



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

| | | | | | | | |
|-------|-----------------------------------|---------|--|----------|--------------------------------|---------------------|------------|
| 1. | SHELL No. | 6009 | DISPATCH DATE | | | | 18.02.2017 |
| 2. | Railway | NR | Type | LFCWAC | Coach No. | 163030 | |
| 3. | Booked to | | SSE/C&W/FZR | | | | |
| 4. | Tare Weight of Coach | | 43.6 T | | | | |
| 5. | Carrying Capacity | Seating | 38 | Sleeping | 38 | Luggage | NIL |
| 6. | Shell Details: WA900001 | | | | | | |
| 6.1 | Leading Dimensions: | | | | | | |
| i) | Maximum length over Body | | 23700+10/-0 mm | | | | |
| ii) | Maximum width over Body | | 3240-8/+0 mm, 3050 mm (LWSCZDAC) | | | | |
| iii) | Max. Height From Rail Level | | 4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC) | | | | |
| iv) | Buffer/CBC Height | | Specified : 1105 +0 /-15 mm | | 1104 | 1105 | |
| v) | Buffer/CBC (Make) | | SANROK | | Fiba Device | NIL | |
| 7. | Air Brake Testing: | | Description | | Specified | Observed | |
| 7.1 | Full Brake Application | | Reduce pressure of BP from 5.0 to 3.4 kg/cm ² | | 6 –10 sec | 6 Sec | |
| | | | Max Pressure in BC | | 3.00 ± 0.15 Kg/cm ² | 3.00 | |
| | | | All Brake are applied | | OK | OK | |
| 7.2 | Insensitivity | | Exhaust BP @ 0.3 kg/cm ² /min | | No brake application | OK | |
| 7.3 | Sensitivity | | Exhaust BP @ 0.1 kg/cm ² /Sec, After 02 Sec. | | Brake must apply | OK | |
| 8. | PAINTING DEATAILS: | | TYPE OF PAINT | | MAKE | AVERAGE GLOSS VALUE | |
| 8.1 | PAINT | | PU PAINT | | VIBGYOR | 88/89 | |
| 8.2 | APPLICATION OF PCN-123 | | SATISFACTORY | | | | |
| 8.3 | INSUALTION | | SATISFACTORY | | | | |
| 9. | Traceability of Furnishing Items: | | | | Make | | |
| i. | BRAKE EQUIPMENT | | | | KBI | | |
| ii. | CDTS/ BIO TOILET | | | | AMIT | | |
| iii. | SEATS/ BERTHS | | | | AAR KAY FOAMS | | |
| iv. | BODY SIDE DOOR | | | | JBM, SUKATA | | |
| v. | VESTIBULE SLIDING DOOR | | | | KALSI | | |
| vi. | SALOON DOOR | | | | KALSI | | |
| vii. | WATER TANKS | | | | AMIT | | |
| viii. | UIC VESTIBULE | | | | ESCORTS | | |
| ix | FLOOR BOARD | | | | NARBADA | | |
| x | PVC FLOORING | | | | RESPONSIVE | | |
| 10. | | | | | | | |
| i | Modification / Trail (if any): | | NIL | | | | |
| ii | Deviations if any: | | NIL | | | | |



