

## EXPRESSION OF INTEREST (EOI)

<b>Project</b>	CERES
<b>Company / Client</b>	Perdaman Chemicals and Fertilisers Pty Ltd
<b>Material Requisition Number</b>	0000-EA-E-40208
<b>Package Title</b>	<b>LIGHTING MATERIALS AND ACCESSORIES</b>
<b>1. SUBMISSION PROCEDURE</b>	
<b>EOI Instructions</b>	<p>Supplier(s) are invited to express interest by registering on ICN Gateway where competency and previous positive experiences of similar supply of goods / services can be demonstrated.</p> <p>When submitting interest registrants will be asked to complete an expression of interest document. The registrant's response will form their Expression of Interest (EOI) for material and/or services.</p> <p>Suppliers will only be considered for Prequalification should they satisfy stated criteria, including but not limited to Health, Safety &amp; Environmental Management, Quality management, financial standing, relevant experience and availability.</p>
<b>EOI Closing Date</b>	Please submit by close of business on <b>31/12/2023</b>
<b>Returnable Schedules</b>	Where the EOI calls for any Returnable Schedules, please ensure all schedules are submitted.
<b>Contact</b>	<p>All initial enquiries should be made through the Industry Capability Network Western Australia (ICNWA).</p> <p>Andie Pfaff <a href="mailto:Andie.Pfaff@icnwa.org.au">Andie.Pfaff@icnwa.org.au</a> +61 (08) 9365 7442</p>
<b>URL</b>	<p>For more information regarding the Perdaman, refer</p> <ul style="list-style-type: none"><li>• <a href="https://www.perdamanindustries.com.au/scjv/">https://www.perdamanindustries.com.au/scjv/</a></li></ul>
<b>2. INDICATIVE SCOPE OF WORK</b>	

<p><b>Package Description</b></p>	<p><b>Overview</b></p> <p>Saipem Australia Pty Ltd and Clough Projects Australia Pty Ltd Joint Venture (herein referred to as the “CONTRACTOR”) has reached an agreement with Perdaman Chemicals and Fertilisers Pty Ltd (herein referred to as the “OWNER”) for the Engineering, Procurement, Construction and Commissioning of the PROJECT CERES located in Burrup Strategic Industrial Area, Burrup Peninsula, Western Australia.</p> <p>Perdaman Chemicals and Fertilisers Pty Ltd (OWNER) is focused on the development of Perdaman - Project CERES which shall be the world’s largest gas stream ammonia-urea plant with a production capacity of 2.14 MMTPA granular urea.</p>
	<p><b>General Scope of Supply / Services</b></p> <p>Supplies shall include, but not be limited to engineering, procurement, manufacture, testing, packaging and shipment to project site of all Lighting Materials complete with all accessories as required in accordance with specification and Scope of Supply as defined in ATTACHMENT-1.</p> <p>Further inclusions consist of provision of management, design, calculation, procurement, fabrication, testing and certification to satisfy the scope of supply.</p> <p>The following must be provided:</p> <ul style="list-style-type: none"> <li>• Technical deviations list</li> <li>• Special tools list</li> <li>• Schedule of rates</li> <li>• Spares list</li> <li>• Quality assurance</li> </ul> <p>Responsibilities will include <i>inter alia</i>:</p> <ul style="list-style-type: none"> <li>• The VENDOR shall assure responsibility for the entire package, including each sub-supply and components indicated in this specification.</li> <li>• Project management, reporting, attending meetings, participation in risk assessment workshops.</li> <li>• Delivering work in a safe manner and to the required standards</li> <li>• Whole Guarantee and responsibility for assembling and good operation of the complete unit.</li> </ul>
<p><b>Standards</b></p>	<p>Compliance with National, International and Industry Standards, Australian and WA Regulatory requirements.</p>
<p><b>Key Dates</b></p>	<p>Tender planned to be issued during January 2024</p>
<p><b>Point of Delivery</b></p>	<ol style="list-style-type: none"> <li>1. Module Fabrication Yard, Chennai, India and</li> <li>2. Perdaman Project Site, Western Australia</li> </ol>

**3. RETURNABLE DOCUMENTS****List of Returnable Schedules**

List of experience on similar equipment supply projects

**4. DISCLAIMER**

This Expression of Interest to gain an insight into the capabilities of potential suppliers and/or service providers and not a Tender Invitation or offer - the schedule and content of this work is subject to change pending project demand and timelines.

