



ROLLING STOCK CERTIFICATE

Form No. : **QMF4254; Version: 05**

|     |                                   |   |                                       |                 |  |              |
|-----|-----------------------------------|---|---------------------------------------|-----------------|--|--------------|
| 1.  | SHELL No:                         | 5027  | DISPATCH DATE:                        |                 |  | 24.11.2015   |
| 2.  | Rly:                              | NR  | Type:                                 | MEMU/TC2        | Coach No.:   | 31341        |
| 3.  | Booked to                         | <b>SSE/C&amp;W/GZB</b>                                |                                       |                 |  |              |
| 4.  | Tare Weight of Coach :            | 33.15 T   |                                       |                 |  |              |
| 5.  | Carrying Capacity :               | Seating:  | 80                                    | <b>Standing</b> | 272  | Luggage: NIL |
| 6.  | Shell Details: (SG-90004 alt 'b') |   |                                       |                 |  |              |
|     | <b>6.1</b>                        | <b>Leading Dimensions;</b>                            |                                       |                 |  |              |
|     | i)                                | Maximum height above rail to top of Roof ventilator   |                                       |                 | 4100 ± 5 (for NAC)<br>4250 +0/-5 (for WGACCN only)                   |              |
|     | ii)                               | Maximum length over Body                              |                                       |                 | 21337 ± 10   |              |
|     | iii)                              | Maximum length over Buffer                            |                                       |                 | 22297 ± 15   |              |
|     | iv)                               | Maximum width over Body                               |                                       |                 | 3245 ± 5   |              |
|     | v)                                | Maximum width over Flasher light                      |                                       |                 | 3402 +0/-5   |              |
|     | vi)                               | Minimum height above rail level to the lowest fitting |                                       |                 | 181.5 mm ( AE63143)  |              |
|     | vii)                              | Buffer/CBC Height                                     | Specified : 1104 +0 /-10 mm           |                 | NA   | NA           |
|     | vii)                              | Make :  | SANROK                                |                 |  |              |
|     | ix)                               | Shaku Coupler Height                                  | Specified : 1035 +0 /-5 mm            |                 | 1035/1035  |              |
|     | x)                                | Shaku Coupler Make:                                   | SANROK                                |                 |  |              |
| 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                              | GS              | 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   |              |
|     | lii                               | PVC   |                                       |                 | RESPONSIVE   |              |
|     | lv                                | FLOOR BOARD   |                                       |                 | TAYAL  |              |
|     | v                                 | UIC VESTIBULE   |                                       |                 | CEMCON   |              |
|     | Vi                                | LP SHEETS   |                                       |                 | NK   |              |
|     | Vii                               | BODY SIDE WINDOW                                      |                                       |                 | GI   |              |
|     | Viii                              | EMERGENCY WINDOW                                      |                                       |                 | GI   |              |
|     | Xi                                | DOOR WINDOW   |                                       |                 | GI   |              |
|     | X                                 | WATER TANK  |                                       |                 | RAIL FAB   |              |
|     | Xi                                | LAV WINDOW  |                                       |                 | AGF  |              |
|     | xii                               | LAV DOOR  |                                       |                 | GANDHI   |              |
|     | XIII                              | BIO TOILET  |                                       |                 | NA   |              |
| 10. | 10.1                              | Modification/ Trial (if any):                         |                                       |                 | NIL  |              |
|     | 10.2                              | Deviations (if any):                                  |                                       |                 | NIL  |              |



