |  |
|      | iii.                              | <b>Axle No.</b>                        | <b>A-5301</b>                                  |                  | <b>M-8307</b>    |                  | <b>1913</b>      |                  | <b>A-5521</b>    |                  |  |
|      | iv.                               | <b>Wheel Diameter</b>                  | <b>916.50</b>                                  | <b>916.00</b>    | <b>916.00</b>    | <b>916.00</b>    | <b>917.00</b>    | <b>917.00</b>    | <b>917.00</b>    | <b>917.00</b>    |  |
|      | v.                                | <b>Wheel Disc No.</b>                  | <b>09137/269</b>                               | <b>09138/369</b> | <b>07348/276</b> | <b>08890/218</b> | <b>07197/226</b> | <b>07203/233</b> | <b>08062/283</b> | <b>07213/249</b> |  |
|      | vi.                               | <b>R.B. Nos.</b>                       | <b>S-525</b>                                   | <b>V-1308</b>    | <b>V-1403</b>    | <b>V-1402</b>    | <b>V-1640</b>    | <b>V-1342</b>    | <b>V-912</b>     | <b>V-1332</b>    |  |
|      | vii.                              | <b>R.B. Make</b>                       | <b>FAG</b>                                     |                  | <b>FAG</b>       |                  | <b>FAG</b>       |                  | <b>FAG</b>       |                  |  |
|      | viii.                             | <b>R.B. Type</b>                       | <b>Direct Mounted Spherical Roller Bearing</b> |                  |                  |                  |                  |                  |                  |                  |  |
| 12.3 | <b><u>Items Traceability:</u></b> |  |  |                  |                  |                  |                  |                  |                  |                  |  |
|      | i.                                | <b>BRAKE CYLINDER (Make)</b>           |  |                  |                  |                  | <b>AJT</b>       |                  |                  |                  |  |
|      | ii.                               | <b>SECONDARY Shock Absorber (Make)</b> |  |                  |                  |                  | <b>GABRIEL</b>   |                  |                  |                  |  |
| 12.4 | i.                                | <b>Modification/ Trail (if any):</b>   |  |                  |                  |                  | <b>NIL</b>       |                  |                  |                  |  |
|      | ii.                               | <b>Deviations (if any):</b>            |  |                  |                  |                  | <b>NIL</b>       |                  |                  |                  |  |





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ROLLING STOCK CERTIFICATE

Form No. :

QMF4254;  
Version: 05

|       |   |   |                |  |                     |              |
|-------|---|---|----------------|--|---------------------|--------------|
| 1.    | SHELL No:   | 4481  | DISPATCH DATE: |  |                     | 31.12.2014   |
| 2.    | RAILWAY   | SR  | Type:          | GS   | Coach No.:          | 14512        |
| 3.    | Booked to   | SSE/C&W/PER                                       |                |  |                     |              |
| 4.    | Tare Weight of Coach :                                | 36.99T  |                |  |                     |              |
| 5.    | Carrying Capacity :                                   | Seating:  | 90             | Sleeping:  | NIL                 | 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 |   |                | 200 mm   |                     |              |
| vii)  | Buffer/CBC Height                                     | Specified : 1104 +0 /-10 mm                       |                | 1104/1104  | 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:                     |   |                | Make   |                     |              |
| i.    | BRAKE EQUIPMENT                                       |   |                | ESCORTS  |                     |              |
| ii.   | SEAT & BERTH  |   |                | OVPL   |                     |              |
| iii.  | WATER TANKS   |   |                | RAIL FAB   |                     |              |
| iv.   | PVC   |   |                | RESPONSIVE   |                     |              |
| v.    | FLOOR BOARD   |   |                | TAYAL  |                     |              |
| vi.   | WINDOWS   |   |                | AGF,ABC, MECIDON   |                     |              |
| vii.  | LAV. DOORS  |   |                | JR   |                     |              |
| viii. | LP SHEET  |   |                | NA   |                     |              |
| 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 |               |  |
|      |  | 4481                            | SR                                      |               | GS            |               | 14512         |               | 23-12-2014    |               |  |
| 12.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' |                                 |   |               |               |               |               |               |               |               |  |
| 12.2 | Wheel & Axle Details:                                  | PP Side                         |   |               |               | NPP Side      |               |               |               |               |  |
|      | i.   | Bogie No.                       | 141640                                  |               |               |               | 141542        |               |               |               |  |
|      | ii.  | Frame No.                       | ASR-613                                 |               |               |               | ASR-1212      |               |               |               |  |
|      | iii.   | Axle No.                        | RWF-92586                               |               | P-3292        |               | RWF-91978     |               | P-3237        |               |  |
|      | iv.  | Wheel Diameter                  | 916.00                                  | 916.00        | 916.50        | 916.50        | 916.50        | 916.00        | 917.00        | 916.50        |  |
|      | v.   | Wheel Disc No.                  | 04076/<br>331                           | 03744/<br>222 | 09128/<br>383 | 09138/<br>228 | 03813/<br>259 | 03678/<br>215 | 04267/<br>269 | 04218/25<br>4 |  |
|      | vi.  | R.B. Nos.                       | S452                                    | S469          | S577          | S175          | R131          | R524          | R731          | R87           |  |
|      | 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,AJT       |               |               |               |  |
|      | ii.  | SECONDARY Shock Absorber (Make) |   |               |               |               | K/B           |               |               |               |  |
| 12.4 | i.   | Modification/ Trail (if any):   |   |               |               |               | NIL           |               |               |               |  |
|      | ii.  | Deviations (if any):            |   |               |               |               | NIL           |               |               |               |  |