**ATTACHMENT I  
SCOPE OF SUPPLY & SERVICES**

SL.NO	ITEM DESCRIPTION	QUANTITY	UOM
<b>A. Light Fixtures</b>			
1	Lighting fixture linear LED or equivalent (short length 750mm), 25W, IP65, GRP, min 2800 lumens at 3000K CCT, complete with all gear & ceiling mount accessories along with IP 65 Cable gland nickel plated brass with GRP corrosion guard, IP 65 Blank plug, terminal suitable for 4 Sq.mm armoured cable & fixture suitable for no sky glow and light spill.	1	Nos
2	Lighting fixture linear LED or equivalent (short length 750mm), 25W, IP65, GRP, min 2800 lumens at CCT 3000K, complete with all gear & bracket mount accessories along with IP 65 Cable gland nickel plated brass with GRP corrosion guard, IP 65 Blank plug, terminal suitable for 4 Sq.mm armoured cable & fixture suitable for no sky glow and light spill.	1	Nos
3	Lighting fixture linear LED or equivalent (short length 750mm), 25W, IP65, GRP, min 2800 lumens at CCT 3000K, complete with all gear & Pole mount accessories along with IP 65 Cable gland nickel plated brass with GRP corrosion guard, IP 65 Blank plug, terminal suitable for 4 Sq.mm armoured cable & fixture suitable for no sky glow and light spill.	1	Nos
4	Lighting fixture linear LED or equivalent, ANZEx/IECEX certified (short length 750mm), 25W, Ex ec/Ex de/Ex ed, IIC, T3, IP65, GRP, min 2800 lumens at CCT 3000K, complete with all gear & ceiling mount accessories along with Cable gland (IP and Ex rating of the fixture) nickel plated brass with GRP corrosion guard, Blank plug (IP and Ex rating of the fixture) terminal suitable for 4 Sq.mm armoured cable & fixture suitable for no sky glow and light spill.	1	Nos
5	Lighting fixture linear LED or equivalent, ANZEx/IECEX certified (short length 750mm), 25W, Ex ec/Ex de/Ex ed, IIC, T3, IP65, GRP, min 2800 lumens at CCT 3000K, complete with all gear & bracket mount accessories along with Cable gland (IP and Ex rating of the fixture) nickel plated brass with GRP corrosion guard, Blank plug (IP and Ex rating of the fixture) terminal suitable for 4 Sq.mm armoured cable & fixture suitable for no sky glow and light spill.	1	Nos
6	Lighting fixture linear LED or equivalent, ANZEx/IECEX certified (short length 750mm), 25W, Ex ec/Ex de/Ex ed, IIC, T3, IP65, GRP, min 2800 lumens at CCT 3000K, complete with all gear & Pole mount accessories along with Cable gland (IP and Ex rating of the fixture) nickel plated brass with GRP corrosion guard, Blank plug (IP and Ex rating of the fixture) terminal suitable for 4 Sq.mm armoured cable & fixture suitable for no sky glow and light spill.	1	Nos
7	Lighting fixture linear LED or equivalent (short length 750mm), 25W, IP65, GRP, min 2800 lumens at CCT 3000K and Emergency lumens not less than 25% of 2800 lumens, complete with all gear & ceiling mount accessories along with IP 65 Cable gland nickel plated brass with GRP corrosion guard, IP 65 Blank plug, terminal suitable for 4 Sq.mm armoured cable & fixture suitable for no sky glow and light spill with inbuilt battery backup time for 120 min.	1	Nos
8	Lighting fixture linear LED or equivalent (short length 750mm), 25W, IP65, GRP, min 2800 lumens at CCT 3000K and Emergency lumens not less than 25% of 2800 lumens, complete with all gear & bracket mount accessories along with IP 65 Cable gland nickel plated brass with GRP corrosion guard, IP 65 Blank plug, terminal suitable for 4 Sq.mm armoured cable & fixture suitable for no sky glow and light spill with inbuilt battery backup time for 120 min.	1	Nos
