

**GOVERNMENT OF ODISHA**  
**Housing and Urban Development Department**

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No: 13-HUD-65-REFM-17-SCH-0009/2017 (Pt)/ 20695 /HUD/dt. 28.7.18

**CORRIGENDUM - 6**

**Subject:** Request for Proposal for implementation of Greenfield Street Lighting Project for 113 Urban Local Bodies in Odisha on PPP basis; addendum to the RfP communicated vide No.12646/HUD/dt.22.05.18 & subsequent Corrigenda issued vide No. 15275/HUD/dt.13.06.18, No.16219/HUD/dt.23.06.18, No.16722/HUD/dt.28.06.18, No.18011/HUD/dt.07.07.18 & No.19489/HUD/dt.21.07.18

In response to the clarifications issued vide Corrigenda No. 15275/HUD/dt.13.06.18, No.16219/HUD/dt.23.06.18, No.16722/HUD/dt.28.06.18, No.18011/HUD/dt.07.07.18 and No.19489/HUD/dt.21.07.18 to the Request for Proposal for implementation of Greenfield Street Lighting Project in 113 Urban Local Bodies in Odisha on PPP basis and communicated vide this Department Request for Proposal (RfP) No.12646/HUD/dt.22.05.18, an Addendum is annexed herewith as Addendum 4 for information of all concerned.



**Joint Secretary to Government**

**Memo No.** 20696 /HUD/dt. 28.7.18

Copy forwarded to Senior Project Manager, OUIDF/ Team Lead, TASU, H&UD Department for information and necessary action.

Sr. Project Manager, OUIDF is requested to upload this Office Order in the OUIDF web site: [www.oidf.in](http://www.oidf.in). Team Lead, TASU is also requested to upload this Office Order in the H&UD Department web site: [www.urbanodisha.gov.in](http://www.urbanodisha.gov.in).



**Joint Secretary to Government**

**Memo No.** 20697 /HUD/dt. 28.7.18

Copy forwarded to P.S to Commissioner-cum-Secretary to Government, H&UD Department/ P.S to Special Secretary to Government, H&UD Department/ Joint Secretary to Government (Directorate), H&UD Department/ all Urban Local Bodies for information and necessary action.



