



ROLLING STOCK CERTIFICATE

Form No. :

QMF4254;
Version: 05

| | | | | | | |
|-------|---|--|--|---------------------|-------------------|---------------|
| 1. | SHELL No: | 4588 | DISPATCH DATE: | | 28.03.2015 | |
| 2. | RAILWAY | NR | Type: | GS | Coach No.: | 153403 |
| 3. | Booked to | SSE/C&W/DLI | | | | |
| 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) 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 | 1104/1103 | | |
| viii) | Buffer/CBC (Make) | ATUL | | | | |
| ix) | Draw Gear (Make) | RK | | | | |
| 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 | VIBGYOR | 85/86 | | |
| 8.2 | APPLICATION OF PCN-123 | SATISFACTORY | | | | |
| 8.3 | INSUALTION | SATISFACTORY | | | | |
| 9. | Traceability of Furnishing Items: | | | | | |
| i. | BRAKE EQUIPMENT | Make ESCORT | | | | |
| ii. | SEAT & BERTH | OVPL | | | | |
| iii. | WATER TANKS | AMIT | | | | |
| iv. | PVC | RESPONSIVE | | | | |
| v. | FLOOR BOARD | TAYAL | | | | |
| vi. | WINDOWS | ABC, AGF, MECIDON | | | | |
| vii. | LAV. DOORS | DHINJAN | | | | |
| viii. | LP SHEET | NA | | | | |
| 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 | | | |
| | | 4588 | NR | | GS | 153403 | 20-03-2015 | | | |
| 12.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' | | | | | | | | | |
| 12.2 | Wheel & Axle Details: | PP Side | | | | NPP Side | | | | |
| | i. | Bogie No. | 150301 | | | | 150300 | | | |
| | ii. | Frame No. | ASR-1071 | | | | ASR-1049 | | | |
| | iii. | Axle No. | 3911 | | 10159 | | Y-6850 | | K-9873 | |
| | iv. | Wheel Diameter | 916.00 | 916.00 | 918.00 | 918.00 | 916.00 | 916.00 | 916.00 | 916.00 |
| | v. | Wheel Disc No. | 08980/ 13204 | 62800/ 08675 | 09364/ 13353 | 06129/ 13471 | 05670/ 13736 | 09336/ 13353 | 09400/ 13353 | 09460/13 353 |
| | vi. | R.B. Nos. | A0971 | A0749 | A1123 | A1012 | A1569 | A0748 | A1486 | A1499 |
| | vii. | R.B. Make | NBC | | NBC | | NBC | | NBC | |
| | viii. | R.B. Type | Direct Mounted Spherical Roller Bearing | | | | | | | |
| 12.3 | <u>Items Traceability:</u> | | | | | | | | | |
| | i. | BRAKE CYLINDER (Make) | | | | PEW | | | | |
| | ii. | SECONDARY Shock Absorber (Make) | | | | KNORR BREMSE | | | | |
| 12.4 | i. | Modification/ Trail (if any): | | | | NIL | | | | |
| | ii. | Deviations (if any): | | | | NIL | | | | |

GS-4588



ROLLING STOCK CERTIFICATE

Form No. :

QMF4254;
Version: 05

| | | | | | | | |
|-------|---|--|--|---------------------|-------------------|---------------|------------|
| 1. | SHELL No: | 4587 | DISPATCH DATE: | | 28.03.2015 | | |
| 2. | RAILWAY | NR | Type: | GS | Coach No.: | 153405 | |
| 3. | Booked to | SSE/C&W/DLI | | | | | |
| 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) 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) | | | | ATUL | | |
| ix) | Draw Gear (Make) | | | | RK | | |
| 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: | | | | | | |
| i. | BRAKE EQUIPMENT | Make ESCORT | | | | | |
| ii. | SEAT & BERTH | ADVANCE SILICON FOAMS | | | | | |
| iii. | WATER TANKS | AMIT, RAIL FAB | | | | | |
| iv. | PVC | RESPONSIVE | | | | | |
| v. | FLOOR BOARD | TAYAL | | | | | |
| vi. | WINDOWS | ABC, AGF, MECIDON | | | | | |
| vii. | LAV. DOORS | DHINJAN | | | | | |
| viii. | LP SHEET | NA | | | | | |
| 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 | | | | |
| | | 4587 | NR | GS | 153405 | 21-03-2015 | | | | |
| 12.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' | | | | | | | | | |
| 12.2 | Wheel & Axle Details: | PP Side | | | | NPP Side | | | | |
| | i. | Bogie No. | 150304 | | | | 150305 | | | |
| | ii. | Frame No. | ASR-1051 | | | | ASR-1030 | | | |
| | iii. | Axle No. | 10307 | | Y-7271 | | L-0173 | | A-3717 | |
| | iv. | Wheel Diameter | 915.50 | 915.00 | 917.00 | 917.00 | 916.00 | 916.50 | 915.50 | 916.00 |
| | v. | Wheel Disc No. | 09001/ 13204 | 06101/ 13471 | 60700/ 08510 | 06461/ 13600 | 09425/ 13353 | 62797/ 08675 | 08952/ 13204 | 08889/13 204 |
| | vi. | R.B. Nos. | A1492 | A0720 | A1279 | A1268 | A1200 | A1385 | J2110 | J2143 |
| | vii. | R.B. Make | NBC | | NBC | | NBC | | NBC | |
| | viii. | R.B. Type | Direct Mounted Spherical Roller Bearing | | | | | | | |
| 12.3 | Items Traceability: | | | | | | | | | |
| | i. | BRAKE CYLINDER (Make) | | | | PEW | | | | |
| | ii. | SECONDARY Shock Absorber (Make) | | | | KNORR BREMSE | | | | |
| 12.4 | i. | Modification/ Trail (if any): | | | | NIL | | | | |
| | ii. | Deviations (if any): | | | | NIL | | | | |

GS-4587



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. :