9	Lighting fixture linear LED or equivalent (short length 750mm), 25W, IP65, GRP, min 2800 lumens at CCT 3000K and Emergency lumens not less than 25% of 2800 lumens, complete with all gear & Pole mount accessories along with IP 65 Cable gland nickel plated brass with GRP corrosion guard, IP 65 Blank plug, terminal suitable for 4 Sq.mm armoured cable & fixture suitable for no sky glow and light spill with inbuilt battery backup time for 120 min.	1	Nos
10	Lighting fixture linear LED or equivalent, ANZEx/IECEX certified (short length 750mm), 25W, Ex ec/Ex de/Ex ed, IIC, T3, IP65, GRP, min 2800 lumens at CCT 3000K and Emergency lumens not less than 25% of 2800 lumens, complete with all gear & ceiling mount accessories along with Cable gland (IP and Ex rating of the fixture) nickel plated brass with GRP corrosion guard, Blank plug (IP and Ex rating of the fixture) terminal suitable for 4 Sq.mm armoured cable & fixture suitable for no sky glow and light spill with inbuilt battery backup time for 120 min.	1	Nos
11	Lighting fixture linear LED or equivalent, ANZEx/IECEX certified (short length 750mm), 25W, Ex ec/Ex de/Ex ed, IIC, T3, IP65, GRP, min 2800 lumens at CCT 3000K and Emergency lumens not less than 25% of 2800 lumens, complete with all gear & bracket mount accessories along with Cable gland (IP and Ex rating of the fixture) nickel plated brass with GRP corrosion guard, Blank plug (IP and Ex rating of the fixture) terminal suitable for 4 Sq.mm armoured cable & fixture suitable for no sky glow and light spill with inbuilt battery backup time for 120 min.	1	Nos
12	Lighting fixture linear LED or equivalent, ANZEx/IECEX certified (short length 750mm), 25W, Ex ec/Ex de/Ex ed, IIC, T3, IP65, GRP, min 2800 lumens at CCT 3000K and Emergency lumens not less than 25% of 2800 lumens, complete with all gear & Pole mount accessories along with Cable gland (IP and Ex rating of the fixture) nickel plated brass with GRP corrosion guard, Blank plug (IP and Ex rating of the fixture) terminal suitable for 4 Sq.mm armoured cable & fixture suitable for no sky glow and light spill with inbuilt battery backup time for 120 min.	1	Nos
13	Lighting fixture linear LED or equivalent, 50W, IP65, GRP, min 5850 lumens at 3000K CCT, complete with all gear & ceiling mount accessories along with IP 65 Cable gland nickel plated brass with GRP corrosion guard, IP 65 Blank plug, terminal suitable for 4 Sq.mm armoured cable & fixture suitable for no sky glow and light spill.	197	Nos
14	Lighting fixture linear LED or equivalent, 50W, IP65, GRP, min 5850 lumens at CCT 3000K, complete with all gear & bracket mount accessories along with IP 65 Cable gland nickel plated brass with GRP corrosion guard, IP 65 Blank plug, terminal suitable for 4 Sq.mm armoured cable & fixture suitable for no sky glow and light spill.	267	Nos
15	Lighting fixture linear LED or equivalent, 50W, IP65, GRP, min 5850 lumens at CCT 3000K, complete with all gear & Pole mount accessories along with IP 65 Cable gland nickel plated brass with GRP corrosion guard, IP 65 Blank plug, terminal suitable for 4 Sq.mm armoured cable & fixture suitable for no sky glow and light spill.	2,220	Nos