GS-4481



**ROLLING STOCK CERTIFICATE**

Form No. :

QMF4254;  
Version: 05

|       |   |                                       |  |  |                     |                     |
|-------|---|---------------------------------------|--|--|---------------------|---------------------|
| 1.    | SHELL No:   | <b>4476</b>                           | DISPATCH DATE:                                     |  |                     | <b>31.12.2014</b>   |
| 2.    | RAILWAY   | <b>SR</b>                             | Type:  | <b>GS</b>  | Coach No.:          | <b>14507</b>        |
| 3.    | Booked to   | <b>SSE/C&amp;W/PER</b>                |  |  |                     |                     |
| 4.    | Tare Weight of Coach :                                | <b>36.99T</b>                         |  |  |                     |                     |
| 5.    | Carrying Capacity :                                   | Seating:                              | 90   | Sleeping:  | <b>NIL</b>          | 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 |                                       | 200 mm   |  |                     |                     |
| vii)  | Buffer/CBC Height                                     | Specified : 1104 +0 /-10 mm           | <b>1104/1104</b>                                   | <b>1104/1104</b>   |                     |                     |
| viii) | Buffer/CBC (Make )                                    |                                       | <b>REPL, JLS</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>OVPL</b>  |                     |                     |
| iii.  | WATER TANKS   |                                       |  | <b>RAIL FAB</b>  |                     |                     |
| iv.   | PVC   |                                       |  | <b>RESPONSIVE</b>  |                     |                     |
| v.    | FLOOR BOARD   |                                       |  | <b>TAYAL</b>   |                     |                     |
| vi.   | WINDOWS   |                                       |  | <b>ABC, MECIDON</b>  |                     |                     |
| vii.  | LAV. DOORS  |                                       |  | <b>JR</b>  |                     |                     |
| viii. | LP SHEET  |                                       |  | <b>NA</b>  |                     |                     |
| ix)   | BIO- TOILET   |                                       |  | <b>RAIL FAB</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 |               |
|      |  | 4476                            | SR                                      |               | GS            |               | 14507         |               | 20-12-2014    |               |
| 12.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' |                                 |   |               |               |               |               |               |               |               |
| 12.2 | Wheel & Axle Details:                                  | PP Side                         |   |               |               | NPP Side      |               |               |               |               |
|      | i.   | Bogie No.                       | 141556                                  |               |               |               | 141592        |               |               |               |
|      | ii.  | Frame No.                       | UBLS-1222                               |               |               |               | RBO-1215      |               |               |               |
|      | iii.   | Axle No.                        | P-3576                                  |               | V-9785        |               | P-5948        |               | RWF-91467     |               |
|      | iv.  | Wheel Diameter                  | 917.00                                  | 916.50        | 917.50        | 917.00        | 916.00        | 916.00        | 916.50        | 916.00        |
|      | v.   | Wheel Disc No.                  | 09044/<br>274                           | 05838/<br>280 | 09055/<br>215 | 09121/<br>258 | 07245/<br>285 | 04112/<br>245 | 03926/<br>240 | 03670/37<br>3 |
|      | vi.  | R.B. Nos.                       | V-1060                                  | R-506         | V-1339        | V-1351        | V-1066        | V-1057        | V-1089        | R-400         |
|      | 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)           |   |               |               | AJT           |               |               |               |               |
|      | ii.  | SECONDARY Shock Absorber (Make) |   |               |               | K/B, GABRIEL  |               |               |               |               |
| 12.4 | i.   | Modification/ Trail (if any):   |   |               |               | NIL           |               |               |               |               |
|      | ii.  | Deviations (if any):            |   |               |               | NIL           |               |               |               |               |

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ROLLING STOCK CERTIFICATE

Form No. :