QMF4254;
Version: 05

| | | | | | | |
|-------|---|---|--|--|---------------------|---------------------|
| 1. | SHELL No: | 4582 | DISPATCH DATE: | | | 28.03.2015 |
| 2. | RAILWAY | NR | Type: | GS | Coach No.: | 153407 |
| 3. | Booked to | SSE/C&W/MB | | | | |
| 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) 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) | | RK | | | |
| 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 | | VIBGYOR | 85/85 | |
| 8.2 | APPLICATION OF PCN-123 | | SATISFACTORY | | | |
| 8.3 | INSUALTION | | SATISFACTORY | | | |
| 9. | Traceability of Furnishing Items: | | | Make | | |
| i. | BRAKE EQUIPMENT | | | FAIVELEY | | |
| ii. | SEAT & BERTH | | | OVPL | | |
| iii. | WATER TANKS | | | AMIT, RAIL FAB | | |
| iv. | PVC | | | RESPONSIVE | | |
| v. | FLOOR BOARD | | | TAYAL | | |
| vi. | WINDOWS | | | ABC, AGF, MECIDON | | |
| vii. | LAV. DOORS | | | DHINJAN | | |
| viii. | LP SHEET | | | NA | | |
| ix) | BIO- TOILET | | | M K PRECISION | | |
| 10. | 10.1 | Modification/ Trial (if any): | | | NIL | |



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 2 of 3

| 12. | Bogie Details: | Shell No. | Railway | Type | Coach No. | Dispatch Date | | | |
|------|--|---|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | | 4582 | NR | GS | 153407 | 21-03-2015 | | | |
| 12.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' | | | | | | | | |
| 12.2 | Wheel & Axle Details: | PP Side | | | | NPP Side | | | |
| | i. Bogie No. | 150312 | | | | 150311 | | | |
| | ii. Frame No. | ASR-1068 | | | | ASR-1027 | | | |
| | iii. Axle No. | 3991 | | A-5753 | | P-1915 | | A-5303 | |
| | iv. Wheel Diameter | 917.00 | 917.00 | 917.00 | 917.00 | 917.00 | 917.00 | 918.00 | 917.50 |
| | v. Wheel Disc No. | 11500/ 15420 | 11379/ 15420 | 11485/ 15420 | 09229/ 13338 | 09922/ 13966 | 05986/ 13448 | 09321/ 13353 | 09327/13 353 |
| | vi. R.B. Nos. | A1562 | A1522 | A0224 | A0265 | A0262 | A0300 | A0257 | A0266 |
| | vii. R.B. Make | NBC | | NBC | | NBC | | NBC | |
| | viii. R.B. Type | Direct Mounted Spherical Roller Bearing | | | | | | | |
| 12.3 | <u>Items Traceability:</u> | | | | | | | | |
| | i. | BRAKE CYLINDER (Make) | | | | PEW | | | |
| | ii. | SECONDARY Shock Absorber (Make) | | | | KNORR BREMSE | | | |
| 12.4 | i. | Modification/ Trail (if any): | | | | NIL | | | |
| | ii. | Deviations (if any): | | | | NIL | | | |

GS-4582



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. :

QMF4254;
Version: 05

| | | | | | | |
|-------|---|---|--|--|---------------------|---------------------|
| 1. | SHELL No: | 4581 | DISPATCH DATE: | | | 30.03.2015 |
| 2. | RAILWAY | NR | Type: | GS | Coach No.: | 153406 |
| 3. | Booked to | SSE/C&W/MB | | | | |
| 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) 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) | | ATUL | | | |
| ix) | Draw Gear (Make) | | RK | | | |
| 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 | | VIBGYOR | 85/85 | |
| 8.2 | APPLICATION OF PCN-123 | | SATISFACTORY | | | |
| 8.3 | INSUALTION | | SATISFACTORY | | | |
| 9. | Traceability of Furnishing Items: | | | | | |
| i. | BRAKE EQUIPMENT | | Make FAIVELEY | | | |
| ii. | SEAT & BERTH | | OVPL | | | |
| iii. | WATER TANKS | | AMIT, RAIL FAB | | | |
| iv. | PVC | | RESPONSIVE | | | |
| v. | FLOOR BOARD | | TAYAL | | | |
| vi. | WINDOWS | | ABC, AGF, MECIDON | | | |
| vii. | LAV. DOORS | | DHINJAN | | | |
| viii. | LP SHEET | | NA | | | |
| ix) | BIO- TOILET | | M K PRECISION | | | |
| 10. | 10.1 | Modification/ Trial (if any): | | | NIL | |



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 2 of 3

| | | | | | | | | | | | |
|------|---|--|---|-----------------|-----------------|-----------------|-----------------|------------------|-----------------|----------------------|--|
| 12. | Bogie Details: | Shell No. | | Railway | | Type | | Coach No. | | Dispatch Date | |
| | | 4581 | | NR | | GS | | 153406 | | 20-03-2015 | |
| 12.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' | | | | | | | | | | |
| 12.2 | Wheel & Axle Details: | PP Side | | | | | NPP Side | | | | |
| | i. | Bogie No. | 150306 | | | | | 150307 | | | |
| | ii. | Frame No. | ASR-998 | | | | | ASR-1056 | | | |
| | iii. | Axle No. | A-5953 | | 10324 | | 10115 | | A4720 | | |
| | iv. | Wheel Diameter | 918.00 | 918.00 | 916.00 | 915.50 | 916.00 | 916.00 | 918.00 | 917.50 | |
| | v. | Wheel Disc No. | 06102/ 13471 | 09409/ 13353 | 08910/ 13204 | 08985/ 13204 | 05127/ 13830 | 02582/ 12813 | 06148/ 13471 | 05983/13 448 | |
| | vi. | R.B. Nos. | A1227 | A0996 | J2116 | J2130 | J2131 | A0945 | A0252 | A0226 | |
| | vii. | R.B. Make | NBC | | NBC | | NBC | | NBC | | |
| | viii | R.B. Type | Direct Mounted Spherical Roller Bearing | | | | | | | | |
| 12.3 | Items Traceability: | | | | | | | | | | |
| | i. | BRAKE CYLINDER (Make) | | | | | PEW | | | | |
| | ii. | SECONDARY Shock Absorber (Make) | | | | | KNORR BREMSE | | | | |
| 12.4 | i. | Modification/ Trail (if any): | | | | | NIL | | | | |
| | ii. | Deviations (if any): | | | | | NIL | | | | |