**ATTACHMENT I  
SCOPE OF SUPPLY & SERVICES**

SL.NO	ITEM DESCRIPTION	QUANTITY	UOM
16	Lighting fixture linear LED or equivalent, ANZEx/IECEX certified, 50W, Ex ec/Ex de/Ex ed, IIC, T3, IP65, GRP, min 5850 lumens at CCT 3000K, complete with all gear & ceiling mount accessories along with Cable gland (IP and Ex rating of the fixture) nickel plated brass with GRP corrosion guard, Blank plug (IP and Ex rating of the fixture) terminal suitable for 4 Sq.mm armoured cable & fixture suitable for no sky glow and light spill.	48	Nos
17	Lighting fixture linear LED or equivalent, ANZEx/IECEX certified, 50W, Ex ec/Ex de/Ex ed, IIC, T3, IP65, GRP, min 5850 lumens at CCT 3000K, complete with all gear & bracket mount accessories along with Cable gland (IP and Ex rating of the fixture) nickel plated brass with GRP corrosion guard, Blank plug (IP and Ex rating of the fixture) terminal suitable for 4 Sq.mm armoured cable & fixture suitable for no sky glow and light spill.	59	Nos
18	Lighting fixture linear LED or equivalent, ANZEx/IECEX certified, 50W, Ex ec/Ex de/Ex ed, IIC, T3, IP65, GRP, min 5850 lumens at CCT 3000K, complete with all gear & Pole mount accessories along with Cable gland (IP and Ex rating of the fixture) nickel plated brass with GRP corrosion guard, Blank plug (IP and Ex rating of the fixture) terminal suitable for 4 Sq.mm armoured cable & fixture suitable for no sky glow and light spill.	483	Nos
19	Lighting fixture linear LED or equivalent, 50W, IP65, GRP, min 5850 lumens at 3000K and Emergency lumens not less than 25% of 5850 lumens CCT, complete with all gear & ceiling mount accessories along with IP 65 Cable gland nickel plated brass with GRP corrosion guard, IP 65 Blank plug, terminal suitable for 4 Sq.mm armoured cable & fixture suitable for no sky glow and light spill with inbuilt battery backup time for 120 min.	107	Nos
20	Lighting fixture linear LED or equivalent, 50W, IP65, GRP, min 5850 lumens CCT 3000K and Emergency lumens not less than 25% of 5850 lumens, complete with all gear & bracket mount accessories along with IP65 Cable gland nickel plated brass with GRP corrosion guard, IP 65 Blank plug, terminal suitable for 4 Sq.mm armoured cable & fixture suitable for no sky glow and light spill with inbuilt battery backup time for 120 min.	144	Nos
21	Lighting fixture linear LED or equivalent, 50W, IP65, GRP, min 5850 lumens CCT 3000K and Emergency lumens not less than 25% of 5850 lumens, complete with all gear & Pole mount accessories along with IP65 Cable gland nickel plated brass with GRP corrosion guard, IP 65 Blank plug, terminal suitable for 4 Sq.mm armoured cable & fixture suitable for no sky glow and light spill with inbuilt battery backup time for 120 min.	1,197	Nos
22	Lighting fixture linear LED or equivalent, ANZEx/IECEX certified, 50W, Ex ec/Ex de/Ex ed, IIC, T3, IP65, GRP, min 5850 lumens at CCT 3000K and Emergency lumens not less than 25% of 5850 lumens, complete with all gear & ceiling mount accessories along with Cable gland (IP and Ex rating of the fixture) nickel plated brass with GRP corrosion guard, Blank plug (IP and Ex rating of the fixture) terminal suitable for 4 Sq.mm armoured cable & fixture suitable for no sky glow and light spill with inbuilt battery backup time for 120 min.	26	Nos
23	Lighting fixture linear LED or equivalent, ANZEx/IECEX certified, 50W, Ex ec/Ex de/Ex ed, IIC, T3, IP65, GRP, min 5850 lumens at CCT 3000K and Emergency lumens not less than 25% of 5850 lumens, complete with all gear & bracket mount accessories along with Cable gland (IP and Ex rating of the fixture) nickel plated brass with GRP corrosion guard, Blank plug (IP and Ex rating of the fixture) terminal suitable for 4 Sq.mm armoured cable & fixture suitable for no sky glow and light spill with inbuilt battery backup time for 120 min.	32	Nos
24	Lighting fixture linear LED or equivalent, ANZEx/IECEX certified, 50W, Ex ec/Ex de/Ex ed, IIC, T3, IP65, GRP, min 5850 lumens at CCT 3000K and Emergency lumens not less than 25% of 5850 lumens, complete with all gear & Pole mount accessories along with Cable gland (IP and Ex rating of the fixture) nickel plated brass with GRP corrosion guard, Blank plug (IP and Ex rating of the fixture) terminal suitable for 4 Sq.mm armoured cable & fixture suitable for no sky glow and light spill with inbuilt battery backup time for 120 min.	260	Nos
25	Lighting fixture linear LED or equivalent, 60W, IP65, GRP, min 6800 lumens at 3000K CCT, complete with all gear & ceiling mount accessories along with IP 65 Cable gland nickel plated brass with GRP corrosion guard, IP 65 Blank plug, terminal suitable for 4 Sq.mm armoured cable & fixture suitable for no sky glow and light spill.	1	Nos
26	Lighting fixture linear LED or equivalent, 60W, IP65, GRP, min 6800 lumens at CCT 3000K, complete with all gear & bracket mount accessories along with IP 65 Cable gland nickel plated brass with GRP corrosion guard, IP 65 Blank plug, terminal suitable for 4 Sq.mm armoured cable & fixture suitable for no sky glow and light spill.	1	Nos
27	Lighting fixture linear LED or equivalent, 60W, IP65, GRP, min 6800 lumens at CCT 3000K complete with all gear & Pole mount accessories along with IP 65 Cable gland nickel plated brass with GRP corrosion guard, IP 65 Blank plug, terminal suitable for 4 Sq.mm armoured cable & fixture suitable for no sky glow and light spill.	1	Nos
28	Lighting fixture linear LED or equivalent, ANZEx/IECEX certified, 60W, Ex ec/Ex de/Ex ed, IIC, T3, IP65, GRP, min 6800 lumens at CCT 3000K, complete with all gear & ceiling mount accessories along with Cable gland (IP and Ex rating of the fixture) nickel plated brass with GRP corrosion guard, Blank plug (IP and Ex rating of the fixture) terminal suitable for 4 Sq.mm armoured cable & fixture suitable for no sky glow and light spill.	1	Nos
29	Lighting fixture linear LED or equivalent, ANZEx/IECEX certified, 60W, Ex ec/Ex de/Ex ed, IIC, T3, IP65, GRP, min 6800 lumens at CCT 3000K, complete with all gear & bracket mount accessories along with Cable gland (IP and Ex rating of the fixture) nickel plated brass with GRP corrosion guard, Blank plug (IP and Ex rating of the fixture) terminal suitable for 4 Sq.mm armoured cable & fixture suitable for no sky glow and light spill.	1	Nos