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

Page 2 of 3

|      |  |   |           |          |                   |               |                   |           |           |
|------|--|---|-----------|----------|-------------------|---------------|-------------------|-----------|-----------|
| 11.  | Bogie Details:   | Shell No.                               | Railway   | Type     | Coach No.         | Dispatch Date |                   |           |           |
|      |  | 5027                                    | NR        | MEMU/TC  | 31341             | 04-11-2015    |                   |           |           |
| 11.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' |   |           |          |                   |               |                   |           |           |
| 11.2 | Wheel & Axle Details:                                  | PP Side                                 |           |          |                   | NPP Side      |                   |           |           |
|      | i. Bogie No.   | 155055                                  |           |          |                   | 155056        |                   |           |           |
|      | ii. Frame No.  | ASR-202                                 |           |          |                   | ASR-200       |                   |           |           |
|      | iii. Axle No.  | A-4583                                  |           | Y-6942   |                   | V-9784        |                   | RWF-98140 |           |
|      | iv. Wheel Diameter                                     | 955.00                                  | 955.00    | 955.00   | 955.00            | 953.00        | 953.00            | 954.00    | 954.00    |
|      | v. Wheel Disc No.                                      | 10372/937                               | 09051/998 | 8841/958 | 08848/938         | 07340/937     | 05821/960         | 08822/936 | 09007/946 |
|      | vi. R.B. Nos.  | H1389                                   | H1385     | H1376    | H1390             | V-2149        | V-1295            | D0904     | C3019     |
|      | vii. R.B. Make   | NBC                                     |           | NBC      |                   | FAG           |                   | NBC       |           |
|      | viii. R.B. Type  | Direct Mounted Spherical Roller Bearing |           |          |                   |               |                   |           |           |
| 11.3 | <u>Items Traceability:</u>                             |   |           |          | PP SIDE           |               | NPP SIDE          |           |           |
|      | i.   | BRAKE CYLINDER Make & NO.               |           |          | PEW-12127,9058    |               | PEW-9039,9057     |           |           |
|      | ii.  | SECONDARY Shock Absorber Make &NO.      |           |          | ESCORTS-8737,8914 |               | ESCORTS-8648,8625 |           |           |
| 11.4 | i.   | Modification/ Trail (if any):           |           |          | NIL               |               |                   |           |           |
|      | ii.  | Deviations (if any):                    |           |          | NIL               |               |                   |           |           |

MEMU/TC2—5027



रेल डिब्बा कारखाना, कपूरथला  
Rail Coach Factory, Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. : QMF4254; Version: 05

|     |                                   |   |                                       |                            |  |              |
|-----|-----------------------------------|---|---------------------------------------|----------------------------|--|--------------|
| 1.  | SHELL No:                         | 5029  | DISPATCH DATE:                        |                            |  | 27.11.2015   |
| 2.  | Rly:                              | NR  | Type:                                 | MEMU/TC2                   | Coach No.:   | 31340        |
| 3.  | Booked to                         | SSE/C&W/NDLS  |                                       |                            |  |              |
| 4.  | Tare Weight of Coach :            | 33.15 T   |                                       |                            |  |              |
| 5.  | Carrying Capacity :               | Seating:  | 80                                    | Standing                   | 272  | Luggage: NIL |
| 6.  | Shell Details: (SG-90004 alt 'b') |   |                                       |                            |  |              |
|     | 6.1                               | Leading Dimensions;                                   |                                       |                            |  |              |
|     | i)                                | Maximum height above rail to top of Roof ventilator   |                                       |                            | 4100 ± 5 (for NAC)<br>4250 +0/-5 (for WGACCN only)                   |              |
|     | ii)                               | Maximum length over Body                              |                                       |                            | 21337 ± 10   |              |
|     | iii)                              | Maximum length over Buffer                            |                                       |                            | 22297 ± 15   |              |
|     | iv)                               | Maximum width over Body                               |                                       |                            | 3245 ± 5   |              |
|     | v)                                | Maximum width over Flasher light                      |                                       |                            | 3402 +0/-5   |              |
|     | vi)                               | Minimum height above rail level to the lowest fitting |                                       |                            | 181.5 mm ( AE63143)  |              |
|     | vii)                              | Buffer/CBC Height                                     | Specified : 1104 +0 /-10 mm           |                            | NA   | NA           |
|     | vii)                              | Make :  | ESCORTS                               |                            |  |              |
|     | ix)                               | Shaku Coupler Height                                  | Specified : 1035 +0 /-5 mm            |                            | 1035/1035  |              |
|     | x)                                | Shaku Coupler Make:                                   | WSF, SANROK                           |                            |  |              |
| 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                              | GS                         | 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   |              |
|     | lii                               | PVC   |                                       |                            | RESPONSIVE   |              |
|     | Iv                                | FLOOR BOARD   |                                       |                            | TAYAL  |              |
|     | V                                 | UIC VESTIBULE   |                                       |                            | CEMCON   |              |
|     | Vi                                | LP SHEETS   |                                       |                            | NA   |              |
|     | Vii                               | BODY SIDE WINDOW                                      |                                       |                            | GI   |              |
|     | Viii                              | EMERGENCY WINDOW                                      |                                       |                            | ABC  |              |
|     | Xi                                | DOOR WINDOW   |                                       |                            | GI   |              |
|     | X                                 | WATER TANK  |                                       |                            | RAIL FAB   |              |
|     | Xi                                | LAV WINDOW  |                                       |                            | AGF  |              |
|     | xii                               | LAV DOOR  |                                       |                            | GANDHI   |              |
| 10. | 10.1                              | Modification/ Trial (if any):                         |                                       |                            | NIL  |              |
|     | 10.2                              | Deviations (if any):                                  |                                       |                            | NIL  |              |