QMF4254;  
Version: 05

|       |   |   |                            |  |                     |            |     |
|-------|---|---|----------------------------|--|---------------------|------------|-----|
| 1.    | SHELL No:   | 4473  | DISPATCH DATE:             |  |                     | 27.12.2014 |     |
| 2.    | RAILWAY   | SR  | Type:                      | GS   | Coach No.:          | 14499      |     |
| 3.    | Booked to   | SSE/C&W/PER                                       |                            |  |                     |            |     |
| 4.    | Tare Weight of Coach :                                | 36.99T  |                            |  |                     |            |     |
| 5.    | Carrying Capacity :                                   | Seating:  | 90                         | Sleeping:  | NIL                 | 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 |   |                            | 200 mm   |                     |            |     |
| vii)  | Buffer/CBC Height                                     | Specified : 1104 +0 /-10 mm                       |                            | 1104/1104  | 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  |                            | AUSTIN   | 85/85               |            |     |
| 8.2   | APPLICATION OF PCN-123                                |   | SATISFACTORY               |  |                     |            |     |
| 8.3   | INSUALTION  |   | SATISFACTORY               |  |                     |            |     |
| 9.    | Traceability of Furnishing Items:                     |   |                            | Make   |                     |            |     |
| i.    | BRAKE EQUIPMENT                                       |   |                            | ESCORTS  |                     |            |     |
| ii.   | SEAT & BERTH  |   |                            | OVPL   |                     |            |     |
| iii.  | WATER TANKS   |   |                            | AMIT   |                     |            |     |
| iv.   | PVC   |   |                            | RESPONSIVE   |                     |            |     |
| v.    | FLOOR BOARD   |   |                            | TAYAL  |                     |            |     |
| vi.   | WINDOWS   |   |                            | AGF, ABC, MECIDON  |                     |            |     |
| vii.  | LAV. DOORS  |   |                            | JR   |                     |            |     |
| viii. | LP SHEET  |   |                            | PUNJAB LAMINATE  |                     |            |     |
| ix)   | BIO- TOILET   |   |                            | M K PRECISION  |                     |            |     |
| 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 |               |               |               |
|      |  | 4473                            | SR                                      |               | GS            | 14499         | 11-12-2014    |               |               |               |
| 12.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' |                                 |   |               |               |               |               |               |               |               |
| 12.2 | Wheel & Axle Details:                                  | PP Side                         |   |               |               | NPP Side      |               |               |               |               |
|      | i.   | Bogie No.                       | 141596                                  |               |               |               | 141598        |               |               |               |
|      | ii.  | Frame No.                       | ASR-729                                 |               |               |               | ASR-1224      |               |               |               |
|      | iii.   | Axle No.                        | A-4176                                  |               | RWF-92484     |               | A-4083        |               | A-5233        |               |
|      | iv.  | Wheel Diameter                  | 916.00                                  | 916.00        | 915.00        | 915.00        | 917.50        | 917.00        | 917.00        | 917.00        |
|      | v.   | Wheel Disc No.                  | 03722/<br>228                           | 03725/<br>270 | 07246/<br>253 | 09124/<br>235 | 08080/<br>387 | 07257/<br>275 | 03715/<br>267 | 08069/24<br>1 |
|      | vi.  | R.B. Nos.                       | V-1436                                  | V-300         | V-489         | S-383         | S-394         | S-426         | V-2434        | V-1788        |
|      | 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)           |   |               |               | AJT,PEW       |               |               |               |               |
|      | ii.  | SECONDARY Shock Absorber (Make) |   |               |               | GABRIEL       |               |               |               |               |
| 12.4 | i.   | Modification/ Trail (if any):   |   |               |               | NIL           |               |               |               |               |
|      | ii.  | Deviations (if any):            |   |               |               | NIL           |               |               |               |               |



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ROLLING STOCK CERTIFICATE

Form No. :

QMF4254;  
Version: 05

|       |   |   |  |  |            |                     |
|-------|---|---|--|--|------------|---------------------|
| 1.    | SHELL No:   | <b>4478</b>                                       | DISPATCH DATE:                                     |  |            | <b>30.12.2014</b>   |
| 2.    | RAILWAY   | <b>SR</b>   | Type:  | <b>GS</b>  | Coach No.: | <b>14508</b>        |
| 3.    | Booked to   | <b>SSE/C&amp;W/PER</b>                            |  |  |            |                     |
| 4.    | Tare Weight of Coach :                                | <b>36.99T</b>                                     |  |  |            |                     |
| 5.    | Carrying Capacity :                                   | Seating:  | <b>90</b>  | Sleeping:  | <b>NIL</b> | 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 |   | 200 mm   |  |            |                     |
| vii)  | Buffer/CBC Height                                     | Specified : 1104 +0 /-10 mm                       | <b>1104/1103</b>                                   | <b>1104/1104</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/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>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:                     |   |  | Make   |            |                     |
| i.    | BRAKE EQUIPMENT                                       |   |  | <b>ESCORTS</b>   |            |                     |
| ii.   | SEAT & BERTH  |   |  | <b>OVPL</b>  |            |                     |
| iii.  | WATER TANKS   |   |  | <b>RAIL FAB</b>  |            |                     |
| iv.   | PVC   |   |  | <b>RESPONSIVE</b>  |            |                     |
| v.    | FLOOR BOARD   |   |  | <b>TAYAL</b>   |            |                     |
| vi.   | WINDOWS   |   |  | <b>ABC, MECIDON</b>  |            |                     |
| vii.  | LAV. DOORS  |   |  | <b>JR</b>  |            |                     |
| viii. | LP SHEET  |   |  | <b>NK</b>  |            |                     |
| ix)   | BIO- TOILET   |   |  | <b>RAIL FAB</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 |
|      |  | 4478                                    | SR            |               | GS            |               | 14508         |               | 20-12-2014    |
| 12.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' |   |               |               |               |               |               |               |               |
| 12.2 | Wheel & Axle Details:                                  | PP Side                                 |               |               |               | NPP Side      |               |               |               |
|      | i. Bogie No.   | 141593                                  |               |               |               | 141636        |               |               |               |
|      | ii. Frame No.  | UBLS-1216                               |               |               |               | ASR-731       |               |               |               |
|      | iii. Axle No.  | A-5449                                  |               | U-4270        |               | U-6846        |               | P-3099        |               |
|      | iv. Wheel Diameter                                     | 915.00                                  | 915.00        | 917.00        | 917.00        | 917.00        | 917.00        | 917.00        | 917.00        |
|      | v. Wheel Disc No.                                      | 08085/<br>373                           | 09148/<br>269 | 09147/<br>382 | 09055/<br>209 | 07379/<br>218 | 07111/<br>233 | 07096/<br>376 | 08947/22<br>4 |
|      | vi. R.B. Nos.  | R412                                    | R347          | V1027         | V1346         | V-1032        | V-1031        | V-1017        | V-1057        |
|      | 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)                   |               |               |               | AJT , PEW     |               |               |               |
|      | ii.  | SECONDARY Shock Absorber (Make)         |               |               |               | GABRIEL,K/B   |               |               |               |
| 12.4 | i.   | Modification/ Trail (if any):           |               |               |               | NIL           |               |               |               |
|      | ii.  | Deviations (if any):                    |               |               |               | NIL           |               |               |               |