**ATTACHMENT I  
SCOPE OF SUPPLY & SERVICES**

SL.NO	ITEM DESCRIPTION	QUANTITY	UOM
30	Lighting fixture linear LED or equivalent, ANZEx/IECEX certified, 60W, Ex ec/Ex de/Ex ed, IIC, T3, IP65, GRP, min 6800 lumens at CCT 3000K, complete with all gear & Pole mount accessories along with Cable gland (IP and Ex rating of the fixture) nickel plated brass with GRP corrosion guard, Blank plug (IP and Ex rating of the fixture) terminal suitable for 4 Sq.mm armoured cable & fixture suitable for no sky glow and light spill.	1	Nos
31	Lighting fixture linear LED or equivalent, 60W, IP65, GRP, min 6800 lumens at CCT 3000K and Emergency lumens not less than 25% of 6800 lumens , complete with all gear & ceiling mount accessories along with IP 65 Cable gland nickel plated brass with GRP corrosion guard, IP 65 Blank plug, terminal suitable for 4 Sq.mm armoured cable & fixture suitable for no sky glow and light spill with inbuilt battery backup time for 120 min.	1	Nos
32	Lighting fixture linear LED or equivalent, 60W, IP65, GRP, min 6800 lumens at CCT 3000K and Emergency lumens not less than 25% of 6800 lumens, complete with all gear & bracket mount accessories along with IP 65 Cable gland nickel plated brass with GRP corrosion guard, IP 65 Blank plug, terminal suitable for 4 Sq.mm armoured cable & fixture suitable for no sky glow and light spill with inbuilt battery backup time for 120 min.	1	Nos
33	Lighting fixture linear LED or equivalent, 60W, IP65, GRP, min 6800 lumens at CCT 3000K and Emergency lumens not less than 25% of 6800 lumens, complete with all gear & Pole mount accessories along with IP 65 Cable gland nickel plated brass with GRP corrosion guard, IP 65 Blank plug, terminal suitable for 4 Sq.mm armoured cable & fixture suitable for no sky glow and light spill with inbuilt battery backup time for 120 min.	1	Nos
34	Lighting fixture linear LED or equivalent, ANZEx/IECEX certified, 60W, Ex ec/Ex de/Ex ed, IIC, T3, IP65, GRP, min 6800 lumens at CCT 3000K and Emergency lumens not less than 25% of 6800 lumens, complete with all gear & ceiling mount accessories along with Cable gland (IP and Ex rating of the fixture) nickel plated brass with GRP corrosion guard, Blank plug (IP and Ex rating of the fixture) terminal suitable for 4 Sq.mm armoured cable & fixture suitable for no sky glow and light spill with inbuilt battery backup time for 120 min.	1	Nos
35	Lighting fixture linear LED or equivalent, ANZEx/IECEX certified, 60W, Ex ec/Ex de/Ex ed, IIC, T3, IP65, GRP, min 6800 lumens at CCT 3000K and Emergency lumens not less than 25% of 6800 lumens, complete with all gear & bracket mount accessories along with Cable gland (IP and Ex rating of the fixture) nickel plated brass with GRP corrosion guard, Blank plug (IP and Ex rating of the fixture) terminal suitable for 4 Sq.mm armoured cable & fixture suitable for no sky glow and light spill with inbuilt battery backup time for 120 min.	1	Nos
36	Lighting fixture linear LED or equivalent, ANZEx/IECEX certified, 60W, Ex ec/Ex de/Ex ed, IIC, T3, IP65, GRP, min 6800 lumens at CCT 3000K and Emergency lumens not less than 25% of 6800 lumens, complete with all gear & Pole mount accessories along with Cable gland (IP and Ex rating of the fixture) nickel plated brass with GRP corrosion guard, Blank plug (IP and Ex rating of the fixture) terminal suitable for 4 Sq.mm armoured cable & fixture suitable for no sky glow and light spill with inbuilt battery backup time for 120 min.	1	Nos
37	Street Lighting, LED Light, 76 W (Typ), ANZEx/IECEX certified, Ex ec/Ex de/Ex ed, IIC, T3, IP65, GRP, amber color with min lumens of 5300 at CCT 2200K, with suitable filters to achieve Turtle friendly environment lighting and complete with all Gear and pole mount (1-1/2") accessories with required optics, terminals suitable for 4mm2 Arm Cable, suitable for no sky glow at night & Dark sky compliant fixture will be preferred	1	Nos
38	Street Lighting, LED Light, 76 W (Typ), ANZEx/IECEX certified, Ex ec/Ex de/Ex ed, IIC, T3, IP65 Aluminum alloy with powder coating, amber color with min lumens of 5300 at CCT 2200K, with suitable filters to achieve Turtle friendly environment lighting and complete with all Gear and pole mount (1-1/2") accessories with required optics, terminals suitable for 4mm2 Arm Cable, suitable for no sky glow at night & Dark sky compliant fixture will be preferred	1	Nos
39	Street Lighting, LED Light, 76 W (Typ), IP65, GRP, amber color with min lumens of 5300 at CCT 2200K, with suitable filters to achieve Turtle friendly environment lighting and complete with all Gear and pole mount (1-1/2") accessories with required optics, terminals suitable for 4mm2 armoured Cable, suitable for no sky glow at night & Dark sky compliant fixture will be preferred	317	Nos
40	Street Lighting, LED Light, 76 W (Typ), IP65, Aluminum alloy with powder coating, amber color with min lumens of 5300 at CCT 2200K, with suitable filters to achieve Turtle friendly environment lighting and complete with all Gear and pole mount (1-1/2") accessories with required optics, terminals suitable for 4mm2 armoured Cable, suitable for no sky glow at night & Dark sky compliant fixture will be preferred	1	Nos
41	Street Lighting, LED Light, 89 W (Typ), IP65, GRP, CCT 2200K, amber color with min lumens of 6850, with suitable filters to achieve Turtle friendly environment lighting and complete with all Gear and pole mount accessories, terminals suitable for 4mm2 armoured Cable, suitable for no sky glow at night & Dark sky compliant fixture will be preferred	1	Nos
42	Street Lighting, LED Light, 89 W (Typ), ANZEx/IECEX certified, Ex ec/Ex de/Ex ed, IIC, T3, IP65, GRP, CCT 2200K, amber color with min lumens of 6850, with suitable filters to achieve Turtle friendly environment lighting and complete with all Gear and pole mount accessories, terminals suitable for 4mm2 armoured Cable, suitable for no sky glow at night & Dark sky compliant fixture will be preferred	1	Nos