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|--------------------|---|---------------------------------------|------------------------------------|--------------|--|---------------|--|--------------|-------------|-------------|
| 11. | Bogie Details: | | Shell No. | Railway | Type | Coach No. | Dispatch Date | | | |
| | | | 6009 | NR | LFCWAC | 163030 | 29-10-2016 | | | |
| 11.1 | Wheel & Axle Details: | | PP Side | | | | NPP Side | | | |
| | i. | Bogie No. | 166901 | | | | 166889 | | | |
| | ii. | Frame No. | FM-654 | | | | FM-655 | | | |
| | iii. | Bolster No. | 6250-GT | | | | 6238-GT | | | |
| | iv. | Axle No. | R-3403 | | R-2726 | | P-9797 | | R-2330 | |
| | v. | Wheel Dia. | 917.00 | 917.00 | 917.00 | 917.00 | 916.50 | 916.00 | 916.50 | 917.00 |
| | vi. | Wheel Disc No. | 02179-6QG6 | 08275-6QM4 | 00173-7301 | 00010-7196 | 00084-7301 | 00131-7301 | 00114-7301 | 00116-07198 |
| | vii. | R.B. Nos. | 05219 | 06177 | 06133 | 05636 | 05283 | 6249 | 05351 | 05958 |
| | viii. | R.B. Make | TIMKEN | | TIMKEN | | TIMKEN | | TIMKEN | |
| | ix. | RB Type | UIC CARTRIDGE TAPER ROLLER BEARING | | | | | | | |
| 11.2 | Secondary suspension load deflection Values: | | | | | | | | | |
| Description | | Secondary 1 | | Secondary 2 | | Secondary 1 | | Secondary 2 | | |
| | | Outer | Inner | Outer | Inner | Outer | Inner | Outer | Inner | |
| i. | Make & nos. | RSK-16-9-800 | AFJ-14-5-15 | RSK-16-9-380 | AFJ-14-5-20 | RSK-16-6-1042 | ABOK-16-9-8 | RSK-16-6-875 | ABOK-16-9-6 | |
| ii. | Ht. at test load | 510 | 465 | 511 | 466 | 510 | 468 | 512 | 468 | |
| iii. | Align .deviation | 6 | 20 | 6 | 20 | 7 | 7 | 9 | 8 | |
| 11.3 | Items traceability: | | | | | | | | | |
| | Sno. | Item | | | PP Side Bogie | | NPP side Bogie | | Make | |
| | i. | Primary Outer Spring | | | RSK-15-10 | | RSK-15-10 | | RSK | |
| | ii. | Primary inner Spring | | | RSK-16-3 | | RSK-16-3 | | RSK | |
| | iii. | Primary Damper | | | 4373,4377,4356,4385 | | 4372,4354,4382,4349 | | KNORR | |
| | iv. | Secondary damper | | | 0606,0624 | | 0652,0462 | | SV | |
| | v. | Lateral Damper | | | 0560 | | 0517 | | SV | |
| | vi. | Yaw Damper | | | | | | | NIL | |
| | vii. | Brake cylinder & Caliper | | | 4203/691,4243/691 4250/691,3743/691 | | 4202/691,4244/691 4204/691,4072/691 | | KBI | |
| | viii. | Brake Disc | | | | | | | KBI | |
| | ix. | Ball joint Control arm | | | | | | | MGN | |
| | x. | Lateral Bump stop | | | | | | | MGN | |
| | xi. | Traction center make | | | | | | | SARITA | |
| | xii. | Traction lever make | | | | | | | SARITA | |
| | xiii. | Ball joint traction lever | | | | | | | GMT | |
| | xiv. | Traction centre elastic | | | | | | | SGA | |
| | xv. | Secondary rubber pad | | | | | | | TECSPACK | |
| | xvi. | Rubber spring | | | | | | | GMT | |
| | xvii. | Anti roll bar make | | | | | | | SARITA | |
| | xviii. | Ball joint roll link | | | | | | | SARITA | |
| | xix. | Fork make | | | | | | | EMSON | |
| 11.4 | i. | Modification / Trial (if any): | | | | NIL | | | | |
| | ii. | Deviations (if any): | | | | NIL | | | | |



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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

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|-------|-----------------------------------|---------|--|----------|--------------------------------|---------------------|------------|
| 1. | SHELL No. | 6006 | DISPATCH DATE | | | | 15.02.2017 |
| 2. | Railway | NR | Type | LFCWAC | Coach No. | 163029 | |
| 3. | Booked to | | SSE/C&W/FZR | | | | |
| 4. | Tare Weight of Coach | | 43.6 T | | | | |
| 5. | Carrying Capacity | Seating | 38 | Sleeping | 38 | Luggage | NIL |
| 6. | Shell Details: WA900001 | | | | | | |
| 6.1 | Leading Dimensions: | | | | | | |
| i) | Maximum length over Body | | 23700+10/-0 mm | | | | |
| ii) | Maximum width over Body | | 3240-8/+0 mm, 3050 mm (LWSCZDAC) | | | | |
| iii) | Max. Height From Rail Level | | 4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC) | | | | |
| iv) | Buffer/CBC Height | | Specified : 1105 +0 /-15 mm | | 1105 | 1105 | |
| v) | Buffer/CBC (Make) | | FAIVELEY | | Fiba Device | NIL | |
| 7. | Air Brake Testing: | | Description | | Specified | Observed | |
| 7.1 | Full Brake Application | | Reduce pressure of BP from 5.0 to 3.4 kg/cm ² | | 6 –10 sec | 6 Sec | |
| | | | Max Pressure in BC | | 3.00 ± 0.15 Kg/cm ² | 3.00 | |
| | | | All Brake are applied | | OK | OK | |
| 7.2 | Insensitivity | | Exhaust BP @ 0.3 kg/cm ² /min | | No brake application | OK | |
| 7.3 | Sensitivity | | Exhaust BP @ 0.1 kg/cm ² /Sec, After 02 Sec. | | Brake must apply | OK | |
| 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. | BIO TOILET | | | | RAIL FAB, JSL | | |
| iii. | SEATS/ BERTHS | | | | AAR KAY FOAMS | | |
| iv. | BODY SIDE DOOR | | | | SUKATA | | |
| v. | VESTIBULE SLIDING DOOR | | | | KALSI | | |
| vi. | SALOON DOOR | | | | KALSI | | |
| vii. | WATER TANKS | | | | SHIVALIK, AMIT | | |
| viii. | UIC VESTIBULE | | | | SSIPL | | |
| ix | FLOOR BOARD | | | | NARBADA | | |
| x | PVC FLOORING | | | | RESPONSIVE | | |
| XI | PARTITION PANEL | | | | HINDUSTAN | | |
| 10. | | | | | | | |
| i | Modification / Trail (if any): | | NIL | | | | |
| ii | Deviations if any: | | NIL | | | | |