GS-4581



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. :

QMF4254;
Version: 05

| | | | | | | |
|-------|---|---------------------------------------|--|--|---------------------|---------------------|
| 1. | SHELL No: | 4586 | DISPATCH DATE: | | | 27.03.2015 |
| 2. | RAILWAY | NR | Type: | GS | Coach No.: | 153404 |
| 3. | Booked to | SSE/C&W/DLI | | | | |
| 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) 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) | | ATUL,JLS | | | |
| ix) | Draw Gear (Make) | | RK | | | |
| 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 | | ESCORTS | | | |
| ii. | SEAT & BERTH | | ADVANCE SILICON | | | |
| iii. | WATER TANKS | | AMIT | | | |
| iv. | PVC | | RESPONSIVE | | | |
| v. | FLOOR BOARD | | TAYAL | | | |
| vi. | WINDOWS | | ABC, AGF, MECIDON | | | |
| vii. | LAV. DOORS | | DHINJAN | | | |
| viii. | LP SHEET | | NA | | | |
| ix) | BIO- TOILET | | M K PRECISION | | | |
| 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

| | | | | | | | | | | |
|------|--|---|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--|
| 12. | Bogie Details: | Shell No. | Railway | | Type | | Coach No. | | Dispatch Date | |
| | | 4586 | NR | | GS | | 153404 | | 23-03-2015 | |
| 12.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' | | | | | | | | | |
| 12.2 | Wheel & Axle Details: | PP Side | | | | | NPP Side | | | |
| | i. Bogie No. | 150319 | | | | | 150318 | | | |
| | ii. Frame No. | ASR-1079 | | | | | ASR-1020 | | | |
| | iii. Axle No. | A-3629 | | A-3702 | | A-4031 | | A-4123 | | |
| | iv. Wheel Diameter | 916.00 | 916.00 | 915.00 | 915.00 | 918.00 | 917.50 | 917.50 | 917.00 | |
| | v. Wheel Disc No. | 05114/ 13830 | 50146/ 13830 | 08934/ 13204 | 06071/ 13471 | 06725/ 08675 | 05057/ 13830 | 05726/ 13736 | 05659/13 736 | |
| | vi. R.B. Nos. | A1063 | A1146 | J2111 | M2891 | A1043 | A0431 | A0967 | A0877 | |
| | vii. R.B. Make | NBC | | NBC | | NBC | | NBC | | |
| | viii. R.B. Type | Direct Mounted Spherical Roller Bearing | | | | | | | | |
| 12.3 | Items Traceability: | | | | | | | | | |
| | i. | BRAKE CYLINDER (Make) | | | | | PEW | | | |
| | ii. | SECONDARY Shock Absorber (Make) | | | | | KNORR BREMSE | | | |
| 12.4 | i. | Modification/ Trail (if any): | | | | | NIL | | | |
| | ii. | Deviations (if any): | | | | | NIL | | | |

GS-4586



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. :

QMF4254;
Version: 05

| | | | | | | | |
|-------|---|---|--|---------------------|------------|----------|-----|
| 1. | SHELL No: | 4589 | DISPATCH DATE: | | 31.03.2015 | | |
| 2. | RAILWAY | NR | Type: | GS | Coach No.: | 153409 | |
| 3. | Booked to | SSE/C&W/MB | | | | | |
| 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) 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) | | JLS | | | | |
| ix) | Draw Gear (Make) | | RK | | | | |
| 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 | VIBGYOR | 85/85 | | | |
| 8.2 | APPLICATION OF PCN-123 | | SATISFACTORY | | | | |
| 8.3 | INSUALTION | | SATISFACTORY | | | | |
| 9. | Traceability of Furnishing Items: | | | | | | |
| i. | BRAKE EQUIPMENT | | Make FAIVELEY | | | | |
| ii. | SEAT & BERTH | | OVPL | | | | |
| iii. | WATER TANKS | | AMIT, RAIL FAB | | | | |
| iv. | PVC | | RESPONSIVE | | | | |
| v. | FLOOR BOARD | | TAYAL | | | | |
| vi. | WINDOWS | | ABC, AGF, MECIDON | | | | |
| vii. | LAV. DOORS | | DHINJAN | | | | |
| viii. | LP SHEET | | NA | | | | |
| ix) | BIO- TOILET | | M K PRECISION | | | | |
| 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

| | | | | | | | | | | | |
|------|--|---|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|---------------|--|
| 12. | Bogie Details: | Shell No. | | Railway | | Type | | Coach No. | | Dispatch Date | |
| | | 4589 | | NR | | GS | | 153409 | | 21-03-2015 | |
| 12.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' | | | | | | | | | | |
| 12.2 | Wheel & Axle Details: | PP Side | | | | | NPP Side | | | | |
| | i. Bogie No. | 150313 | | | | | 150310 | | | | |
| | ii. Frame No. | ASR-795 | | | | | ASR-1058 | | | | |
| | iii. Axle No. | U-4530 | | A-5000 | | | S-1544 | | A-3957 | | |
| | iv. Wheel Diameter | 916.00 | 916.00 | 916.00 | 916.50 | 917.00 | 917.00 | 917.00 | 917.00 | | |
| | v. Wheel Disc No. | 05998/ 13448 | 06119/ 13471 | 05130/ 13830 | 06440/ 13600 | 05989/ 13448 | 06028/ 13448 | 11352/ 13399 | 09211/13 338 | | |
| | vi. R.B. Nos. | A1393 | A1532 | A0261 | A0230 | A1564 | A0871 | A0732 | A0972 | | |
| | vii. R.B. Make | NBC | | NBC | | | NBC | | NBC | | |
| | viii. R.B. Type | Direct Mounted Spherical Roller Bearing | | | | | | | | | |
| 12.3 | Items Traceability: | | | | | | | | | | |
| | i. | BRAKE CYLINDER (Make) | | | | | PEW | | | | |
| | ii. | SECONDARY Shock Absorber (Make) | | | | | KNORR BREMSE | | | | |
| 12.4 | i. | Modification/ Trail (if any): | | | | | NIL | | | | |
| | ii. | Deviations (if any): | | | | | NIL | | | | |