**ATTACHMENT I  
SCOPE OF SUPPLY & SERVICES**

SL.NO	ITEM DESCRIPTION	QUANTITY	UOM
43	Flood Lighting, LED Light, 67 W (Typ), ANZEx/IECEX certified, Ex ec/Ex de/Ex ed, IIC, T3, IP65, Aluminum alloy with powder coating, CCT – 3000K, with min lumens of 8700, complete with all Gear and yoke mounting bracket accessories suitable for pole/column mounting, with visor arrangement to avoid upward lighting, Cable gland nickel plated brass, terminals suitable for 4mm2 arm cable.	25	Nos
44	Flood Lighting, LED Light, 67 W (Typ), ANZEx/IECEX certified, Ex ec/Ex de/Ex ed, IIC, T3, IP65, GRP, CCT – 3000K, with min lumens of 8700, complete with all Gear and yoke mounting bracket accessories suitable for pole/column mounting, with visor arrangement to avoid upward lighting, Cable gland nickel plated brass, terminals suitable for 4mm2 arm cable.	1	Nos
45	Flood Lighting, LED Light, 67 W (Typ), IP65, Aluminum alloy with powder coating, CCT – 3000K, with min lumens of 8700, complete with all Gear and yoke mounting bracket accessories suitable for pole/column mounting, with visor arrangement to avoid upward lighting, Cable gland nickel plated brass, terminals suitable for 4mm2 arm cable.	457	Nos
46	Flood Lighting, LED Light, 67 W (Typ), IP65, GRP, CCT – 3000K, with min lumens of 8700, complete with all Gear and yoke mounting bracket accessories suitable for pole/column mounting, with visor arrangement to avoid upward lighting, Cable gland nickel plated brass, terminals suitable for 4mm2 arm cable.	1	Nos
47	Flood Lighting, LED Light, 82 W (Typ), ANZEx/IECEX certified, Ex ec/Ex de/Ex ed, IIC, T3, IP65, Aluminum alloy with powder coating, CCT – 3000K, with min lumens of 10700, complete with all Gear and yoke mounting bracket accessories suitable for pole/column mounting, with visor arrangement to avoid upward lighting, Cable gland nickel plated brass, terminals suitable for 4mm2 arm cable.	1	Nos
48	Flood Lighting, LED Light, 82 W (Typ), IP65, Aluminum alloy with powder coating, CCT – 3000K, with min lumens of 10700, complete with all Gear and yoke mounting bracket accessories suitable for pole/column mounting, with visor arrangement to avoid upward lighting, Cable gland nickel plated brass, terminals suitable for 4mm2 arm cable.	1	Nos
48	Flood Lighting, LED Light, 82 W (Typ), IP65, GRP, CCT – 3000K, with min lumens of 10700, complete with all Gear and yoke mounting bracket accessories suitable for pole/column mounting, with visor arrangement to avoid upward lighting, Cable gland nickel plated brass, terminals suitable for 4mm2 arm cable.	1	Nos
49	Flood Lighting, LED Light, 82 W (Typ), ANZEx/IECEX certified, Ex ec/Ex de/Ex ed, IIC, T3, IP65, GRP, with min lumens of 10700 at 3000K CCT, complete with all Gear and yoke mounting bracket accessories suitable for pole/column mounting, with visor arrangement to avoid upward lighting, Cable gland nickel plated brass, terminals suitable for 4mm2 arm cable.	1	Nos
50	Certified turtle friendly, low mount, shielded type fixture (bollard type or similar), utilizing long wavelength (greater than 560 nanometers) or longer light sources such as amber, orange, and red LEDs, 2200K	1	
<b>B. Lighting Poles</b>			
1	Lighting pole hot dip galvanised, stanchion pole mounting for linear led light fixture, height 2.5 m, complete of all fixing accessories, mid hinged swivel pole (2" SCHEDULE 40) suitable for handrail mounting.	2,269	Nos
2	Lighting pole hot dip galvanised with PS-4 coating (Refer Note -9), stanchion pole mounting for linear led light fixture, height 2.5 m, complete of all fixing accessories, mid hinged swivel pole (2" SCHEDULE 40) suitable for handrail mounting.	238	Nos
3	Lighting pole hot dip galvanised, stanchion pole mounting for linear led light fixture, height 2.5 m, complete of all fixing accessories, Telescopic pole suitable for handrail mounting	390	Nos
4	Lighting pole hot dip galvanised with PS-4 coating (refer Note -9), stanchion pole mounting for linear led light fixture, height 2.5 m, complete of all fixing accessories, Telescopic pole suitable for handrail mounting	110	Nos
5	Lighting pole hot dip galvanised, half pole column/bracket mounted on steel structure, height 1m, complete of all accessories suitable for linear led fixtures (2" SCHEDULE 40).	295	Nos
6	Lighting pole hot dip galvanised with PS-4 coating (refer Note -9), half pole column/bracket mounted on steel structure, height 1m, complete of all accessories suitable for linear led fixtures (2" SCHEDULE 40).	115	Nos
7	Lighting pole hot dip galvanised, Soil mounted type (foundation) standalone pole mounting for linear led light fixture, height 2.5 m (2" SCHEDULE 40), complete of all fixing accessories with base plate, along with junction box mounting plate .	496	Nos
8	Lighting pole hot dip galvanised with PS-4 coating (refer Note -9), Soil mounted type (foundation) standalone pole mounting for linear led light fixture, height 2.5 m (2" SCHEDULE 40), complete of all fixing accessories with base plate, along with junction box mounting plate .	25	Nos