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

Page 2 of 3

|      |  |   |           |           |                   |               |                   |           |           |
|------|--|---|-----------|-----------|-------------------|---------------|-------------------|-----------|-----------|
| 11.  | Bogie Details:   | Shell No.                               | Railway   | Type      | Coach No.         | Dispatch Date |                   |           |           |
|      |  | 5029                                    | NR        | MEMU/TC   | 31340             | 09-11-2015    |                   |           |           |
| 11.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' |   |           |           |                   |               |                   |           |           |
| 11.2 | Wheel & Axle Details:                                  | PP Side                                 |           |           |                   | NPP Side      |                   |           |           |
|      | i. Bogie No.   | 155057                                  |           |           |                   | 155058        |                   |           |           |
|      | ii. Frame No.  | ASR-208                                 |           |           |                   | ASR-207       |                   |           |           |
|      | iii. Axle No.  | A-4621                                  |           | A-5256    |                   | A-4834        |                   | Y-8549    |           |
|      | iv. Wheel Diameter                                     | 954.00                                  | 954.00    | 953.00    | 953.00            | 955.00        | 955.00            | 955.00    | 955.00    |
|      | v. Wheel Disc No.                                      | 08906/940                               | 08930/942 | 09054/929 | 09021/945         | 07325/943     | 10699/930         | 08940/928 | 08837/946 |
|      | vi. R.B. Nos.  | D-0915                                  | D-0899    | V2122     | V2402             | H1372         | H0895             | H1374     | H1902     |
|      | vii. R.B. Make   | FAG                                     |           | FAG       |                   | NBC           |                   | NBC       |           |
|      | viii. R.B. Type  | Direct Mounted Spherical Roller Bearing |           |           |                   |               |                   |           |           |
| 11.3 | <u>Items Traceability:</u>                             |   |           |           | PP SIDE           |               | NPP SIDE          |           |           |
|      | i.   | BRAKE CYLINDER Make & NO.               |           |           | ESCORT-9007,9015  |               | ESCORT-9017,9022  |           |           |
|      | ii.  | SECONDARY Shock Absorber Make &NO.      |           |           | ESCORTS-8701,8616 |               | ESCORTS-8919,8556 |           |           |
| 11.4 | i.   | Modification/ Trail (if any):           |           |           | NIL               |               |                   |           |           |
|      | ii.  | Deviations (if any):                    |           |           | NIL               |               |                   |           |           |

