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## ANNEXURE-1

**Detailed Description of LED Light Fitting for Amrit Bharat Ver 3.0 AC coaches :**

S.No	Description	Qty/Coach
A.	<p>Set of LED Light Fitting generally conforming to RDSO specification no. RDSO/PE/SPEC/TL/0091, Rev-1 for <b>LWACCN/PP2</b> Amrit Bharat Ver.3.0 coaches.</p> <ol style="list-style-type: none"> <li>LED Light fitting for Corridor (Length of 1785 mm), 18W to Drg. No. ICF/STD 7-6- 059, alt-d (or) latest– <b>Qty -09 nos.</b> <ol style="list-style-type: none"> <li><i>Length of Item-11 (joining diffuser) of drg. No: ICF/STD-7-6-059,alt.-d shall be suitably modified to cover the area in between adjacent light fittings.</i></li> <li><i>It shall be noted that all 09 nos. of LED light fittings will be mounted in the aluminium extrusion provided by the purchaser and at the ends suitable dummy diffuser shall be provided to cover the gaps between end cover and light fitting.</i></li> <li><i>Polycarbonate material, Connectors and cables, rubber components, powder coating paint shall be HL-3 compliant to EN 45545.</i></li> <li><i>No electrolytic capacitor shall be used in complete luminaire design.</i></li> <li><i>Driver enclosure shall be of Aluminium.</i></li> </ol> </li> <li>LED Light fitting for Cabin similar to Type-L, to drawing no: LW76090,alt.-b with direct light (18 W) and indirect light (3 W) with warm white colour. - Qty <b>-09 nos.</b> <ol style="list-style-type: none"> <li><i>The design of indirect light shall not affect the existing OGA Dimensions, Design and performance of the Type-L Fitting.</i></li> <li><i>Separate driver for indirect light shall be provided.</i></li> <li><i>No electrolytic capacitor shall be used in complete luminaire design.</i></li> <li><i>The colour of the Housing and mounting screw head shall match to the interior panel colour shade to <b>RAL 090 9005</b></i></li> <li><i>Driver enclosure shall be of Aluminium.</i></li> <li><i><b>Polycarbonate material, Connectors and cables, rubber components, printed circuit board, powder coating paint</b> shall be HL-3 compliant to EN 45545.</i></li> </ol> </li> <li>LED Light fitting for Doorway/Gangway, similar to Type-N to drawing no: LW76099, alt.-b (9W) – Qty. <b>-07 nos.</b> <ol style="list-style-type: none"> <li><i>The colour of the Housing and mounting screw head</i></li> </ol> </li> </ol>	1 set/ <b>LWACCN/PP2</b>

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	<p><i>shall match to the interior panel colour shade to <b>RAL 090 9005</b></i></p> <p><i>(ii) No electrolytic capacitor shall be used in complete luminaire design.</i></p> <p><i>(iii) Driver enclosure shall be of Aluminium.</i></p> <p><i>(iv) <b>Polycarbonate material, Connectors and cables, rubber components, printed circuit board, powder coating paint</b> shall be HL-3 compliant to EN 45545</i></p> <p>4. LED Light fitting for Night light with berth indication similar to Type-E with <b>Warm White Colour</b> (1 W Max.) to Drg. No. ICF/STD 7-6-053, alt-`c', Col-VIII (or) latest – Qty -<b>1 Set</b></p> <p><i>(i) The colour of the Housing and mounting screw head shall match to the interior panel colour shade to <b>RAL 090 9005</b></i></p> <p><i>(ii) The mounting hardwares shall not be visible.</i></p> <p><i>(iii) No electrolytic capacitor shall be used in complete luminaire design.</i></p> <p><i>(iv) <b>Polycarbonate material, Connectors and cables, rubber components, printed circuit board, powder coating paint</b> shall be HL-3 compliant to EN 45545</i></p> <p><i>(v) Driver enclosure shall be of Aluminium.</i></p> <p>5. LED Light fitting for Toilet occupied indication similar to Type-H1 (Without Hood) to Drg. No LW76097, alt.-a with signage as per ISO 7001, 24 V DC, 1W. - Qty: 4 nos.</p> <p><i>(i) No electrolytic capacitor shall be used in complete luminaire design.</i></p> <p><i>(ii) <b>Polycarbonate material, Connectors and cables, rubber components, printed circuit board, powder coating paint</b> shall be HL-3 compliant to EN 45545</i></p>	