GS-4589



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. :

QMF4254;
Version: 05

| | | | | | | | |
|-------|---|---|----------------------------|--|---------------------|------------|-----|
| 1. | SHELL No: | 4599 | DISPATCH DATE: | | | 31.03.2015 | |
| 2. | RAILWAY | NR | Type: | GS | Coach No.: | 153412 | |
| 3. | Booked to | SSE/C&W/FZR | | | | | |
| 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) 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) | | | ATUL | | | |
| ix) | Draw Gear (Make) | | | RK | | | |
| 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 | | 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 | | | ABC, AGF, MECIDON | | | |
| vii. | LAV. DOORS | | | DHINJAN | | | |
| viii. | LP SHEET | | | NA | | | |
| ix) | BIO- TOILET | | | M K PRECISION | | | |
| 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

| | | | | | | | | | | | |
|------|---|--|---|-----------------|-----------------|-----------------|-----------------|------------------|-----------------|----------------------|--|
| 12. | Bogie Details: | Shell No. | | Railway | | Type | | Coach No. | | Dispatch Date | |
| | | 4599 | | NR | | GS | | 153412 | | 25-03-2015 | |
| 12.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' | | | | | | | | | | |
| 12.2 | Wheel & Axle Details: | | PP Side | | | | NPP Side | | | | |
| | i. | Bogie No. | 150324 | | | | 150325 | | | | |
| | ii. | Frame No. | ASR-14 | | | | ASR-06 | | | | |
| | iii. | Axle No. | 10306 | | A-4841 | | A-4402 | | 10144 | | |
| | iv. | Wheel Diameter | 916.00 | 916.00 | 917.50 | 917.00 | 918.00 | 918.00 | 916.00 | 915.50 | |
| | v. | Wheel Disc No. | 06142/ 13471 | 09017/ 13204 | 09401/ 13353 | 09894/ 13966 | 05715/ 13736 | 05759/ 13736 | 06093/ 13471 | 09321/13 353 | |
| | vi. | R.B. Nos. | A-0428 | A-0413 | A-0912 | A-1355 | A-1213 | A-1313 | A-1400 | A-1361 | |
| | vii. | R.B. Make | NBC | | NBC | | NBC | | NBC | | |
| | viii. | R.B. Type | Direct Mounted Spherical Roller Bearing | | | | | | | | |
| 12.3 | Items Traceability: | | | | | | | | | | |
| | i. | BRAKE CYLINDER (Make) | | | | | PEW | | | | |
| | ii. | SECONDARY Shock Absorber (Make) | | | | | KNORR BREMSE | | | | |
| 12.4 | i. | Modification/ Trail (if any): | | | | | NIL | | | | |
| | ii. | Deviations (if any): | | | | | NIL | | | | |

GS-4599



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. :

QMF4254;
Version: 05

| | | | | | | |
|-------|---|---|--|--|------------|---------------------|
| 1. | SHELL No: | 4579 | DISPATCH DATE: | | | 31.03.2015 |
| 2. | RAILWAY | NR | Type: | GS | Coach No.: | 153401 |
| 3. | Booked to | SSE/C&W/DLI | | | | |
| 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) 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 | 1100/1104 | 1104/1104 | | |
| viii) | Buffer/CBC (Make) | | ATUL | | | |
| ix) | Draw Gear (Make) | | RK | | | |
| 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 | 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, RAIL FAB | | | |
| iv. | PVC | | RESPONSIVE | | | |
| v. | FLOOR BOARD | | TAYAL | | | |
| vi. | WINDOWS | | ABC, AGF, MECIDON | | | |
| vii. | LAV. DOORS | | DHINJAN | | | |
| viii. | LP SHEET | | NA | | | |
| ix) | BIO- TOILET | | M K PRECISION | | | |
| 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

| 12. | Bogie Details: | Shell No. | | Railway | | Type | | Coach No. | | Dispatch Date | |
|------|--|---|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|---------------|--|
| | | 4579 | | NR | | GS | | 153401 | | 02-03-2015 | |
| 12.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' | | | | | | | | | | |
| 12.2 | Wheel & Axle Details: | PP Side | | | | | NPP Side | | | | |
| | i. Bogie No. | 150287 | | | | | 150280 | | | | |
| | ii. Frame No. | ASR-1013 | | | | | ASR-999 | | | | |
| | iii. Axle No. | 10198 | | Y-7795 | | 8718 | | 10411 | | | |
| | iv. Wheel Diameter | 915.00 | 915.00 | 917.00 | 917.00 | 915.00 | 915.00 | 915.00 | 915.00 | | |
| | v. Wheel Disc No. | 05244/ 14068 | 06080/ 13471 | 06053/ 13471 | 08982/ 13204 | 08998/ 13204 | 00704/ 13204 | 06145/ 13471 | 06104/13 471 | | |
| | vi. R.B. Nos. | M3135 | M3152 | A1273 | A1104 | A0715 | A1550 | A0885 | A1363 | | |
| | vii. R.B. Make | NBC | | NBC | | NBC | | NBC | | | |
| | viii. R.B. Type | Direct Mounted Spherical Roller Bearing | | | | | | | | | |
| 12.3 | <u>Items Traceability:</u> | | | | | | | | | | |
| | i. | BRAKE CYLINDER (Make) | | | | | PEW | | | | |
| | ii. | SECONDARY Shock Absorber (Make) | | | | | KNORR BREMSE | | | | |
| 12.4 | i. | Modification/ Trail (if any): | | | | | NIL | | | | |
| | ii. | Deviations (if any): | | | | | NIL | | | | |

GS-4579



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. :