MEMU/TC2—5029



ROLLING STOCK CERTIFICATE

Form No. : **QMF4254; Version: 05**

|     |                                   |   |                                       |          |  |              |
|-----|-----------------------------------|---|---------------------------------------|----------|--|--------------|
| 1.  | SHELL No:                         | 5030  | DISPATCH DATE:                        |          |  | 02.12.2015   |
| 2.  | Rly:                              | NR  | Type:                                 | MEMU/TC2 | Coach No.:   | 31342        |
| 3.  | Booked to                         | <b>SSE/C&amp;W/GZB</b>                                |                                       |          |  |              |
| 4.  | Tare Weight of Coach :            | 33.15 T   |                                       |          |  |              |
| 5.  | Carrying Capacity :               | Seating:  | 80                                    | Standing | 272  | Luggage: NIL |
| 6.  | Shell Details: (SG-90004 alt 'b') |   |                                       |          |  |              |
|     | <b>6.1 Leading Dimensions;</b>    |   |                                       |          |  |              |
|     | i)                                | Maximum height above rail to top of Roof ventilator   |                                       |          | 4100 ± 5 (for NAC)<br>4250 +0/-5 (for WGACCN only)                   |              |
|     | ii)                               | Maximum length over Body                              |                                       |          | 21337 ± 10   |              |
|     | iii)                              | Maximum length over Buffer                            |                                       |          | 22297 ± 15   |              |
|     | iv)                               | Maximum width over Body                               |                                       |          | 3245 ± 5   |              |
|     | v)                                | Maximum width over Flasher light                      |                                       |          | 3402 +0/-5   |              |
|     | vi)                               | Minimum height above rail level to the lowest fitting |                                       |          | 181.5 mm ( AE63143)  |              |
|     | vii)                              | Buffer/CBC Height                                     | Specified : 1104 +0 /-10 mm           |          | NA   | NA           |
|     | vii)                              | Make :  |                                       |          |  | SANROK       |
|     | ix)                               | Shaku Coupler Height                                  | Specified : 1035 +0 /-5 mm            |          | 1035/1035  |              |
|     | x)                                | Shaku Coupler Make:                                   |                                       |          |  | SANROK, WSF  |
| 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                              | GS       | 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   |              |
|     | lii                               | PVC   |                                       |          | RESPONSIVE   |              |
|     | Iv                                | FLOOR BOARD   |                                       |          | TAYAL  |              |
|     | V                                 | UIC VESTIBULE   |                                       |          | CEMCON   |              |
|     | Vi                                | LP SHEETS   |                                       |          | NA   |              |
|     | Vii                               | BODY SIDE WINDOW                                      |                                       |          | GI   |              |
|     | Viii                              | EMERGENCY WINDOW                                      |                                       |          | GI   |              |
|     | Xi                                | DOOR WINDOW   |                                       |          | GI   |              |
|     | X                                 | WATER TANK  |                                       |          | RAIL FAB   |              |
|     | Xi                                | LAV WINDOW  |                                       |          | AGF  |              |
|     | xii                               | LAV DOOR  |                                       |          | GANDHI   |              |
| 10. | 10.1                              | Modification/ Trial (if any):                         |                                       |          | NIL  |              |
|     | 10.2                              | Deviations (if any):                                  |                                       |          | NIL  |              |