**ATTACHMENT I  
SCOPE OF SUPPLY & SERVICES**

SL.NO	ITEM DESCRIPTION	QUANTITY	UOM
9	Lighting pole hot dip galvanised, mounting on Steel structure for linear led light fixture, height 2.5 m (2" SCHEDULE 40), complete of all fixing accessories with base plate, along with junction box mounting plate .	352	Nos
10	Lighting pole hot dip galvanised with PS-4 coating (refer Note -9), mounting on Steel structure for linear led light fixture, height 2.5 m (2" SCHEDULE 40), complete of all fixing accessories with base plate, along with junction box mounting plate .	25	Nos
11	Lighting pole hot dip galvanised, Soil mounted type (foundation) standalone pole mounting for linear led light fixture, height 5 m (2" SCHEDULE 40), complete of all fixing accessories with base plate, along with junction box mounting plate .	1	Nos
12	Lighting pole hot dip galvanised with PS-4 coating (refer Note -9), Soil mounted type (foundation) standalone pole mounting for linear led light fixture, height 5 m (2" SCHEDULE 40), complete of all fixing accessories with base plate, along with junction box mounting plate .	50	Nos
13	Lighting pole hot dip galvanised, mounting on Steel structure for linear led light fixture, height 5 m (2" SCHEDULE 40), complete of all fixing accessories with base plate, along with junction box mounting plate .	1	Nos
14	Lighting pole hot dip galvanised with PS-4 coating (refer Note -9), mounting on Steel structure for linear led light fixture, height 5 m (2" SCHEDULE 40), complete of all fixing accessories with base plate, along with junction box mounting plate .	1	Nos
15	Street Lighting Pole hot dip galvanised steel, Height 8m, Octagonal Pole type along with dinrail mounting terminal block with fuse link, inside the pole for cable loop in loop out, terminal suitable for 5Cx25Sq.mm, cable connecting to fixture 3Cx4Sq.mm with service door IP 56 rated, bottom 300mm covered with 2 pack epoxy coating. Suitable for round shaped LED & able to mount 1-1/2" led light fixture support at the top of pole. Pole Base Plate With Anchor Bolt, Nut & Washers with Earthing arrangement.	259	Nos
16	Street Lighting Pole hot dip galvanised steel, Height 8m, Octagonal Pole type along with dinrail mounting terminal block with fuse link, inside the pole for cable loop in loop out, terminal suitable for 5Cx25Sq.mm, cable connecting to fixture 3Cx4Sq.mm with service door IP 56 rated, bottom 300mm covered with 2 pack epoxy coating. Single arm suitable for Square/rectangle shaped LED light fixture support at the top of pole. Pole Base Plate With Anchor Bolt, Nut & Washers with Earthing arrangement.	1	Nos
17	Street Lighting Pole hot dip galvanised steel with PS-4 coating (refer Note -9), Height 8m, Octagonal Pole type along with dinrail mounting terminal block with fuse link, inside the pole for cable loop in loop out, terminal suitable for 5Cx25Sq.mm, cable connecting to fixture 3Cx4Sq.mm with service door IP 56 rated, bottom 300mm covered with 2 pack epoxy coating. Suitable for round shaped LED & able to mount 1-1/2" led light fixture support at the top of pole. Pole Base Plate With Anchor Bolt, Nut & Washers with Earthing arrangement.	1	Nos
18	Street Lighting Pole hot dip galvanised steel with PS-4 coating (refer Note -9), Height 8m, Octagonal Pole type along with dinrail mounting terminal block with fuse link, inside the pole for cable loop in loop out, terminal suitable for 5Cx25Sq.mm, cable connecting to fixture 3Cx4Sq.mm with service door IP 56 rated, bottom 300mm covered with 2 pack epoxy coating. Single arm suitable for Square/rectangle shaped LED light fixture support at the top of pole. Pole Base Plate With Anchor Bolt, Nut & Washers with Earthing arrangement.	1	Nos
19	Flood Lighting Pole with single arm hot dip galvanised steel, Height 8m, Octagonal Pole type along with dinrail mounting terminal block with fuse link inside the pole for cable loop in loop out, terminal suitable for 5Cx25Sq.mm, cable connecting to fixture 3Cx2.5Sq.mm with service door arrangement, bottom 300mm covered with 2 pack epoxy coating. Able to mount, flood light yoke bracket support with centre bolt cross plate for rotating the LED fixture in the arm. Pole Base Plate With Anchor Bolt, Nut & Washers with Earthing arrangement.	1	Nos
20	Flood Lighting Pole with double arm hot dip galvanised steel hot dip galvanised with PS-4 coating (refer Note -9), Height 8m, Octagonal Pole type along with dinrail mounting terminal block with fuse link inside the pole for cable loop in loop out, terminal suitable for 5Cx25Sq.mm, cable connecting to fixture 3Cx2.5Sq.mm with service door arrangement, bottom 300mm covered with 2 pack epoxy coating. Able to mount, flood light yoke bracket support with centre bolt cross plate for rotating the LED fixture in the arm. Pole Base Plate With Anchor Bolt, Nut & Washers with Earthing arrangement.	200	Nos
21	Flood Lighting Pole with three arm hot dip galvanised steel, Height 8m, Octagonal Pole type along with dinrail mounting terminal block with fuse link inside the pole for cable loop in loop out, terminal suitable for 5Cx25Sq.mm, cable connecting to fixture 3Cx2.5Sq.mm with service door arrangement, bottom 300mm covered with 2 pack epoxy coating. Able to mount, flood light yoke bracket support with centre bolt cross plate for rotating the LED fixture in the arm. Pole Base Plate With Anchor Bolt, Nut & Washers with Earthing arrangement.	1	Nos
22	Flood Lighting Pole with four arm hot dip galvanised steel, Height 8m, Octagonal Pole type along with dinrail mounting terminal block with fuse link inside the pole for cable loop in loop out, terminal suitable for 5Cx25Sq.mm, cable connecting to fixture 3Cx2.5Sq.mm with service door arrangement, bottom 300mm covered with 2 pack epoxy coating. Able to mount, flood light yoke bracket support with centre bolt cross plate for rotating the LED fixture in the arm. Pole Base Plate With Anchor Bolt, Nut & Washers with Earthing arrangement.	1	Nos
23	Single Arm Lighting Pole hot dip galvanised steel hot dip galvanised with PS-4 coating (refer Note -9), Height 8m, Octagonal Pole type along with dinrail mounting terminal block with fuse link inside the pole for cable loop in loop out, terminal suitable for 5Cx25Sq.mm, cable connecting to fixture 3Cx2.5Sq.mm with service door arrangement, bottom 300mm covered with 2 pack epoxy coating. Able to mount Linear led fixture mounting type in the arm. Pole Base Plate With Anchor Bolt, Nut & Washers with Earthing arrangement.	25	Nos