QMF4254;
Version: 05

| | | | | | | | |
|-------|---|---|----------------------------|--|---------------------|------------|-----|
| 1. | SHELL No: | 4600 | DISPATCH DATE: | | | 02.04.2015 | |
| 2. | RAILWAY | NR | Type: | GS | Coach No.: | 153411 | |
| 3. | Booked to | SSE/C&W/FZR | | | | | |
| 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) 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 | | 1104/1102 | 1103/1104 | | |
| viii) | Buffer/CBC (Make) | | | JLS | | | |
| ix) | Draw Gear (Make) | | | RK | | | |
| 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 | | VIBGYOR | 85/86 | | |
| 8.2 | APPLICATION OF PCN-123 | | SATISFACTORY | | | | |
| 8.3 | INSUALTION | | SATISFACTORY | | | | |
| 9. | Traceability of Furnishing Items: | | | Make | | | |
| i. | BRAKE EQUIPMENT | | | FAIVELEY | | | |
| ii. | SEAT & BERTH | | | OVPL | | | |
| iii. | WATER TANKS | | | RAIL FAB | | | |
| iv. | PVC | | | RESPONSIVE | | | |
| v. | FLOOR BOARD | | | TAYAL | | | |
| vi. | WINDOWS | | | AGF, MECIDON | | | |
| vii. | LAV. DOORS | | | DHINJAN | | | |
| viii. | LP SHEET | | | NA | | | |
| ix) | BIO- TOILET | | | M K PRECISION | | | |
| 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

| | | | | | | | | | |
|------|--|---|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 12. | Bogie Details: | Shell No. | Railway | | Type | Coach No. | | Dispatch Date | |
| | | 4600 | NR | | GS | 153411 | | 21-03-2015 | |
| 12.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' | | | | | | | | |
| 12.2 | Wheel & Axle Details: | PP Side | | | | NPP Side | | | |
| | i. Bogie No. | 150315 | | | | 150316 | | | |
| | ii. Frame No. | ASR-03 | | | | ASR-1044 | | | |
| | iii. Axle No. | RWF-105164 | | 3839 | | 10183 | | A-4164 | |
| | iv. Wheel Diameter | 917.50 | 917.00 | 916.00 | 916.00 | 916.50 | 916.00 | 917.00 | 917.00 |
| | v. Wheel Disc No. | 06443/ 13600 | 05977/ 13448 | 09441/ 13353 | 06156/ 13471 | 60831/ 08510 | 06360/ 13600 | 09013/ 13204 | 09333/ 13353 |
| | vi. R.B. Nos. | A0267 | A0251 | A1561 | A1410 | A0260 | A0899 | J2120 | J2156 |
| | vii. R.B. Make | NBC | | NBC | | NBC | | NBC | |
| | viii. R.B. Type | Direct Mounted Spherical Roller Bearing | | | | | | | |
| 12.3 | Items Traceability: | | | | | | | | |
| | i. | BRAKE CYLINDER (Make) | | | | PEW | | | |
| | ii. | SECONDARY Shock Absorber (Make) | | | | KNORR BREMSE | | | |
| 12.4 | i. | Modification/ Trail (if any): | | | | NIL | | | |
| | ii. | Deviations (if any): | | | | NIL | | | |

GS-4600



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. :

QMF4254;
Version: 05

| | | | | | | | |
|-------|---|---|----------------------------|--|---------------------|-------------------|------------|
| 1. | SHELL No: | 4592 | DISPATCH DATE: | | | 11.04.2015 | |
| 2. | RAILWAY | NR | Type: | GS | Coach No.: | 153433 | |
| 3. | Booked to | SSE/C&W/DLI | | | | | |
| 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) 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) | | | ATUL | | | |
| ix) | Draw Gear (Make) | | | RK | | | |
| 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 | | 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, MECIDON | | | |
| vii. | LAV. DOORS | | | DHINJAN | | | |
| viii. | LP SHEET | | | NA | | | |
| ix) | BIO- TOILET | | | M K PRECISION | | | |
| 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

| | | | | | | | | | | | |
|------|---|--|---|-----------------|-----------------|-----------------|-----------------|------------------|-----------------|----------------------|--|
| 12. | Bogie Details: | Shell No. | | Railway | | Type | | Coach No. | | Dispatch Date | |
| | | 4592 | | NR | | GS | | 153433 | | 26-03-2015 | |
| 12.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' | | | | | | | | | | |
| 12.2 | Wheel & Axle Details: | PP Side | | | | | NPP Side | | | | |
| | i. | Bogie No. | 150331 | | | | | 150328 | | | |
| | ii. | Frame No. | ASR-04 | | | | | ASR-981 | | | |
| | iii. | Axle No. | 9311 | | U-6637 | | A-3593 | | A3598 | | |
| | iv. | Wheel Diameter | 916.00 | 916.00 | 915.00 | 915.00 | 916.00 | 916.00 | 916.00 | 916.50 | |
| | v. | Wheel Disc No. | 09866/ 13966 | 60859/ 08510 | 05101/ 13830 | 05163/ 13830 | 06423/ 13600 | 06346/ 13600 | 06029/ 13448 | 05272/14 068 | |
| | vi. | R.B. Nos. | M2803 | M2806 | A0423 | A0418 | A0268 | A1482 | A1333 | A0939 | |
| | vii. | R.B. Make | NBC | | NBC | | NBC | | NBC | | |
| | 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 | | | | |

GS-4592



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. :

QMF4254;
Version: 05

| | | | | | | |
|-------|---|--|--|--------------------------|------------|---------------------|
| 1. | SHELL No: | 4580 | DISPATCH DATE: | | | 11.04.2015 |
| 2. | RAILWAY | NR | Type: | GS | Coach No.: | 153434 |
| 3. | Booked to | SSE/C&W/DLI | | | | |
| 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) 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) | ATUL | | | | |
| ix) | Draw Gear (Make) | RK | | | | |
| 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 | VIBGYOR | 85/86 | | |
| 8.2 | APPLICATION OF PCN-123 | SATISFACTORY | | | | |
| 8.3 | INSUALTION | SATISFACTORY | | | | |
| 9. | Traceability of Furnishing Items: | | | Make | | |
| i. | BRAKE EQUIPMENT | | | FAIVELEY | | |
| ii. | SEAT & BERTH | | | OVPL | | |
| iii. | WATER TANKS | | | RAIL FAB | | |
| iv. | PVC | | | RESPONSIVE | | |
| v. | FLOOR BOARD | | | TAYAL | | |
| vi. | WINDOWS | | | ABC, AGF, MECIDON | | |
| vii. | LAV. DOORS | | | DHINJAN | | |
| viii. | LP SHEET | | | NA | | |
| ix) | BIO- TOILET | | | M K PRECISION | | |
| 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