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ROLLING STOCK CERTIFICATE

Form No. :

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Version: 05

|       |   |   |  |  |            |                     |
|-------|---|---|--|--|------------|---------------------|
| 1.    | SHELL No:   | <b>4482</b>                                       | DISPATCH DATE:                                     |  |            | <b>30.12.2014</b>   |
| 2.    | RAILWAY   | <b>SR</b>   | Type:  | <b>GS</b>  | Coach No.: | <b>14514</b>        |
| 3.    | Booked to   | <b>SSE/C&amp;W/PER</b>                            |  |  |            |                     |
| 4.    | Tare Weight of Coach :                                | <b>36.99T</b>                                     |  |  |            |                     |
| 5.    | Carrying Capacity :                                   | Seating:  | <b>90</b>  | Sleeping:  | <b>NIL</b> | 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 |   | 200 mm   |  |            |                     |
| vii)  | Buffer/CBC Height                                     | Specified : 1104 +0 /-10 mm                       | <b>1104/1102</b>                                   | <b>1103/1104</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/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>VIBGYOR</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>ESCORTS</b>   |            |                     |
| ii.   | SEAT & BERTH  |   |  | <b>OVPL</b>  |            |                     |
| iii.  | WATER TANKS   |   |  | <b>RAIL FAB</b>  |            |                     |
| iv.   | PVC   |   |  | <b>RESPONSIVE</b>  |            |                     |
| v.    | FLOOR BOARD   |   |  | <b>TAYAL</b>   |            |                     |
| vi.   | WINDOWS   |   |  | <b>AGF,ABC, MECIDON</b>  |            |                     |
| vii.  | LAV. DOORS  |   |  | <b>JR</b>  |            |                     |
| viii. | LP SHEET  |   |  | <b>NA</b>  |            |                     |
| ix)   | BIO- TOILET   |   |  | <b>RAIL FAB</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 |  |
|      |  | 4482                                    |               | SR            |               | GS            |               | 14514         |               | 18-12-2014    |  |
| 12.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' |   |               |               |               |               |               |               |               |               |  |
| 12.2 | Wheel & Axle Details:                                  | PP Side                                 |               |               |               |               | NPP Side      |               |               |               |  |
|      | i. Bogie No.   | 141584                                  |               |               |               |               | 141599        |               |               |               |  |
|      | ii. Frame No.  | RBO-1204                                |               |               |               |               | RBO-1213      |               |               |               |  |
|      | iii. Axle No.  | A-5291                                  |               | Y-7850        |               |               | 2319          |               | P-5706        |               |  |
|      | iv. Wheel Diameter                                     | 916.00                                  | 916.00        | 918.00        | 917.50        | 917.00        | 917.00        | 918.00        | 918.00        |               |  |
|      | v. Wheel Disc No.                                      | 07144/<br>239                           | 04159/<br>284 | 08887/<br>213 | 08853/<br>291 | 07314/<br>226 | 08072/<br>252 | 07246/<br>298 | 04243/24<br>1 |               |  |
|      | vi. R.B. Nos.  | S-492                                   | V-1519        | V-1476        | V-1517        | V-1065        | V-1818        | V-1461        | V-1515        |               |  |
|      | 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)         |               |               |               |               | GABRIEL       |               |               |               |  |
| 12.4 | i.   | Modification/ Trail (if any):           |               |               |               |               | NIL           |               |               |               |  |
|      | ii.  | Deviations (if any):                    |               |               |               |               | NIL           |               |               |               |  |

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Form No. :

