



ROLLING STOCK CERTIFICATE

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

| | | | | | | |
|-----|-----------------------------------|---|---------------------------------------|----------------------------|--|--------------|
| 1. | SHELL No: | 6029 | DISPATCH DATE: | | | 11.04.17 |
| 2. | Rly: | WCR | Type: | MEMU/MC | Coach No.: | 40005 |
| 3. | Booked to | SSE/C&W/JBP | | | | |
| 4. | Tare Weight of Coach : | 61 T | | | | |
| 5. | Carrying Capacity : | Seating: | 65 | Standing | 138 | 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) 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 (AE63143) mm | |
| | vii) | Buffer/CBC Height | Specified : 1104 +0 /-10 mm | | i) 1104 | ii) 1104 |
| | vii) | Make : | JLS | | | |
| | ix) | Shaku Coupler Height | Specified : 1035 +0 /-5 mm | | 1035 | |
| | x) | Shaku Coupler Make: | ESCORTS | | | |
| 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) 3 to 5 Sec (for Non BMBC type) | |
| | | | Brake release time to reach .4 Kg/cm2 | | Less than 20 Sec (for BMBC type) 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 | | | KBI | |
| | ii. | SEAT & BERTH | | | OVPL | |
| | lii | PVC | | | RESPONSIVE | |
| | lv | FLOOR BOARD | | | TWPL | |
| | v | UIC VESTIBULE | | | KRP | |
| | Viv | LP SHEETS | | | PUNJAB LAMINATE | |
| | Vii | BODY SIDE WINDOW | | | ABC+CI | |
| | Viii | EMERGENCY WINDOW | | | ABC | |
| | xi | DOOR WINDOW | | | GI | |
| 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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|------|--|------------------------------------|---|-----------------|-----------------|--------------------------------|-----------------|-----------------|--------------------------------|-----------------|--|
| 11. | Bogie Details: | Shell No. | Railway | | Type | | Coach No. | | Dispatch Date | | |
| | | 6029 | WC | | MEMU/DMC | | 40005 | | 29-03-2017 | | |
| 11.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' | | | | | | | | | | |
| 11.2 | Wheel & Axle Details: | | PP Side | | | | NPP Side | | | | |
| | i. | Bogie No. | 175029 | | | | 175030 | | | | |
| | ii. | Frame No. | ACPL-59 | | | | ACPL-57 | | | | |
| | iii. | Axle No. | L-9961 | | K-1825 | | L-9908 | | L-9890 | | |
| | iv. | Wheel Diameter | 955.00 | 955.00 | 955.00 | 954.50 | 955.00 | 955.00 | 955.00 | 955.00 | |
| | v. | Wheel Disc No. | 47515/0 0978 | 47475/0 0978 | 02735/1 2987 | 57412/1 2038 | 15594/1 4443 | 11900/1 4980 | 14980/1 1877 | 01898/127 51 | |
| | vi. | R.B. Nos. | X0165 | X0742 | X0749 | X0737 | X0741 | X0724 | X0652 | X0648 | |
| | 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. | | | | AJTECH- 1058,1085,1144,1048 | | | AJTECH- 1060,1092,1041,1153 | | |
| | ii. | SECONDARY Shock Absorber Make &NO. | | | | K/B-3167,3169 | | | K/B-8520,8529 | | |
| 11.4 | i. | Modification/ Trail (if any): | | | | NIL | | | | | |
| | ii. | Deviations (if any): | | | | NIL | | | | | |



ROLLING STOCK CERTIFICATE

Form No. : QMF4254; Version: 05

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|------|--|---|-----------------------------|--|--|--------------|
| 1. | SHELL No: | 6030 | DISPATCH DATE: | | | 11.04.17 |
| 2. | Rly: | WCR | Type: | MEMU/MC | Coach No.: | 40009 |
| 3. | Booked to | SSE/C&W/JBP | | | | |
| 4. | Tare Weight of Coach : | 61 T | | | | |
| 5. | Carrying Capacity : | Seating: | 65 | Standing | 138 | 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) 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 (AE63143) mm | |
| | vii) | Buffer/CBC Height | Specified : 1104 +0 /-10 mm | | i) 1104 | ii) 1104 |
| | vii) | Make : | JLS | | | |
| | ix) | Shaku Coupler Height | Specified : 1035 +0 /-5 mm | | 1035 | |
| | x) | Shaku Coupler Make: | ESCORTS | | | |
| 7. | Air Brake Testing: | | | | | |
| | Description | | | Specified | | |
| 7.1 | Emergency Application | Time for 0 to 3.6 Kg/cm ² of BC | | Less than 05 Sec (for BMBC type) 3 to 5 Sec (for Non BMBC type) | | |
| | | Brake release time to reach .4 Kg/cm ² | | Less than 20 Sec (for BMBC type) 15 to 20 Sec (for Non BMBC type) | | |
| 7.2 | Insensitivity | BP dipped @ 0.30 Kg/cm ² n 60 sec | | No brake application | | |
| 7.3 | Sensitivity | BP dipped @ 0.60 Kg/cm ² 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 | | | ESCORT | | |
| ii. | SEAT & BERTH | | | OVPL | | |
| lii | PVC | | | RESPONSIVE | | |
| Iv | FLOOR BOARD | | | TWPL | | |
| V | UIC VESTIBULE | | | KRP | | |
| Viv | LP SHEETS | | | PUNJAB LAMINATE | | |
| Vii | BODY SIDE WINDOW | | | AGF | | |
| Viii | EMERGENCY WINDOW | | | ABC | | |
| xi | DOOR WINDOW | | | ABC | | |
| 10. | 10.1 | Modification/ Trial (if any): | | | NIL | |
| | 10.2 | Deviations (if any): | | | NIL | |