| | | | | | | | | | | |
|------|--|---------------------------------|---|-------------|-------------|---------------|-------------|-------------|-------------|-------------|
| 12. | Bogie Details: | Shell No. | Railway | Type | Coach No. | Dispatch Date | | | | |
| | | 4580 | NR | GS | 153434 | 26-03-2015 | | | | |
| 12.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' | | | | | | | | | |
| 12.2 | Wheel & Axle Details: | PP Side | | | | NPP Side | | | | |
| | i. | Bogie No. | 150336 | | | | 150334 | | | |
| | ii. | Frame No. | ASR-15 | | | | ASR-01 | | | |
| | iii. | Axle No. | N-7414 | | A-4662 | | Z-7146 | | 10170 | |
| | iv. | Wheel Diameter | 917.00 | 917.00 | 916.00 | 916.00 | 915.00 | 915.00 | 915.00 | 915.00 |
| | v. | Wheel Disc No. | 06691/13094 | 06639/13039 | 09352/13353 | 09385/13353 | 06648/13094 | 06074/13471 | 06658/13094 | 05090/13830 |
| | vi. | R.B. Nos. | J2094 | J2089 | M3127 | M3216 | A0395 | M3172 | M3143 | M3145 |
| | vii. | R.B. Make | NBC | | NBC | | NBC | | NBC | |
| | viii. | R.B. Type | Direct Mounted Spherical Roller Bearing | | | | | | | |
| 12.3 | <u>Items Traceability:</u> | | | | | | | | | |
| | i. | BRAKE CYLINDER (Make) | | | | AJT | | | | |
| | ii. | SECONDARY Shock Absorber (Make) | | | | KNORR BREMSE | | | | |
| 12.4 | i. | Modification/ Trail (if any): | | | | NIL | | | | |
| | ii. | Deviations (if any): | | | | NIL | | | | |

GS-4580



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. :

QMF4254;
Version: 05

| | | | | | | |
|-------|---|---|----------------------------|--|---------------------|---------------------|
| 1. | SHELL No: | 4583 | DISPATCH DATE: | | | 31.03.2015 |
| 2. | RAILWAY | NR | Type: | GS | Coach No.: | 153402 |
| 3. | Booked to | SSE/C&W/DLI | | | | |
| 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) 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) | | | ATUL | | |
| ix) | Draw Gear (Make) | | | RK | | |
| 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 | | 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 | | | DHINJAN | | |
| viii. | LP SHEET | | | NA | | |
| 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 |
| | | 4583 | NR | | GS | | 153402 | | 20-03-2015 |
| 12.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' | | | | | | | | |
| 12.2 | Wheel & Axle Details: | PP Side | | | | NPP Side | | | |
| | i. Bogie No. | 150302 | | | | 150303 | | | |
| | ii. Frame No. | ASR-973 | | | | ASR-1014 | | | |
| | iii. Axle No. | 10372 | | 5301 | | 10165 | | 10358 | |
| | iv. Wheel Diameter | 918.00 | 917.50 | 915.00 | 915.00 | 915.00 | 915.00 | 916.00 | 916.00 |
| | v. Wheel Disc No. | 06072/ 13471 | 09365/ 13353 | 06081/ 13471 | 08896/ 13204 | 06152/ 13471 | 09374/ 13353 | 59851/ 08160 | 09351/13 353 |
| | vi. R.B. Nos. | A1011 | A1092 | A1425 | A0964 | A1544 | A1512 | A1367 | A1500 |
| | vii. R.B. Make | NBC | | NBC | | NBC | | NBC | |
| viii. R.B. Type | Direct Mounted Spherical Roller Bearing | | | | | | | | |
| 12.3 | <u>Items Traceability:</u> | | | | | | | | |
| | i. | BRAKE CYLINDER (Make) | | | | PEW | | | |
| ii. | SECONDARY Shock Absorber (Make) | | | | KNORR BREMSE | | | | |
| 12.4 | i. | Modification/ Trail (if any): | | | | NIL | | | |
| | ii. | Deviations (if any): | | | | NIL | | | |

GS-4583



ROLLING STOCK CERTIFICATE

Form No. :

QMF4254;

Version: 05

| | | | | | | |
|-------|---|---|----------------------------|--|---------------------|---------------------|
| 1. | SHELL No: | 5003 | DISPATCH DATE: | | | 15.04.2015 |
| 2. | RAILWAY | NR | Type: | GS | Coach No.: | 153436 |
| 3. | Booked to | SSE/C&W/DLI | | | | |
| 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) 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) | | | ATUL | | |
| ix) | Draw Gear (Make) | | | RK | | |
| 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 | | 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, AGF, MECIDON | | |
| vii. | LAV. DOORS | | | DHINJAN | | |
| viii. | LP SHEET | | | NA | | |
| ix) | BIO- TOILET | | | OASIS, RAIL FAB | | |
| 10. | 10.1 | Modification/ Trial (if any): | | | NIL | |
| | 10.2 | Deviations (if any): | | | NIL | |