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Version: 05

|     |                                   |   |  |  |                     |                     |
|-----|-----------------------------------|---|--|--|---------------------|---------------------|
| 1.  | SHELL No:                         | <b>4479</b>   | DISPATCH DATE:                                     |  |                     | <b>30.12.2014</b>   |
| 2.  | RAILWAY                           | <b>SR</b>   | Type:  | <b>GS</b>  | Coach No.:          | <b>14510</b>        |
| 3.  | Booked to                         | <b>SSE/C&amp;W/PER</b>                                |  |  |                     |                     |
| 4.  | Tare Weight of Coach :            | <b>36.99T</b>   |  |  |                     |                     |
| 5.  | Carrying Capacity :               | Seating:  | <b>90</b>  | Sleeping:  | <b>NIL</b>          | 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 | 200 mm   |  |                     |                     |
|     | vii)                              | Buffer/CBC Height                                     | Specified : 1104 +0 /-10 mm                        | <b>1104/1104</b>   | <b>1104/1104</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/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>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>OVPL</b>  |  |                     |                     |
|     | iii.                              | WATER TANKS   | <b>RAIL FAB</b>                                    |  |                     |                     |
|     | iv.                               | PVC   | <b>RESPONSIVE</b>                                  |  |                     |                     |
|     | v.                                | FLOOR BOARD   | <b>TAYAL</b>                                       |  |                     |                     |
|     | vi.                               | WINDOWS   | <b>ABC, MECIDON</b>                                |  |                     |                     |
|     | vii.                              | LAV. DOORS  | <b>JR</b>  |  |                     |                     |
|     | viii.                             | LP SHEET  | <b>NA</b>  |  |                     |                     |
|     | ix)                               | BIO- TOILET   | <b>RAIL FAB</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 |  |
|      |  | 4479                                    |           | SR        |           | GS        |                 | 14510     |           | 20-12-2014    |  |
| 12.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' |   |           |           |           |           |                 |           |           |               |  |
| 12.2 | Wheel & Axle Details:                                  | PP Side                                 |           |           |           |           | NPP Side        |           |           |               |  |
|      | i. Bogie No.   | 141561                                  |           |           |           |           | 141633          |           |           |               |  |
|      | ii. Frame No.  | ASR-612                                 |           |           |           |           | ASR-706         |           |           |               |  |
|      | iii. Axle No.  | S-1608                                  |           | 2309      |           |           | T-3164          |           | P-3439    |               |  |
|      | iv. Wheel Diameter                                     | 916.50                                  | 916.50    | 913.00    | 913.00    | 916.00    | 916.00          | 917.00    | 917.00    |               |  |
|      | v. Wheel Disc No.                                      | 08945/377                               | 04196/212 | 90083/329 | 04269/372 | 08954/258 | 08945/212       | 07346/216 | 07265/264 |               |  |
|      | vi. R.B. Nos.  | V1084                                   | V1355     | V1491     | V1702     | R-386     | R375            | V1477     | V1482     |               |  |
|      | 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)                   |           |           |           |           | AJT , PEW       |           |           |               |  |
|      | ii.  | SECONDARY Shock Absorber (Make)         |           |           |           |           | GABRIEL         |           |           |               |  |
| 12.4 | i.   | Modification/ Trail (if any):           |           |           |           |           | NIL             |           |           |               |  |
|      | ii.  | Deviations (if any):                    |           |           |           |           | LESS WHELL DIA. |           |           |               |  |

GS-4479



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory , Kapurthala

## ROLLING STOCK CERTIFICATE

Form No. :

QMF4254;

Version: 05

|       |   |                                       |                            |  |                     |              |
|-------|---|---------------------------------------|----------------------------|--|---------------------|--------------|
| 1.    | SHELL No:   | 4480                                  | DISPATCH DATE:             |  |                     | 31.12.2014   |
| 2.    | RAILWAY   | SR                                    | Type:                      | GS   | Coach No.:          | 14511        |
| 3.    | Booked to   | SSE/C&W/PER                           |                            |  |                     |              |
| 4.    | Tare Weight of Coach :                                | 36.99T                                |                            |  |                     |              |
| 5.    | Carrying Capacity :                                   | Seating:                              | 90                         | Sleeping:  | NIL                 | 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 |                                       |                            | 200 mm   |                     |              |
| vii)  | Buffer/CBC Height                                     | Specified : 1104 +0 /-10 mm           |                            | 1104/1104  | 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/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                              |                            | VIBGYOR  | 85/86               |              |
| 8.2   | APPLICATION OF PCN-123                                |                                       | SATISFACTORY               |  |                     |              |
| 8.3   | INSUALTION  |                                       | SATISFACTORY               |  |                     |              |
| 9.    | Traceability of Furnishing Items:                     |                                       |                            | Make   |                     |              |
| i.    | BRAKE EQUIPMENT                                       |                                       |                            | ESCORTS  |                     |              |
| ii.   | SEAT & BERTH  |                                       |                            | OVPL   |                     |              |
| iii.  | WATER TANKS   |                                       |                            | RAIL FAB   |                     |              |
| iv.   | PVC   |                                       |                            | RESPONSIVE   |                     |              |
| v.    | FLOOR BOARD   |                                       |                            | TAYAL  |                     |              |
| vi.   | WINDOWS   |                                       |                            | AGF,ABC, MECIDON   |                     |              |
| vii.  | LAV. DOORS  |                                       |                            | JR   |                     |              |
| viii. | LP SHEET  |                                       |                            | NA   |                     |              |
| ix)   | BIO- TOILET   |                                       |                            | RAIL FAB   |                     |              |
| 10.   | 10.1  | Modification/ Trial (if any):         |                            |  | NIL                 |              |
|       | 10.2  | Deviations (if any):                  |                            |  | NIL                 |              |