**Joint Secretary to Government**

**ADDENDUM-4**

**Addendum to RFP for Implementation of Greenfield Street Lighting Project for 113 ULBs in Odisha on PPP Basis**

Sr No	Clause Reference	Clause Description	Clause Revised Description												
1.	<b>RFP Glossary</b>	<table border="1" style="width: 100%;"> <tr> <td style="width: 20%;"><b>Project SPV</b></td> <td>has the meaning ascribed to it in Clause 1.3 1.b).</td> </tr> <tr> <td><b>Supplementary Bid Security</b></td> <td>has the meaning ascribed to it in Clause 15.4</td> </tr> <tr> <td><b>Third Party Entity</b></td> <td>has the meaning ascribed to it in Clause 4.2 A of this RFP.</td> </tr> </table>	<b>Project SPV</b>	has the meaning ascribed to it in Clause 1.3 1.b).	<b>Supplementary Bid Security</b>	has the meaning ascribed to it in Clause 15.4	<b>Third Party Entity</b>	has the meaning ascribed to it in Clause 4.2 A of this RFP.	<table border="1" style="width: 100%;"> <tr> <td style="width: 20%;"><b>Project SPV</b></td> <td>has the meaning ascribed to it in Clause 1.3 b)</td> </tr> <tr> <td><del><b>Supplementary Bid Security</b></del></td> <td><del>has the meaning ascribed to it in Clause 15.4</del></td> </tr> <tr> <td><del><b>Third Party Entity</b></del></td> <td><del>has the meaning ascribed to it in Clause 4.2 A of this RFP.</del></td> </tr> </table>	<b>Project SPV</b>	has the meaning ascribed to it in Clause 1.3 b)	<del><b>Supplementary Bid Security</b></del>	<del>has the meaning ascribed to it in Clause 15.4</del>	<del><b>Third Party Entity</b></del>	<del>has the meaning ascribed to it in Clause 4.2 A of this RFP.</del>
<b>Project SPV</b>	has the meaning ascribed to it in Clause 1.3 1.b).														
<b>Supplementary Bid Security</b>	has the meaning ascribed to it in Clause 15.4														
<b>Third Party Entity</b>	has the meaning ascribed to it in Clause 4.2 A of this RFP.														
<b>Project SPV</b>	has the meaning ascribed to it in Clause 1.3 b)														
<del><b>Supplementary Bid Security</b></del>	<del>has the meaning ascribed to it in Clause 15.4</del>														
<del><b>Third Party Entity</b></del>	<del>has the meaning ascribed to it in Clause 4.2 A of this RFP.</del>														
2.	<b>RFP Clause 1.2 (e)</b>	(e) Introduction of voltage dimming to facilitate and for enhancing energy savings in off-peak hours;	(e) <del>Introduction of voltage dimming to facilitate and for enhancing energy savings in off peak hours;</del> — Stands deleted-												
3.	<b>RFP Clause 2.4</b>	2.4 The Bidder will be required to quote, in its Financial Proposal, the Equipment Rate for each item of Equipment to be deployed for the Cluster. The Equipment Rate shall be based on an ex-works basis at the respective Cluster and shall be inclusive of any applicable taxes, duties, cess, other levies etc. and.....	2.4 The Bidder will be required to quote, in its Financial Proposal, the Equipment Rate for each item of Equipment to be deployed for the Cluster. The Equipment Rate shall be based on an ex-works basis at the respective Cluster and shall be <b>exclusive of GST but</b> inclusive of any other applicable taxes, duties, cess, other levies etc. and.....												
4.	<b>RFP Clause 2.6</b>	2.6 Bidders will be required to submit the Bid Security and, if applicable, the Supplementary Bid Security along with their Bids. The Bidders will provide the Bid Security and the Supplementary Bid Security, if applicable, in the form of a bank guarantee issued by a scheduled bank in India and payable at Bhubaneswar in favour of "Director, Municipal Administration, Directorate of Municipal Administration, Housing and Urban Development Department, Government of Odisha". The Bid will be summarily rejected if it is not accompanied by the Bid Security and, if applicable, the Supplementary Bid Security.	2.6 Bidders will be required to submit the Bid Security <del>and, if applicable, the Supplementary Bid Security</del> along with their Bids. The Bidders will provide the Bid Security <del>and the Supplementary Bid Security, if applicable,</del> in the form of a bank guarantee issued by a scheduled bank in India and payable at Bhubaneswar in favour of " <b>Odisha Urban Infrastructure Development Fund (OUIDF)</b> " <del>Director, Municipal Administration, Directorate of Municipal Administration, Housing and Urban Development Department, Government of Odisha".</del> The Bid will be summarily rejected if it is not accompanied by the Bid Security <del>and, if applicable, the Supplementary Bid Security.</del>												
5.	<b>RFP Clause 4.1 c)</b>	(c) If a Bidder, including any Member or its Associate whose Technical Capacity is being relied upon to qualify for award of the Project, has been barred by the GoI, any state government, or any of its instrumentalities from participating in any project or being awarded any contract and the bar subsists on the Bid Due Date, then such Bidder will not be eligible to submit a Bid	(c) If a Bidder, including any Member <del>or its Associate</del> whose Technical Capacity is being relied upon to qualify for award of the Project, has been barred by the GoI, any state government, or any of its instrumentalities from participating in any project or being awarded any contract and the bar subsists on the Bid Due Date, then such Bidder will not be eligible to submit a Bid												