<b>B.</b>	<p>Set of LED Light Fitting generally conforming to RDSO specification no. RDSO/PE/SPEC/TL/0091, Rev-1 for <b>LWSCWAC/PP2</b> Amrit Bharat Ver.3.0 coaches.</p> <p>1. LED Light fitting for Corridor (Length of 1785mm), 18W to Drg. No. ICF/STD 7-6- 059, alt-d (or) latest– <b>Qty -09 nos.</b></p> <p><i>(i) Length of Item-11 (joining diffuser) of drg. No: ICF/STD-7-6-059,alt.-d shall be suitably modified to cover the area in between adjacent light fittings.</i></p> <p><i>(ii) It shall be noted that all 09 nos. of LED light fittings will be mounted in the aluminium extrusion provided by the purchaser and at the ends suitable dummy diffuser shall be provided to cover the gaps between end cover and light fitting.</i></p>	<p><b>1 set/ LWSCWAC/ PP2</b></p>

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	<p>(iii) <b>Polycarbonate material, Connectors and cables, rubber components, printed circuit board, powder coating paint</b> shall be HL-3 compliant to EN 45545</p> <p>(iv) No electrolytic capacitor shall be used in complete luminaire design.</p> <p>(v) Driver enclosure shall be of Aluminium.</p> <p>2. LED Light fitting for Cabin similar to Type-L to drawing no: LW76090, alt.-b with direct light (18 W) and <b>indirect light (3 W) with warm white colour</b>. - Qty -09 nos.</p> <p>(i) The design of indirect light shall not affect the existing OGA Dimensions, Design and performance of the Type-L Fitting.</p> <p>(ii) Separate driver for indirect light shall be provided.</p> <p>(iii) No electrolytic capacitor shall be used in complete luminaire design.</p> <p>(iv) The colour of the Housing and mounting screw head shall match to the interior panel colour shade to <b>RAL 090 9005</b></p> <p>(v) Driver enclosure shall be of Aluminium.</p> <p>(vi) <b>Polycarbonate material, Connectors and cables, rubber components, printed circuit board, powder coating paint</b> shall be HL-3 compliant to EN 45545</p> <p>3. LED Light fitting for Doorway/Gangway, similar to Type-N to drawing no: LW76099, alt.-b (9W) – Qty -06 nos.</p> <p>(i) The colour of the Housing and mounting screw head shall match to the interior panel colour shade to <b>RAL 090 9005</b></p> <p>(ii) No electrolytic capacitor shall be used in complete luminaire design.</p> <p>(iii) Driver enclosure shall be of Aluminium.</p> <p>(iv) <b>Polycarbonate material, Connectors and cables, rubber components, printed circuit board, powder coating paint</b> shall be HL-3 compliant to EN 45545</p> <p>4. LED Light fitting for Night light with berth indication similar to Type-E with Warm White Colour (1 W) to Drg. No. ICF/STD 7-6-053, alt-`c`, Col-IX (or) latest – Qty -1 Set.</p> <p>(i) The colour of the Housing and mounting screw head shall match to the interior panel colour shade to <b>RAL 090 9005</b></p> <p>(ii) The mounting hardwares shall not visible.</p> <p>(iii) No electrolytic capacitor shall be used in complete luminaire design.</p> <p>(iv) <b>Polycarbonate material, Connectors and cables,</b></p>	