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|      |   |  |   |               |               |               |               |               |               |               |  |
|------|---|--|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|
| 12.  | <b>Bogie Details:</b>   | Shell No.                              | Railway                                 |               | Type          | Coach No.     |               | Dispatch Date |               |               |  |
|      |   | 4480                                   | SR                                      |               | GS            | 14511         |               | 23-12-2014    |               |               |  |
| 12.1 | <b>BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a'</b> |  |   |               |               |               |               |               |               |               |  |
| 12.2 | <b>Wheel &amp; Axle Details:</b>                              | PP Side                                |   |               |               |               | NPP Side      |               |               |               |  |
|      | i.  | <b>Bogie No.</b>                       | 141641                                  |               |               |               |               | 141639        |               |               |  |
|      | ii.   | <b>Frame No.</b>                       | ASR-606                                 |               |               |               |               | ASR-535       |               |               |  |
|      | iii.  | <b>Axle No.</b>                        | 5357                                    |               | A-5082        |               | W2848         |               | A-5179        |               |  |
|      | iv.   | <b>Wheel Diameter</b>                  | 917.00                                  | 917.00        | 916.00        | 916.50        | 917.00        | 917.00        | 916.00        | 916.00        |  |
|      | v.  | <b>Wheel Disc No.</b>                  | 08079/<br>380                           | 08912/<br>251 | 08889/<br>213 | 07131/<br>274 | 09078/<br>286 | 03770/<br>263 | 08075/<br>284 | 04227/27<br>5 |  |
|      | vi.   | <b>R.B. Nos.</b>                       | R308                                    | S256          | S239          | S189          | S249          | S292          | R467          | R434          |  |
|      | vii.  | <b>R.B. Make</b>                       | FAG                                     |               | FAG           |               | FAG           |               | FAG           |               |  |
|      | viii.   | <b>R.B. Type</b>                       | Direct Mounted Spherical Roller Bearing |               |               |               |               |               |               |               |  |
| 12.3 | <b>Items Traceability:</b>                                    |  |   |               |               |               |               |               |               |               |  |
|      | i.  | <b>BRAKE CYLINDER (Make)</b>           |   |               |               |               | PEW,AJT       |               |               |               |  |
|      | ii.   | <b>SECONDARY Shock Absorber (Make)</b> |   |               |               |               | ESCORT,K/B    |               |               |               |  |
| 12.4 | i.  | Modification/ Trail (if any):          |   |               |               |               | NIL           |               |               |               |  |
|      | ii.   | Deviations (if any):                   |   |               |               |               | NIL           |               |               |               |  |

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ROLLING STOCK CERTIFICATE

Form No. :

QMF4254;

|       |   |                                       |                            |  |                     |              |
|-------|---|---------------------------------------|----------------------------|--|---------------------|--------------|
| 1.    | SHELL No:   | 4477                                  | DISPATCH DATE:             |  |                     | 31.12.2014   |
| 2.    | RAILWAY   | SR                                    | Type:                      | GS   | Coach No.:          | 14509        |
| 3.    | Booked to   | SSE/C&W/PER                           |                            |  |                     |              |
| 4.    | Tare Weight of Coach :                                | 36.99T                                |                            |  |                     |              |
| 5.    | Carrying Capacity :                                   | Seating:                              | 90                         | Sleeping:  | NIL                 | 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 |                                       |                            | 200 mm   |                     |              |
| vii)  | Buffer/CBC Height                                     | Specified : 1104 +0 /-10 mm           |                            | 1104/1104  | 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/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                              |                            | VIBGYOR  | 85/86               |              |
| 8.2   | APPLICATION OF PCN-123                                |                                       | SATISFACTORY               |  |                     |              |
| 8.3   | INSUALTION  |                                       | SATISFACTORY               |  |                     |              |
| 9.    | Traceability of Furnishing Items:                     |                                       |                            | Make   |                     |              |
| i.    | BRAKE EQUIPMENT                                       |                                       |                            | ESCORTS  |                     |              |
| ii.   | SEAT & BERTH  |                                       |                            | OVPL   |                     |              |
| iii.  | WATER TANKS   |                                       |                            | RAIL FAB   |                     |              |
| iv.   | PVC   |                                       |                            | RESPONSIVE   |                     |              |
| v.    | FLOOR BOARD   |                                       |                            | TAYAL  |                     |              |
| vi.   | WINDOWS   |                                       |                            | ABC, MECIDON   |                     |              |
| vii.  | LAV. DOORS  |                                       |                            | JR   |                     |              |
| viii. | LP SHEET  |                                       |                            | NA   |                     |              |
| 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 |
|-----|----------------|-----------|---------|------|-----------|---------------|
|     |                | 4477      | SR      | GS   | 14509     | 15-12-2014    |