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

Page 2 of 3

|      |  |   |               |               |                   |               |               |                   |               |
|------|--|---|---------------|---------------|-------------------|---------------|---------------|-------------------|---------------|
| 11.  | Bogie Details:   | Shell No.                               | Railway       | Type          | Coach No.         | Dispatch Date |               |                   |               |
|      |  | 5030                                    | NR            | MEMU/TC       | 31342             | 19-12-2015    |               |                   |               |
| 11.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' |   |               |               |                   |               |               |                   |               |
| 11.2 | Wheel & Axle Details:                                  | PP Side                                 |               |               |                   | NPP Side      |               |                   |               |
|      | i. Bogie No.   | 155069                                  |               |               |                   | 155060        |               |                   |               |
|      | ii. Frame No.  | ASR-215                                 |               |               |                   | ASR-217       |               |                   |               |
|      | iii. Axle No.  | S-7564                                  |               | A-3955        |                   | Y-6962        |               | A-3914            |               |
|      | iv. Wheel Diameter                                     | 954.00                                  | 954.00        | 954.00        | 954.00            | 953.00        | 953.00        | 953.00            | 953.00        |
|      | v. Wheel Disc No.                                      | 08787/<br>946                           | 09036/<br>960 | 09045/<br>946 | 04274/<br>944     | 10233/<br>942 | 09699/<br>939 | 09046/<br>946     | 08918/92<br>8 |
|      | vi. R.B. Nos.  | U2803                                   | U2590         | S0873         | S0867             | R0925         | R0396         | R0453             | R0407         |
|      | vii. R.B. Make   | FAG                                     |               | FAG           |                   | FAG           |               | FAG               |               |
|      | viii. R.B. Type  | Direct Mounted Spherical Roller Bearing |               |               |                   |               |               |                   |               |
| 11.3 | <u>Items Traceability:</u>                             |   |               |               | PP SIDE           |               | NPP SIDE      |                   |               |
|      | i.   | BRAKE CYLINDER Make & NO.               |               |               | WSF-568,576       |               |               | WSF-78,578        |               |
|      | ii.  | SECONDARY Shock Absorber Make &NO.      |               |               | IAI-139997,131684 |               |               | ESCORTS-8853,8712 |               |
| 11.4 | i.   | Modification/ Trail (if any):           |               |               | NIL               |               |               |                   |               |
|      | ii.  | Deviations (if any):                    |               |               | NIL               |               |               |                   |               |

MEMUTC5030

**रेल डिब्बा कारखाना, कपूरथला**  
Rail Coach Factory , Kapurthala

Page 1 of 3

**ROLLING STOCK CERTIFICATE**

Form No. : **QMF4254; Version: 05**

|    |                                   |   |                                       |                 |  |              |
|----|-----------------------------------|---|---------------------------------------|-----------------|--|--------------|
| 1. | SHELL No:                         | 5031  | DISPATCH DATE:                        |                 |  | 10.11.2015   |
| 2. | Rly:                              | NR  | Type:                                 | MEMU/TC2        | Coach No.:   | 31343        |
| 3. | Booked to                         | <b>SSE/C&amp;W/GZB</b>                                |                                       |                 |  |              |
| 4. | Tare Weight of Coach :            | 33.15 T   |                                       |                 |  |              |
| 5. | Carrying Capacity :               | Seating:  | 80                                    | <b>Standing</b> | 272  | Luggage: NIL |
| 6. | Shell Details: (SG-90004 alt 'b') |   |                                       |                 |  |              |
|    | <b>6.1</b>                        | <b>Leading Dimensions;</b>                            |                                       |                 |  |              |
|    | i)                                | Maximum height above rail to top of Roof ventilator   |                                       |                 | 4100 ± 5 (for NAC)<br>4250 +0/-5 (for WGACCN only)                   |              |
|    | ii)                               | Maximum length over Body                              |                                       |                 | 21337 ± 10   |              |
|    | iii)                              | Maximum length over Buffer                            |                                       |                 | 22297 ± 15   |              |
|    | iv)                               | Maximum width over Body                               |                                       |                 | 3245 ± 5   |              |
|    | v)                                | Maximum width over Flasher light                      |                                       |                 | 3402 +0/-5   |              |
|    | vi)                               | Minimum height above rail level to the lowest fitting |                                       |                 | 181.5 mm ( AE63143)  |              |
|    | vii)                              | Buffer/CBC Height                                     | Specified : 1104 +0 /-10 mm           |                 | NA   | NA           |
|    | vii)                              | Make :  | SANROK                                |                 |  |              |
|    | ix)                               | Shaku Coupler Height                                  | Specified : 1035 +0 /-5 mm            |                 | 1035/1035  |              |
|    | x)                                | Shaku Coupler Make:                                   | SANROK                                |                 |  |              |
| 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                              | GS              | 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   |              |
|    | lii                               | PVC   |                                       |                 | RESPONSIVE   |              |
|    | lv                                | FLOOR BOARD   |                                       |                 | TAYAL  |              |
|    | v                                 | UIC VESTIBULE   |                                       |                 | CEMCON   |              |
|    | Vi                                | LP SHEETS   |                                       |                 | NA   |              |
|    | Vii                               | BODY SIDE WINDOW                                      |                                       |                 | GI   |              |
|    | Viii                              | EMERGENCY WINDOW                                      |                                       |                 | GI   |              |
|    | Xi                                | DOOR WINDOW   |                                       |                 | GI   |              |
|    | X                                 | WATER TANK  |                                       |                 | RAIL FAB   |              |
|    | Xi                                | LAV WINDOW  |                                       |                 | AGF  |              |
|    | xii                               | LAV DOOR  |                                       |                 | TWPL   |              |