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| 11. | Bogie Details: | Shell No. | | Railway | | Type | | Coach No. | | Dispatch Date | |
| | | 6030 | | WC | | MEMU/DMC | | 40009 | | 30-03-2017 | |
| 11.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' | | | | | | | | | | |
| 11.2 | Wheel & Axle Details: | | PP Side | | | | NPP Side | | | | |
| | i. | Bogie No. | 175031 | | | | 175033 | | | | |
| | ii. | Frame No. | ACPL-56 | | | | CRG-13 | | | | |
| | iii. | Axle No. | M-0551 | | L-9921 | | M-0011 | | L-9927 | | |
| | iv. | Wheel Diameter | 953.00 | 953.00 | 954.00 | 954.00 | 953.00 | 953.00 | 955.00 | 954.50 | |
| | v. | Wheel Disc No. | 15097/ 11816 | 02347/ 12860 | 16949/ 20639 | 00147/ 21089 | 02164/ 12816 | 02154/ 12816 | 14933/ 11497 | 1534312 279 | |
| | vi. | R.B. Nos. | X0650 | X0643 | X0631 | X0618 | X0702 | X0646 | X0716 | X0663 | |
| | 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. | | | | AJTECH- 1049,1150,1064,1180 | | | AJTECH- 1116,1089,1163,1088 | | |
| | ii. | SECONDARY Shock Absorber Make &NO. | | | | K/B-8524,8540 | | | K/B-8513,8522 | | |
| 11.4 | i. | Modification/ Trail (if any): | | | | NIL | | | | | |
| | ii. | Deviations (if any): | | | | NIL | | | | | |



ROLLING STOCK CERTIFICATE

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

| | | | | | | |
|-----|-----------------------------------|---|---------------------------------------|----------------------------|--|--------------|
| 1. | SHELL No: | 6032 | DISPATCH DATE: | | | 20.04.17 |
| 2. | Rly: | WCR | Type: | MEMU/MC | Coach No.: | 40013 |
| 3. | Booked to | SSE/C&W/JBP | | | | |
| 4. | Tare Weight of Coach : | 61 T | | | | |
| 5. | Carrying Capacity : | Seating: | 65 | Standing | 138 | 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) 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 (AE63143) mm | |
| | vii) | Buffer/CBC Height | Specified : 1104 +0 /-10 mm | | i) 1104 | ii) 1104 |
| | vii) | Make : | JLS | | | |
| | ix) | Shaku Coupler Height | Specified : 1035 +0 /-5 mm | | 1035 | |
| | x) | Shaku Coupler Make: | ESCORTS | | | |
| 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) 3 to 5 Sec (for Non BMBC type) | |
| | | | Brake release time to reach .4 Kg/cm2 | | Less than 20 Sec (for BMBC type) 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: | | | | Make | |
| | i. | BRAKE EQUIPMENT | | KBI | | |
| | ii. | SEAT & BERTH | | OVPL | | |
| | lii | PVC | | RESPONSIVE | | |
| | Iv | FLOOR BOARD | | TWPL | | |
| | V | UIC VESTIBULE | | KRP | | |
| | Viv | LP SHEETS | | PUNJAB LAMINATE | | |
| | Vii | BODY SIDE WINDOW | | AGF | | |
| | Viii | EMERGENCY WINDOW | | ABC | | |
| | xi | DOOR WINDOW | | GI | | |
| 10. | 10.1 | Modification/ Trial (if any): | | NIL | | |
| | 10.2 | Deviations (if any): | | NIL | | |