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	<p><b><i>rubber components, printed circuit board, powder coating paint shall be HL-3 compliant to EN 45545</i></b></p> <p><i>(v) Driver enclosure shall be of Aluminium.</i></p> <p>5. LED Light fitting for Toilet occupied indication, similar to Type-H1 <b><i>(Without Hood)</i></b> to Drg. No LW76097, alt.-a <b><i>with signage as per ISO 7001, 24 V DC,1W. - Qty: 4 nos.</i></b></p> <p><i>(i) No electrolytic capacitor shall be used in complete luminaire design.</i></p> <p><i>(ii) <b>Polycarbonate material, Connectors and cables, rubber components, printed circuit board, powder coating paint shall be HL-3 compliant to EN 45545</b></i></p> <p>6. LED Light fitting for Berth Reading Light, similar to Type-F1 to drawing no:LW76093, alt.-a - <b>Qty-09 nos.</b></p> <p><i>(i) The colour of the Housing and mounting screw head shall match to the interior panel colour shade to <b>RAL 090 9005</b></i></p> <p><i>(ii) No electrolytic capacitor shall be used in complete luminaire design.</i></p> <p><i>(iii) <b>Polycarbonate material, Connectors and cables, rubber components, printed circuit board, powder coating paint shall be HL-3 compliant to EN 45545.</b></i></p> <p>7. LED Light fitting for Berth Reading Light, similar to Type-F2 to drawing no:LW76094 , alt.-a - <b>Qty-26 nos.</b></p> <p><i>(i) The colour of the Housing and mounting screw head shall match to the interior panel colour shade to <b>RAL 090 9005</b></i></p> <p><i>(ii) No electrolytic capacitor shall be used in complete luminaire design.</i></p> <p><i>(iii) <b>Polycarbonate material, Connectors and cables, rubber components, printed circuit board, powder coating paint shall be HL-3 compliant to EN 45545.</b></i></p> <p>8. LED Light fitting for Berth Reading Light, similar to Type-F3 to drawing no: LW76095, alt.-a - <b>Qty-09 nos.</b></p> <p><i>(i) The colour of the Housing and mounting screw head shall match to the interior panel colour shade to <b>RAL 090 9005</b></i></p> <p><i>(ii) No electrolytic capacitor shall be used in complete luminaire design.</i></p> <p><i>(iii) <b>Polycarbonate material, Connectors and cables, rubber components, printed circuit board, powder coating paint shall be HL-3 compliant to EN 45545.</b></i></p>	
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	<p>9. LED Light fitting for Berth Reading Light, similar to Type-F4 to drawing no: LW76096, alt.-a -<b>Qty-08 nos.</b></p> <p>(i) <i>The colour of the Housing and mounting screw head shall match to the interior panel colour shade to <b>RAL 090 9005</b></i></p> <p>(ii) <i>No electrolytic capacitor shall be used in complete luminaire design.</i></p> <p>(iii) <b>Polycarbonate material, Connectors and cables, rubber components, printed circuit board, powder coating paint shall be HL-3 compliant to EN 45545.</b></p>	
C.	<p>Set of LED Light Fitting generally conforming to RDSO specification no. RDSO/PE/SPEC/TL/0091, Rev-1 for <b>LWFAC/PP2</b> Amrit Bharat Ver.3.0 coaches.</p> <p>1. LED Light fitting for Cabin similar to Type-L to drawing no: LW76090, alt.-b with direct light (18 W) and <i>indirect light (3 W)with warm white colour</i> - Qty -08 nos.</p> <p>(i) <i>The design of indirect light shall not affect the existing OGA Dimensions, Design and performance of the Type-L Fitting.</i></p> <p>(ii) <i>Separate driver for indirect light shall be provided.</i></p> <p>(iii) <i>No electrolytic capacitor shall be used in complete luminaire design.</i></p> <p>(iv) <i>The colour of the Housing and mounting screw head shall match to the interior panel colour shade to <b>RAL 090 9005</b></i></p> <p>(v) <i>Driver enclosure shall be of Aluminium.</i></p> <p>(vi) <b>Polycarbonate material, Connectors and cables, rubber components, printed circuit board, powder coating paint shall be HL-3 compliant to EN 45545.