|      |  |                                 |   |           |           |           |             |           |           |           |  |
|------|--|---------------------------------|---|-----------|-----------|-----------|-------------|-----------|-----------|-----------|--|
| 12.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' |                                 |   |           |           |           |             |           |           |           |  |
| 12.2 | Wheel & Axle Details:                                  |                                 | PP Side                                 |           |           |           | NPP Side    |           |           |           |  |
|      | i.   | Bogie No.                       | 141586                                  |           |           |           | 141571      |           |           |           |  |
|      | ii.  | Frame No.                       | ASR-714                                 |           |           |           | RBO-1194    |           |           |           |  |
|      | iii.   | Axle No.                        | M-6462                                  |           | P-1937    |           | RWF-103956  |           | A-4818    |           |  |
|      | iv.  | Wheel Diameter                  | 916.50                                  | 916.00    | 916.00    | 916.50    | 916.00      | 916.50    | 916.50    | 916.00    |  |
|      | v.   | Wheel Disc No.                  | 07298/253                               | 03709/253 | 06932/282 | 06335/272 | 08946/249   | 04278/214 | 04247/241 | 07336/286 |  |
|      | vi.  | R.B. Nos.                       | V-1314                                  | V-559     | V-1826    | V-1495    | V-420       | S-750     | V-1829    | V-1483    |  |
|      | 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,AJT     |           |           |           |  |
|      | ii.  | SECONDARY Shock Absorber (Make) |   |           |           |           | GABRIEL,K/B |           |           |           |  |
| 12.4 | i.   | Modification/ Trail (if any):   |   |           |           |           | NIL         |           |           |           |  |
|      | ii.  | Deviations (if any):            |   |           |           |           | NIL         |           |           |           |  |

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Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. :

QMF4254;  
Version: 05

|    |           |      |                |            |
|----|-----------|------|----------------|------------|
| 1. | SHELL No: | 4485 | DISPATCH DATE: | 31.12.2014 |
|----|-----------|------|----------------|------------|



|       |   |                                       |  |                     |              |       |
|-------|---|---------------------------------------|--|---------------------|--------------|-------|
| 2.    | RAILWAY   | SR                                    | Type:  | GS                  | Coach No.:   | 14515 |
| 3.    | Booked to   |                                       | SSE/C&W/PER  |                     |              |       |
| 4.    | Tare Weight of Coach :                                |                                       | 36.99T   |                     |              |       |
| 5.    | Carrying Capacity :                                   |                                       | Seating: 90  | Sleeping: NIL       | 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 |                                       | 200 mm   |                     |              |       |
| vii)  | Buffer/CBC Height                                     | Specified : 1104 +0 /-10 mm           | 1104/1104  |                     | 1103/1104    |       |
| 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/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                              | VIBGYOR  | 85/86               |              |       |
| 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  |                                       | OVPL   |                     |              |       |
| iii.  | WATER TANKS   |                                       | RAIL FAB   |                     |              |       |
| iv.   | PVC   |                                       | RESPONSIVE   |                     |              |       |
| v.    | FLOOR BOARD   |                                       | TAYAL  |                     |              |       |
| vi.   | WINDOWS   |                                       | AGF,ABC, MECIDON   |                     |              |       |
| vii.  | LAV. DOORS  |                                       | JR   |                     |              |       |
| viii. | LP SHEET  |                                       | NA   |                     |              |       |
| 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 |
|      |  | 4485      | SR      | GS   | 14515     | 01-10-2014    |
| 12.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' |           |         |      |           |               |

|      |                                  |  |  |                  |                  |                  |                     |                  |                  |                  |  |
|------|----------------------------------|--|--|------------------|------------------|------------------|---------------------|------------------|------------------|------------------|--|
| 12.2 | <b>Wheel &amp; Axle Details:</b> |  | <b>PP Side</b>                                 |                  |                  |                  | <b>NPP Side</b>     |                  |                  |                  |  |
|      | i.                               | <b>Bogie No.</b>                       | <b>141169</b>                                  |                  |                  |                  | <b>141203</b>       |                  |                  |                  |  |
|      | ii.                              | <b>Frame No.</b>                       | <b>RBO-1088</b>                                |                  |                  |                  | <b>RBO-1126</b>     |                  |                  |                  |  |
|      | iii.                             | <b>Axle No.</b>                        | <b>S-7389</b>                                  |                  | <b>U-8151</b>    |                  | <b>681</b>          |                  | <b>3646</b>      |                  |  |
|      | iv.                              | <b>Wheel Diameter</b>                  | <b>917.50</b>                                  | <b>917.50</b>    | <b>917.00</b>    | <b>917.00</b>    | <b>916.00</b>       | <b>916.00</b>    | <b>916.00</b>    | <b>916.00</b>    |  |
|      | v.                               | <b>Wheel Disc No.</b>                  | <b>07128/268</b>                               | <b>08086/291</b> | <b>07032/290</b> | <b>07030/286</b> | <b>03810/244</b>    | <b>03835/269</b> | <b>08802/387</b> | <b>08839/385</b> |  |
|      | vi.                              | <b>R.B. Nos.</b>                       | <b>T-459</b>                                   | <b>T-1893</b>    | <b>U-2531</b>    | <b>U-2535</b>    | <b>T-2147</b>       | <b>T-2199</b>    | <b>T-2181</b>    | <b>T-2179</b>    |  |
|      | vii.                             | <b>R.B. Make</b>                       | <b>FAG</b>                                     |                  | <b>FAG</b>       |                  | <b>FAG</b>          |                  | <b>FAG</b>       |                  |  |
|      | viii.                            | <b>R.B. Type</b>                       | <b>Direct Mounted Spherical Roller Bearing</b> |                  |                  |                  |                     |                  |                  |                  |  |
| 12.3 | <b>Items Traceability:</b>       |  |  |                  |                  |                  |                     |                  |                  |                  |  |
|      | i.                               | <b>BRAKE CYLINDER (Make)</b>           |  |                  |                  |                  | <b>AJT</b>          |                  |                  |                  |  |
|      | ii.                              | <b>SECONDARY Shock Absorber (Make)</b> |  |                  |                  |                  | <b>KNORR-BREMSE</b> |                  |                  |                  |  |
| 12.4 | i.                               | <b>Modification/ Trail (if any):</b>   |  |                  |                  |                  | <b>NIL</b>          |                  |                  |                  |  |
|      | ii.                              | <b>Deviations (if any):</b>            |  |                  |                  |                  | <b>NIL</b>          |                  |                  |                  |  |