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| 11. | Bogie Details: | Shell No. | | Railway | | Type | | Coach No. | | Dispatch Date | |
| | | 6032 | | WC | | MEMU/DMC | | 40013 | | 31-03-2017 | |
| 11.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' | | | | | | | | | | |
| 11.2 | Wheel & Axle Details: | | PP Side | | | | NPP Side | | | | |
| | i. | Bogie No. | 175035 | | | | 175036 | | | | |
| | ii. | Frame No. | ACPL-61 | | | | ACPL-55 | | | | |
| | iii. | Axle No. | K-1771 | | L-9922 | | L-9940 | | S-2673 | | |
| | iv. | Wheel Diameter | 954.00 | 954.00 | 953.00 | 953.00 | 955.00 | 954.50 | 955.00 | 955.00 | |
| | v. | Wheel Disc No. | 12084/69913 | 12084/69927 | 12212/69689 | 12084/69938 | 58067/08985 | 22190/12816 | 58092/08985 | 13107/15452 | |
| | vi. | R.B. Nos. | X0723 | X0171 | X0729 | X0175 | X0658 | X0660 | X0747 | X0708 | |
| | 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. | | | | PEW-5268,E5228, 5331,E12257 | | | PEW-15129,15026 12260,E5208 | | |
| | ii. | SECONDARY Shock Absorber Make &NO. | | | | ESCORTS-3171,3158 | | | ESCORTS-3146,3179 | | |
| 11.4 | i. | Modification/ Trail (if any): | | | | NIL | | | | | |
| | ii. | Deviations (if any): | | | | NIL | | | | | |

MEMU/DMC-6032



ROLLING STOCK CERTIFICATE

Form No. : QMF4254; Version: 05

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|-------|---|---------------------------------------|----------------------------|--|--|--------------|
| 1. | SHELL No: | 6031 | DISPATCH DATE: | | | 20.04.17 |
| 2. | Rly: | WCR | Type: | MEMU/MC | Coach No.: | 40017 |
| 3. | Booked to | SSE/C&W/JBP | | | | |
| 4. | Tare Weight of Coach : | 61 T | | | | |
| 5. | Carrying Capacity : | Seating: | 65 | Standing | 138 | 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) 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 (AE63143) mm | |
| vii) | Buffer/CBC Height | Specified : 1104 +0 /-10 mm | | i) 1104 | ii) 1102 | |
| vii) | Make : | | | | | JLS |
| ix) | Shaku Coupler Height | Specified : 1035 +0 /-5 mm | | 1035 | | |
| x) | Shaku Coupler Make: | | | | | ESCORTS |
| 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) 3 to 5 Sec (for Non BMBC type) | | |
| | | Brake release time to reach .4 Kg/cm2 | | Less than 20 Sec (for BMBC type) 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: | | | | Make | |
| i. | BRAKE EQUIPMENT | | | | KBI | |
| ii. | SEAT & BERTH | | | | OVPL | |
| iii. | PVC | | | | RESPONSIVE | |
| iv. | FLOOR BOARD | | | | TWPL | |
| v. | UIC VESTIBULE | | | | KRP | |
| vi. | LP SHEETS | | | | PUNJAB LAMINATE | |
| vii. | BODY SIDE WINDOW | | | | ABC | |
| viii. | EMERGENCY WINDOW | | | | ABC | |
| ix. | DOOR WINDOW | | | | GI | |
| 10. | 10.1 | Modification/ Trial (if any): | | | NIL | |
| | 10.2 | Deviations (if any): | | | NIL | |



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|------|--|------------------------------------|---|-----------------|-----------------|--------------------------------|-----------------|--------------------------------|-----------------|-----------------|
| 11. | Bogie Details: | Shell No. | Railway | Type | Coach No. | Dispatch Date | | | | |
| | | 6031 | WC | MEMU/DMC | 40017 | 30-03-2017 | | | | |
| 11.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' | | | | | | | | | |
| 11.2 | Wheel & Axle Details: | PP Side | | | | NPP Side | | | | |
| | i. | Bogie No. | 175034 | | | | 175032 | | | |
| | ii. | Frame No. | ACPL-63 | | | | ACPL-60 | | | |
| | iii. | Axle No. | S-2743 | | K-1808 | | L-9938 | | M-0006 | |
| | iv. | Wheel Diameter | 955.00 | 955.00 | 955.00 | 955.00 | 955.00 | 954.50 | 955.00 | 955.00 |
| | v. | Wheel Disc No. | 13106/ 15452 | 13079/ 15452 | 13055/ 15452 | 13078/ 15452 | 57415/ 12038 | 02171/ 12816 | 57421/ 17038 | 57132/12 038 |
| | vi. | R.B. Nos. | X0654 | X0664 | X0703 | X0706 | X0745 | X0774 | X0719 | X0111 |
| | 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. | | | | AJTECH- 1099,1154,1073,1081 | | AJTECH- 1033,1141,1162,1011 | | |
| | ii. | SECONDARY Shock Absorber Make &NO. | | | | ESCORTS-3186,3170 | | K/B-8534,8526 | | |
| 11.4 | i. | Modification/ Trail (if any): | | | | NIL | | | | |
| | ii. | Deviations (if any): | | | | NIL | | | | |