</b></p> <p>2. LED Light fitting for Cabin , similar to Type-M ,9W+1W (Night light warm white colour) to drawing no: LW76091, alt.-b - Qty - <b>13 nos.</b></p> <p>(i) <i>No electrolytic capacitor shall be used in complete luminaire design.</i></p> <p>(ii) <i>The colour of the Housing and mounting screw head shall match to the interior panel colour shade to <b>RAL 090 9005</b></i></p> <p>(iii) <i>Driver enclosure shall be of Aluminium.</i></p> <p>(iv) <b>Polycarbonate material, Connectors and cables, rubber components, powder coating paint shall be</b></p>	<p><b>1 set/ LWFAC/PP2</b></p>

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	<p><i>HL-3 compliant to EN 45545.</i></p> <p>3. LED Light fitting for Doorway/Gangway, similar to Type-N to drawing no: LW76099, alt.-b (9W) – <b>Qty -11 nos.</b></p> <p>(i) <i>No electrolytic capacitor shall be used in complete luminaire design.</i></p> <p>(ii) <i>The colour of the Housing and mounting screw head shall match to the interior panel colour shade to <b>RAL 090 9005</b></i></p> <p>(iii) <i>Driver enclosure shall be of Aluminium.</i></p> <p>(iv) <b>Polycarbonate material, Connectors and cables, rubber components, powder coating paint shall be HL-3 compliant to EN 45545.</b></p> <p>4. LED Light fitting for Toilet occupied indication similar to Type-H1 (With Hood) to Drg. No LW76097 alt.-a with signage as per ISO 7001, 24 V DC,1W. - <b>Qty: 2 nos.</b></p> <p>(i) <i>No electrolytic capacitor shall be used in complete luminaire design.</i></p> <p>(ii) <i>The colour of the Housing and mounting screw head shall match to the interior panel colour shade to <b>RAL 090 9005</b></i></p> <p>(iii) <b>Polycarbonate material, Connectors and cables, rubber components, powder coating paint shall be HL-3 compliant to EN 45545.</b></p> <p>5. LED Light fitting for Berth Reading Light, similar to Type-F2 to drawing no:LW76094 , alt.-a -<b>Qty-12 nos.</b></p> <p>(i) <i>The colour of the Housing and mounting screw head shall match to the interior panel colour shade to <b>RAL 090 9005</b></i></p> <p>(ii) <i>No electrolytic capacitor shall be used in complete luminaire design.</i></p> <p>(iii) <b>Polycarbonate material, Connectors and cables, rubber components, printed circuit board, powder coating paint shall be HL-3 compliant to EN 45545.</b></p> <p>6. LED Light fitting for Berth Reading Light, similar to Type-F3 to drawing no:LW76095, alt.-a -<b>Qty-07 nos.</b></p> <p>(i) <i>The colour of the Housing and mounting screw head shall match to the interior panel colour shade to <b>RAL 090 9005</b></i></p> <p>(ii) <i>No electrolytic capacitor shall be used in complete</i></p>	
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	<p><i>luminaire design.</i></p> <p>(iii) <b>Polycarbonate material, Connectors and cables, rubber components, printed circuit board, powder coating paint shall be HL-3 compliant to EN 45545.</b></p> <p>7. LED Light fitting for Berth Reading Light, similar to Type-F4 to drawing no:LW76096, alt.-a -<b>Qty-05 nos.</b></p> <p>(i) <i>The colour of the Housing and mounting screw head shall match to the interior panel colour shade to <b>RAL 090 9005</b></i></p> <p>(ii) <i>No electrolytic capacitor shall be used in complete luminaire design.</i></p> <p>(iii) <b>Polycarbonate material, Connectors and cables, rubber components, printed circuit board, powder coating paint shall be HL-3 compliant to EN 45545.</b></p>	