**ATTACHMENT I  
SCOPE OF SUPPLY & SERVICES**

SL.NO	ITEM DESCRIPTION	QUANTITY	UOM
24	Double Arm Lighting Pole hot dip galvanised steel hot dip galvanised with PS-4 coating (refer Note -9), Height 8m, Octagonal Pole type along with dinrail mounting 8 nos of terminal block with fuse link inside the pole for cable loop in loop out, terminal suitable for 5Cx25Sq.mm, cable connecting to fixture 3Cx2.5Sq.mm with service door arrangement, bottom 300mm covered with 2 pack epoxy coating. Able to mount Linear led fixture mounting type in the arm. Pole Base Plate With Anchor Bolt, Nut & Washers with Earthing arrangement.	25	Nos
<b>C. Lighting Junction Boxes</b>			
1	Lighting junction box, GRP with integral Earth plate, IP65 Ex ec IIC T3, with cable gland nickel plated brass with GRP corrosion guard, 4 entries (bottom) on 1 sides, Cable gland and terminal block able to suit 5Cx35mm2 (type 1) including blank plug and drain plug.	275	Nos
2	Lighting junction box, GRP with integral Earth plate, IP65 Ex ec IIC, T3 with cable gland nickel plated brass with GRP corrosion guard in MB, 4 entries (bottom) on 1 sides 5Cx35mm2 for 3 entries and 1 entry for 3Cx4 Sq.mm (type 2) gland, Cable gland and terminal block able to suit the cable sizes (type 2) including blank plug and drain plug..	908	Nos
3	Lighting junction box, GRP with integral Earth plate, IP65 with cable gland nickel plated brass with GRP enclosure in MB, 4 entries (bottom) on 1 sides, Cable gland and terminal block able to suit 5Cx35mm2 (type 1) including blank plug and drain plug..	1,200	Nos
4	Lighting junction box, GRP with integral Earth plate, IP65 with cable gland nickel plated brass with GRP enclosure in MB, 4 entries (bottom) on 1 sides 5Cx35mm2 for 3 entries and 1 entry for 3Cx4 Sq.mm (type 2) gland, Cable gland and terminal block able to suit the cable sizes (type 2) including blank plug and drain plug..	4,098	Nos
<b>D. Aviation Warning Lights</b>			
1	Twin type Low Intensity Aviation Obstruction Light (With Steady Red Led Light) mounted on structure, Light Fitting Shall be Aluminium Alloy (LM6) Painted for UV and atmospheric corrosion ISO 12944-6 (C5) IP66. Suitable For Zone 2, Gas Group IIC and Temp. Class T3 (Ex de). Aviation Light Fitting Shall be in Line with CASA requirements.	10	Nos
2	Twin type Medium Intensity Obstruction Light (With flashing Red Led Light) mounted on structure, Light Fitting Shall be Aluminium Alloy (LM6) Painted for UV and atmospheric corrosion ISO 12944-6 (C5) IP66. Suitable For Zone 2, Gas Group IIC and Temp. Class T3 (Ex de). Aviation Light Fitting Shall be in Line with CASA requirements.	10	Nos
3	Twin type High Intensity Obstruction Light (With Flashing White Led Light) mounted on structure, Light Fitting Shall Be Aluminium Alloy (LM6) Painted Painted for UV and atmospheric corrosion ISO 12944-6 (C5) IP66, Suitable for Zone 2 Gas Group IIC And Temp Class T3 (Ex de). Aviation Light Fitting Shall be in Line With CASA requirements.	1	Nos
4	Aviation lighting control panel lighting control panel shall be in line with CASA standard and FAA Etc panel shall be control both high /low intensity obstruction light along with local switch panel shall be aluminium alloy (LM6) painted with UV paint against atmospheric corrosion with IP66, suitable for zone 2. gas group IIC and temp. class T3(Exde).	1	Nos
<b>E. Safety Shower Lights</b>			
1	63W LED. 230V. lighting fixture. green color stanchion mounted on 2.5m height. IP65 suitable for zone 2. gas group IIC and temp. class T3 (EEx de) with inbuilt battery backup time 120 min.	5	Nos
<b>F. Lighting Switches</b>			
1	16A,230V Emergency lighting testing switch wall/ surface mounted with IP 65, suitable to install, suitable for zone 2, Gas group IIC and temp. class T3 (ex de).with IP66 enclosure	20	Nos

**Notes**

- Cable gland shall be with capacitive cone type, material nickel plated brass with GRP corrosion guard, dual certified for hazardous area.
- Blank plug shall be nickel plated brass, dual certified for hazardous area.
- Ex - Ex certification
- GRP shall be UV stabilised or shall be powder coated as per painting specification.
- Al. alloy fixtures shall be painted suitable for UV and atmospheric corrosion C5 and site condition as specified in BEDD.
- Lighting pole accessories shall be provided as per Typical installation.
- All items (A,C,D,E,F) vendor to provide optional quote for IP 56.
- For all Lighting Fixtures (Item A) vendor to provide optional quote for Al. alloy
- For coating & Painting refer painting spec 0000-KA-E-92000
- Vendor has to provide optional quote for all lighting poles (item B) HDG with powder coat
- Vendor has to provide optional quote for Lighting poles - For line items B.15 to B.24 din rail mounting terminal block with 6A, 2P RCBO instead of fuse link.
- All Lighting Fixtures (Item A) vendor to provide optional quote for same wattage/description of standard CCT (5700K/5000K).
- All Lighting Fixtures (Item A) vendor to provide optional quote for same wattage/description of 4000K CCT.