रेल डिब्बा कारखाना, कपूरथला

Rail Coach Factory , Kapurthala

Page 2 of 3

|      |  |   |           |           |           |                   |           |                   |               |  |  |
|------|--|---|-----------|-----------|-----------|-------------------|-----------|-------------------|---------------|--|--|
| 11.  | Bogie Details:   | Shell No.                               | Railway   |           | Type      |                   | Coach No. |                   | Dispatch Date |  |  |
|      |  | 5031                                    | NR        |           | MEMU/TC   |                   | 31343     |                   | 23-11-2015    |  |  |
| 11.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' |   |           |           |           |                   |           |                   |               |  |  |
| 11.2 | Wheel & Axle Details:                                  | PP Side                                 |           |           |           | NPP Side          |           |                   |               |  |  |
|      | i. Bogie No.   | 155061                                  |           |           |           | 155063            |           |                   |               |  |  |
|      | ii. Frame No.  | ASR-205                                 |           |           |           | ASR-212           |           |                   |               |  |  |
|      | iii. Axle No.  | A-4245                                  |           | A-3772    |           | P-9751            |           | A-5461            |               |  |  |
|      | iv. Wheel Diameter                                     | 953.00                                  | 953.00    | 954.00    | 954.00    | 954.00            | 954.00    | 954.00            | 954.00        |  |  |
|      | v. Wheel Disc No.                                      | 10336/929                               | 07031/957 | 06677/969 | 08126/928 | 06946/945         | 09028/940 | 06319/944         | 07304/935     |  |  |
|      | vi. R.B. Nos.  | V-2128                                  | V-2371    | V1401     | V1381     | H0816             | H0852     | H0839             | H0823         |  |  |
|      | vii. R.B. Make   | FAG                                     |           | FAG       |           | NBC               |           | NBC               |               |  |  |
|      | viii. R.B. Type  | Direct Mounted Spherical Roller Bearing |           |           |           |                   |           |                   |               |  |  |
| 11.3 | <u>Items Traceability:</u>                             |   |           |           | PP SIDE   |                   | NPP SIDE  |                   |               |  |  |
|      | i.   | BRAKE CYLINDER Make & NO.               |           |           |           | PEW-3151,3104     |           | PEW-E2674,F3070   |               |  |  |
|      | ii.  | SECONDARY Shock Absorber Make &NO.      |           |           |           | ESCORTS-8690,8660 |           | ESCORTS-8974,8613 |               |  |  |
| 11.4 | i.   | Modification/ Trail (if any):           |           |           |           | NIL               |           |                   |               |  |  |
|      | ii.  | Deviations (if any):                    |           |           |           | NIL               |           |                   |               |  |  |

MEMU/TC2—5031