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

| | | | | | | | | | | | |
|------|--|---------------------------------|---|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--|
| 12. | Bogie Details: | Shell No. | Railway | Type | Coach No. | Dispatch Date | | | | | |
| | | 5003 | NR | GS | 153436 | 28-03-2015 | | | | | |
| 12.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' | | | | | | | | | | |
| 12.2 | Wheel & Axle Details: | PP Side | | | | NPP Side | | | | | |
| | i. | Bogie No. | 150346 | | | | 150345 | | | | |
| | ii. | Frame No. | ASR-1074 | | | | ASR-1078 | | | | |
| | iii. | Axle No. | Y-8396 | | 4020 | | A-3533 | | A-3597 | | |
| | iv. | Wheel Diameter | 916.00 | 916.00 | 916.00 | 916.00 | 915.00 | 915.00 | 915.00 | 915.50 | |
| | v. | Wheel Disc No. | 05122/ 13830 | 06020/ 13094 | 28319/ 16974 | 25820/ 15353 | 09347/ 13353 | 05913/ 13448 | 09404/ 13353 | 09378/13 353 | |
| | vi. | R.B. Nos. | A0411 | A0410 | A1543 | A1386 | A1457 | A0974 | A1476 | A1380 | |
| | vii. | R.B. Make | NBC | | NBC | | NBC | | NBC | | |
| | viii. | R.B. Type | Direct Mounted Spherical Roller Bearing | | | | | | | | |
| 12.3 | <u>Items Traceability:</u> | | | | | | | | | | |
| | i. | BRAKE CYLINDER (Make) | | | | | AJT | | | | |
| | ii. | SECONDARY Shock Absorber (Make) | | | | | KNORR BREMSE | | | | |
| 12.4 | i. | Modification/ Trail (if any): | | | | | NIL | | | | |
| | ii. | Deviations (if any): | | | | | NIL | | | | |

GS-5003



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. :

QMF4254;
Version: 05

| | | | | | | |
|-------|---|---|--|--|------------|---------------------|
| 1. | SHELL No: | 4597 | DISPATCH DATE: | | | 03.04.2015 |
| 2. | RAILWAY | NR | Type: | GS | Coach No.: | 153408 |
| 3. | Booked to | SSE/C&W/MB | | | | |
| 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) 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) | | ATUL | | | |
| ix) | Draw Gear (Make) | | RK | | | |
| 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 | VIBGYOR | 85/86 | | |
| 8.2 | APPLICATION OF PCN-123 | | SATISFACTORY | | | |
| 8.3 | INSUALTION | | SATISFACTORY | | | |
| 9. | Traceability of Furnishing Items: | | | Make | | |
| i. | BRAKE EQUIPMENT | | | FAIVELEY | | |
| ii. | SEAT & BERTH | | | OVPL | | |
| iii. | WATER TANKS | | | AMIT, RAIL FAB | | |
| iv. | PVC | | | RESPONSIVE | | |
| v. | FLOOR BOARD | | | TAYAL | | |
| vi. | WINDOWS | | | AGF, MECIDON | | |
| vii. | LAV. DOORS | | | DHINJAN | | |
| viii. | LP SHEET | | | NA | | |
| ix) | BIO- TOILET | | | M K PRECISION | | |
| 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

| | | | | | | | | | |
|------|--|---|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 12. | Bogie Details: | Shell No. | Railway | | Type | Coach No. | | Dispatch Date | |
| | | 4597 | NR | | GS | 153408 | | 21-03-2015 | |
| 12.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' | | | | | | | | |
| 12.2 | Wheel & Axle Details: | PP Side | | | | NPP Side | | | |
| | i. Bogie No. | 150308 | | | | 150309 | | | |
| | ii. Frame No. | ASR-1069 | | | | ASR-13 | | | |
| | iii. Axle No. | 10362 | | A-3776 | | 4235 | | P-2028 | |
| | iv. Wheel Diameter | 917.00 | 916.50 | 917.50 | 917.00 | 917.00 | 917.50 | 917.00 | 917.50 |
| | v. Wheel Disc No. | 06126/ 134710 | 06146/ 13471 | 60822/ 08510 | 09421/ 13353 | 60803/ 08510 | 05751/ 13730 | 09171/ 13353 | 62739/08 675 |
| | vi. R.B. Nos. | A0263 | A196 | A0246 | A0253 | A1383 | A0727 | A0255 | A1306 |
| | vii. R.B. Make | NBC | | NBC | | NBC | | NBC | |
| | viii. R.B. Type | Direct Mounted Spherical Roller Bearing | | | | | | | |
| 12.3 | Items Traceability: | | | | | | | | |
| | i. | BRAKE CYLINDER (Make) | | | | PEW | | | |
| | ii. | SECONDARY Shock Absorber (Make) | | | | KNORR BREMSE | | | |
| 12.4 | i. | Modification/ Trail (if any): | | | | NIL | | | |
| | ii. | Deviations (if any): | | | | NIL | | | |

GS-4597



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. :

QMF4254;
Version: 05

| | | | | | | | |
|-------|---|---------------------------------------|----------------------------|--|---------------------|-------------------|------------|
| 1. | SHELL No: | 4596 | DISPATCH DATE: | | | 03.04.2015 | |
| 2. | RAILWAY | NR | Type: | GS | Coach No.: | 153410 | |
| 3. | Booked to | SSE/C&W/MB | | | | | |
| 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) 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 | | 1104/1102 | 1104/1104 | | |
| viii) | Buffer/CBC (Make) | | | JLS | | | |
| ix) | Draw Gear (Make) | | | RK | | | |
| 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 | | | ESCORTS | | | |
| ii. | SEAT & BERTH | | | OVPL | | | |
| iii. | WATER TANKS | | | RAIL FAB | | | |
| iv. | PVC | | | RESPONSIVE | | | |
| v. | FLOOR BOARD | | | TAYAL | | | |
| vi. | WINDOWS | | | AGF, MECIDON | | | |
| vii. | LAV. DOORS | | | DHINJAN | | | |
| viii. | LP SHEET | | | NA | | | |
| ix) | BIO- TOILET | | | M K PRECISION | | | |
| 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