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**ROLLING STOCK CERTIFICATE**

Form No. :

QMF4254;  
Version: 05

|     |                                   |   |  |  |                     |              |
|-----|-----------------------------------|---|--|--|---------------------|--------------|
| 1.  | SHELL No:                         | 4483  | DISPATCH DATE:                                     |  |                     | 03.01.2015   |
| 2.  | RAILWAY                           | SR  | Type:  | GS   | Coach No.:          | 14513        |
| 3.  | Booked to                         | SSE/C&W/PER   |  |  |                     |              |
| 4.  | Tare Weight of Coach :            | 36.99T  |  |  |                     |              |
| 5.  | Carrying Capacity :               | Seating:  | 90   | Sleeping:  | NIL                 | 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 | 200 mm   |  |                     |              |
|     | vii)                              | Buffer/CBC Height                                     | Specified : 1104 +0 /-10 mm                        | 1104/1103  | 1104/1104           |              |
|     | viii)                             | Buffer/CBC (Make )                                    | REPL   |  |                     |              |
|     | ix)                               | Draw Gear (Make)                                      | EMSON  |  |                     |              |
| 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   | 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  |  | OVPL   |                     |              |
|     | iii.                              | WATER TANKS   |  | RAIL FAB   |                     |              |
|     | iv.                               | PVC   |  | RESPONSIVE   |                     |              |
|     | v.                                | FLOOR BOARD   |  | TAYAL  |                     |              |
|     | vi.                               | WINDOWS   |  | AGF,ABC, MECIDON   |                     |              |
|     | vii.                              | LAV. DOORS  |  | JR   |                     |              |
|     | viii.                             | LP SHEET  |  | NK   |                     |              |
|     | ix)                               | BIO- TOILET   |  | RAIL FAB   |                     |              |
| 10. | 10.1                              | Modification/ Trial (if any):                         |  |  |                     | NIL          |
|     | 10.2                              | Deviations (if any):                                  |  |  |                     | NIL          |



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Rail Coach Factory , Kapurthala

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|      |  |   |               |               |               |                |               |               |               |
|------|--|---|---------------|---------------|---------------|----------------|---------------|---------------|---------------|
| 12.  | Bogie Details:   | Shell No.                               | Railway       | Type          | Coach No.     | Dispatch Date  |               |               |               |
|      |  | 4483                                    | SR            | GS            | 14513         | 19-12-2014     |               |               |               |
| 12.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' |   |               |               |               |                |               |               |               |
| 12.2 | Wheel & Axle Details:                                  | PP Side                                 |               |               |               | NPP Side       |               |               |               |
|      | i. Bogie No.   | 141618                                  |               |               |               | 141634         |               |               |               |
|      | ii. Frame No.  | ASR-705                                 |               |               |               | ASR-385        |               |               |               |
|      | iii. Axle No.  | Z-7395                                  |               | 4661          |               | A-5195         |               | V-9793        |               |
|      | iv. Wheel Diameter                                     | 917.50                                  | 917.00        | 916.50        | 916.00        | 916.00         | 916.00        | 916.00        | 916.00        |
|      | v. Wheel Disc No.                                      | 08948/<br>228                           | 04002/<br>259 | 03731/<br>254 | 08065/<br>249 | 09133/<br>218  | 07106/<br>380 | 08949/<br>282 | 03663/20<br>8 |
|      | vi. R.B. Nos.  | R355                                    | R421          | R326          | R321          | R242           | R376          | R121          | R207          |
|      | 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)         |               |               |               | GABRIEL,ESCORT |               |               |               |
| 12.4 | i.   | Modification/ Trail (if any):           |               |               |               | NIL            |               |               |               |
|      | ii.  | Deviations (if any):                    |               |               |               | NIL            |               |               |               |

GS-4483