D.	<p>Set of LED Light Fitting generally conforming to RDSO specification no. RDSO/PE/SPEC/TL/0091, Rev-1 for <b>LWCBAC/PP2</b> Amrit Bharat Ver.3.0 coaches.</p> <p>1. LED Light fitting for Cabin similar to Type-L to drawing no: LW76090, alt.-b with direct (18 W) and Qty -<b>09 nos.</b></p> <p>(i) <i>No electrolytic capacitor shall be used in complete luminaire design.</i></p> <p>(ii) <i>The colour of the Housing and mounting screw head shall match to the interior panel colour shade to <b>RAL 090 9005</b></i></p> <p>(iii) <i>Driver enclosure shall be of Aluminium.</i></p> <p>(iv) <b>Polycarbonate material, Connectors and cables, rubber components, printed circuit board, powder coating paint shall be HL-3 compliant to EN 45545.</b></p> <p>2. LED Light fitting for Cabin similar to Type-M (9W+1W) (Night light warm white colour) to drawing no: LW76091, alt.-b - Qty - <b>09 nos.</b></p> <p>(i) <i>No electrolytic capacitor shall be used in complete luminaire design.</i></p> <p>(ii) <i>The colour of the Housing and mounting screw head shall match to the interior panel colour shade to <b>RAL 090 9005</b></i></p> <p>(iii) <i>Driver enclosure shall be of Aluminium.</i></p> <p>(iv) <b>Polycarbonate material, Connectors and cables, rubber components, printed circuit board, powder coating paint shall be HL-3 compliant to EN 45545.</b></p>	<p>1 set / <b>LWCBAC/PP2</b></p>

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	<p>3. LED Light fitting for Doorway/Gangway, similar to Type-N to drawing no: LW76099 alt.-b (9W) – <b>Qty -06 nos.</b></p> <p>(i) <i>No electrolytic capacitor shall be used in complete luminaire design.</i></p> <p>(ii) <i>The colour of the Housing and mounting screw head shall match to the interior panel colour shade to <b>RAL 090 9005</b></i></p> <p>(iii) <i>Driver enclosure shall be of Aluminium.</i></p> <p><b>Polycarbonate material, Connectors and cables, rubber components, printed circuit board, powder coating paint shall be HL-3 compliant to EN 45545.</b></p> <p>4. LED Light fitting for Toilet occupied indication similar to Type-H1 (With Hood) to Drg. No LW76097 alt.-a <b>with signage as per ISO 7001</b>, 24 V DC, 1W. - <b>Qty: 01 no.</b></p> <p>(i) <i>No electrolytic capacitor shall be used in complete luminaire design.</i></p> <p>(ii) <i>The colour of the Housing and mounting screw head shall match to the interior panel colour shade to <b>RAL 090 9005</b></i></p> <p>(iii) <b>Polycarbonate material, Connectors and cables, rubber components, powder coating paint shall be HL-3 compliant to EN 45545.</b></p>	
E.	<p>Set of LED Light Fitting generally conforming to RDSO specification no. RDSO/PE/SPEC/TL/0091, Rev-1 for <b>LWLRRM/PP2</b> for Amrit Bharat Ver.3.0 coaches.</p> <p>1. LED Light fitting, similar to Type-N to drawing no: LW76099, alt.-b (9W) – <b>Qty -16 nos.</b></p> <p>(i) <i>No electrolytic capacitor shall be used in complete luminaire design.</i></p> <p>(ii) <i>The colour of the Housing and mounting screw head shall match to the interior panel colour shade to <b>RAL 090 9005</b></i></p> <p>(iii) <i>Driver enclosure shall be of Aluminium.</i></p> <p>(iv) <b>Polycarbonate material, Connectors and cables, rubber components, printed circuit board, powder coating paint shall be HL-3 compliant to EN 45545.</b></p> <p>2. LED Light fitting for luggage room, similar to Type-J2 (9W) to drawing no: CC76457 , alt.-c– <b>Qty -04 nos.</b></p> <p>(i) <i>No electrolytic capacitor shall be used in complete luminaire design.</i></p> <p>(ii) <b>Polycarbonate material, Connectors and cables, rubber components, printed circuit board, powder coating paint shall be HL-3 compliant to EN 45545.</b></p>	<p><b>1 set/ LWLRRM/PP2</b></p>