| | | | | | | | | | |
|------|--|---|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 12. | Bogie Details: | Shell No. | Railway | | Type | Coach No. | | Dispatch Date | |
| | | 4596 | NR | | GS | 153410 | | 24-03-2015 | |
| 12.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' | | | | | | | | |
| 12.2 | Wheel & Axle Details: | PP Side | | | | NPP Side | | | |
| | i. Bogie No. | 150322 | | | | 150323 | | | |
| | ii. Frame No. | ASR-1019 | | | | ASR-1031 | | | |
| | iii. Axle No. | A-5901 | | N-7965 | | 4042 | | A-4204 | |
| | iv. Wheel Diameter | 917.50 | 918.00 | 917.00 | 917.00 | 916.00 | 916.00 | 916.00 | 916.00 |
| | v. Wheel Disc No. | 06128/ 13471 | 06376/ 13600 | 09704/ 14862 | 09924/ 13966 | 60843/ 08510 | 09707/ 14862 | 09706/ 14862 | 09881/13 966 |
| | vi. R.B. Nos. | A-0890 | A-1259 | A-1396 | A-1372 | M-2778 | M-2771 | A-1378 | A-0926 |
| | vii. R.B. Make | NBC | | NBC | | NBC | | NBC | |
| | viii. R.B. Type | Direct Mounted Spherical Roller Bearing | | | | | | | |
| 12.3 | Items Traceability: | | | | | | | | |
| | i. | BRAKE CYLINDER (Make) | | | | PEW | | | |
| | ii. | SECONDARY Shock Absorber (Make) | | | | KNORR BREMSE | | | |
| 12.4 | i. | Modification/ Trail (if any): | | | | NIL | | | |
| | ii. | Deviations (if any): | | | | NIL | | | |

GS-4596



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. :

QMF4254;
Version: 05

| | | | | | | | |
|-------|---|---|----------------------------|--|---------------------|-------------------|------------|
| 1. | SHELL No: | 5002 | DISPATCH DATE: | | | 16.04.2015 | |
| 2. | RAILWAY | NR | Type: | GS | Coach No.: | 153437 | |
| 3. | Booked to | SSE/C&W/DLI | | | | | |
| 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) 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) | | | ATUL | | | |
| ix) | Draw Gear (Make) | | | RK | | | |
| 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 | | 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 | | | AGF, ABC, MECIDON | | | |
| vii. | LAV. DOORS | | | DHINJAN | | | |
| viii. | LP SHEET | | | NA | | | |
| ix) | BIO- TOILET | | | OASIS, RAIL FAB | | | |
| 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

| | | | | | | | | | | | |
|------|---|--|---|-----------------|-----------------|-----------------|-----------------|------------------|-----------------|----------------------|--|
| 12. | Bogie Details: | Shell No. | | Railway | | Type | | Coach No. | | Dispatch Date | |
| | | 5002 | | NR | | GS | | 153437 | | 27-03-2015 | |
| 12.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' | | | | | | | | | | |
| 12.2 | Wheel & Axle Details: | | PP Side | | | | NPP Side | | | | |
| | i. | Bogie No. | 150339 | | | | 150340 | | | | |
| | ii. | Frame No. | ASR-21 | | | | ASR-974 | | | | |
| | iii. | Axle No. | K-5548 | | A-3967 | | P-1929 | | A-5027 | | |
| | iv. | Wheel Diameter | 915.00 | 915.20 | 917.00 | 917.00 | 917.00 | 917.00 | 917.00 | 917.00 | |
| | v. | Wheel Disc No. | 08976/ 13204 | 08933/ 13204 | 06011/ 13448 | 06020/ 13448 | 06645/ 13094 | 56386/ 07581 | 06621/ 13094 | 09367/13 353 | |
| | vi. | R.B. Nos. | J-2129 | J-2132 | J-2273 | J-2306 | J-2268 | J-2302 | J-2271 | J-2280 | |
| | vii. | R.B. Make | NBC | | NBC | | NBC | | NBC | | |
| | 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 | | | | |

GS-5002



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

Page 1 of 3

ROLLING STOCK CERTIFICATE

Form No. :

QMF4254;
Version: 05

| | | | | | | |
|-------|---|---|----------------------------|--|---------------------|---------------------|
| 1. | SHELL No: | 5001 | DISPATCH DATE: | | | 18.04.2015 |
| 2. | RAILWAY | NR | Type: | GS | Coach No.: | 153435 |
| 3. | Booked to | SSE/C&W/DLI | | | | |
| 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) 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 | | 1104/1102 | 1104/1104 | |
| viii) | Buffer/CBC (Make) | | | JLS | | |
| ix) | Draw Gear (Make) | | | RK | | |
| 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 | | 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 | | | ORIENTAL | | |
| v. | FLOOR BOARD | | | RESPONSIVE | | |
| vi. | WINDOWS | | | ABC, MECIDON | | |
| vii. | LAV. DOORS | | | DHINJAN | | |
| viii. | LP SHEET | | | NA | | |
| ix) | BIO- TOILET | | | OASIS | | |
| 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

| 12. | Bogie Details: | Shell No. | Railway | Type | Coach No. | Dispatch Date | | | |
|------|--|---|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | | 5001 | NR | GS | 153435 | 28-03-2015 | | | |
| 12.1 | BOGIE GENERAL ARRANGEMENT DRAWING NO.: CC00002 Alt 'a' | | | | | | | | |
| 12.2 | Wheel & Axle Details: | PP Side | | | | NPP Side | | | |
| | i. Bogie No. | 150341 | | | | 150338 | | | |
| | ii. Frame No. | ASR-1081 | | | | ASR-02 | | | |
| | iii. Axle No. | A-3574 | | P-5967 | | A-3812 | | 4104 | |
| | iv. Wheel Diameter | 917.00 | 917.00 | 916.00 | 916.00 | 916.00 | 916.00 | 915.00 | 915.00 |
| | v. Wheel Disc No. | 06434/ 13600 | 09699/ 14862 | 56419/ 07581 | 09328/ 13353 | 06748/ 13094 | 06704/ 13094 | 22761/ 15486 | 28186/16 013 |
| | vi. R.B. Nos. | J-2291 | F-0652 | A-1143 | A-1056 | M-3202 | M-3235 | J-2136 | M-2894 |
| | vii. R.B. Make | NBC | | NBC | | NBC | | NBC | |
| | viii. R.B. Type | Direct Mounted Spherical Roller Bearing | | | | | | | |
| 12.3 | <u>Items Traceability:</u> | | | | | | | | |
| | i. BRAKE CYLINDER (Make) | | | | | AJT | | | |
| | ii. SECONDARY Shock Absorber (Make) | | | | | KNORR BREMSE | | | |
| 12.4 | i. Modification/ Trail (if any): | | | | | NIL | | | |
| | ii. Deviations (if any): | | | | | NIL | | | |

GS-5001