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|------|---|---------------------------------------|------------------------------------|---------------|--|---------------|--------------------|---|--------------------|------------|----------------------|--------|
| 11. | Bogie Details: | | Shell No. | | Railway | | Type | | Coach No. | | Dispatch Date | |
| | | | 6006 | | NR | | LFCWAC | | 163029/C | | 12-11-2016 | |
| 11.1 | Wheel & Axle Details: | | PP Side | | | | | NPP Side | | | | |
| | i. | Bogie No. | 167013 | | | | | 167015 | | | | |
| | ii. | Frame No. | FM-638 | | | | | FM-649 | | | | |
| | iii. | Bolster No. | 6379-P | | | | | 6392-P | | | | |
| | iv. | Axle No. | R-2262 | | N-0665 | | | N-0500 | | N-0944 | | |
| | v. | Wheel Dia. | 916.00 | 916.00 | 917.00 | 917.00 | 916.00 | 916.00 | 916.00 | 916.00 | 916.00 | 916.00 |
| | vi. | Wheel Disc No. | 05236-6QH0 | 01554-6QH2 | 08403-6QH4 | 05822-6QH9 | 00100-7301 | 00009-6105 | 6106-00175 | 00151-6129 | | |
| | vii. | R.B. Nos. | 05182 | 05499 | 35285 | 35684 | 33920 | 34930 | 35665 | 02321 | | |
| | viii. | R.B. Make | SKF | | SKF | | | SKF | | SKF | | |
| | ix. | RB Type | UIC CARTRIDGE TAPER ROLLER BEARING | | | | | | | | | |
| 11.2 | Secondary suspension load deflection Values: | | | | | | | | | | | |
| | Description | | Secondary 1 | | Secondary 2 | | Secondary 1 | | Secondary 2 | | | |
| | | | Outer | Inner | Outer | Inner | Outer | Inner | Outer | Inner | | |
| i. | Make & nos. | RSK-16-7-1096 | FSK-16-7-18 | RSK-16-7-1122 | FSK-16-7-21 | RSK-15-5-1083 | RSK-16-5-802 | RSK-15-5-1085 | RSK-16-5-1001 | | | |
| ii. | Ht. at test load | 512 | 467 | 513 | 467.50 | 510 | 463 | 512 | 464 | | | |
| iii. | Align .deviation | 13 | 7 | 14 | 7 | 15 | 43 | 18 | 44 | | | |
| 11.3 | Items traceability: | | | | | | | | | | | |
| | Sno. | Item | | | PP Side Bogie | | | NPP side Bogie | | | Make | |
| | i. | Primary Outer Spring | | | RSK-15-4 | | | RSK-16-5 | | | RSK | |
| | ii. | Primary inner Spring | | | RSK-16-3 | | | RSK-16-6 | | | RSK | |
| | iii. | Primary Damper | | | 4246,4233,4141,4251 | | | 3866,4164,4183,4040 | | | KNORR | |
| | iv. | Secondary damper | | | 0464,0441 | | | 0426,0496 | | | SV | |
| | v. | Lateral Damper | | | 0337 | | | 0441 | | | SV | |
| | vi. | Yaw Damper | | | | | | | | | NIL | |
| | vii. | Brake cylinder & Caliper | | | 3710/691,3615/691 3711/691,3674/691 | | | 4140/691,4101/691, 4141/691,4179/691 | | | KBI | |
| | viii. | Brake Disc | | | | | | | | | FTI | |
| | ix. | Ball joint Control arm | | | | | | | | | MGN | |
| | x. | Lateral Bump stop | | | | | | | | | MGN | |
| | xi. | Traction center make | | | | | | | | | EMSON | |
| | xii. | Traction lever make | | | | | | | | | SARITA | |
| | xiii. | Ball joint traction lever | | | | | | | | | MGN | |
| | xiv. | Traction centre elastic | | | | | | | | | GMT | |
| | xv. | Secondary rubber pad | | | | | | | | | TECSPACK | |
| | xvi. | Rubber spring | | | | | | | | | GMT | |
| | xvii. | Anti roll bar make | | | | | | | | | SARITA | |
| | xviii. | Ball joint roll link | | | | | | | | | SARITA | |
| | xix. | Fork make | | | | | | | | | SARITA | |
| 11.4 | i. | Modification / Trial (if any): | | | | | | NIL | | | | |
| | ii. | Deviations (if any): | | | | | | NIL | | | | |