Sr No	Clause Reference	Clause Description	Clause Revised Description
6.	<b>RFP Clause 4.1 (d) (ii)&amp; Clause 4.1 (d) (iii)</b>	<p>(ii) No change in the composition of a Consortium will be permitted by the Authority until the completion of the Bid Process, or incorporation of the Project SPV, whichever is later.</p> <p>(iii) If the Selected Bidder is a single company, then the Selected Bidder shall subscribe for and hold 100% (one hundred per cent) of the Share Capital of the Project SPV.</p> <p>The Selected Bidder will not be entitled to dilute its equity shareholding in the Project SPV at any time until three (3) years post commissioning of the Project, with the prior written consent of the Authority. The consent may be withheld if the Authority is not satisfied that the transferee meets the Technical Capacity and Financial Capacity demonstrated by the Selected Bidder, and is capable of fulfilling all subsisting and outstanding obligations of the Selected Bidder under the SIOM Agreement and the SHA. Such written consent shall not be unreasonably withheld or delayed.</p>	<p>(ii) No change in the composition of a Consortium <b>as specified in Annexure K</b> will be permitted by the Authority until the completion of the Bid Process, or incorporation of the Project SPV, whichever is later.</p> <p>(iii) If the Selected Bidder is a single company, then the Selected Bidder shall subscribe for and hold 100% (one hundred per cent) of the Share Capital of the Project SPV.</p> <p>The Selected Bidder will not be entitled to dilute its equity shareholding in the Project SPV at any time until three (3) years post commissioning of the Project. However in extraordinary circumstances (Force Majeure) beyond the control of the Project SPV equity shareholding may be diluted with prior written consent of The Authority. The consent may be withheld if The Authority is not satisfied that the transferee meets the Technical Capacity and Financial Capacity demonstrated by the Selected Bidder, and is capable of fulfilling all subsisting and outstanding obligations of the Selected Bidder under the SIOM Agreement and the SHA. Such written consent shall not be unreasonably withheld or delayed.</p>
7.	<b>RFP Clause 4.2 A Technical Capacity</b>	<p><b>A. Technical Capacity</b></p> <p>For demonstrating its technical capacity and experience (<b>Technical Capacity</b>), the Bidder should have gained experience that meets the criteria specified under one or more of the following categories.</p> <p>(a) Supply and installation of lamps and Luminaires for street lighting in India or abroad: supply of <b>at least ten thousand (10,000) Luminaires</b> in a single project and <b>at least thirty thousand (30,000) fixtures</b> in aggregate over the last five (5) years.</p> <p style="text-align: center;">OR</p> <p>(b) EPC experience in public street lighting project in India and abroad; EPC experience of installation and commissioning of LED based public street lighting systems comprised of Luminaires, poles, armature cables etc. totalling to a project cost of at least INR 10 Cr in a single project and at least INR 50 Cr in multiple projects in last five (5) years.</p> <p>The projects referred to by the Bidder in order to meet this</p>	<p><b>A. Technical Capacity</b></p> <p>For demonstrating its technical capacity and experience (<b>Technical Capacity</b>), the Bidder should have gained experience that meets the criteria specified under one or more of the following categories.</p> <p>(a) Supply and installation of lamps and Luminaires for street lighting in India or abroad: <del>supply of</del> At least ten thousand (10,000) Luminaires in a single project and at least thirty thousand (30,000) fixtures in aggregate over the last five (5) years.</p> <p style="text-align: center;">OR</p> <p>(b) EPC experience in public street lighting project in India and abroad; EPC experience of installation and commissioning of LED based public street lighting systems comprised of Luminaires, poles, armature cables etc. totalling to a project cost of at least INR 10 Cr in a single project and at least INR 50 Cr in multiple projects in last five (5) years. Provided that EPC experience in drawings and commissioning of HT/LT lines including installation</p>

Sr No	Clause Reference	Clause Description	Clause Revised Description
		<p>qualification requirement shall be in operation for at least a year.</p> <p style="text-align: center;">OR</p> <p>(c) LED Luminaires manufacturing experience with an annual production of at least 50000 LED Luminaires and the facility should be operational for the last two (2) years</p> <p>The Bidder shall be required to submit details of its experience as per the formats specified in Annexure F of this RFP. Bidders should also submit the documentary evidence of its experience in meeting the Technical Capacity.</p> <p>For the purpose of demonstrating its Technical Capacity in accordance with Clause 4.2 A (a) and/or(b), a Bidder may rely on the experience gained by any third party entity, which is a company incorporated under the laws of its relevant jurisdiction (<b>Third Party Entity</b>) or an Associate. If a Bidder submits the Bid demonstrating its Technical Capacity relying solely on experience gained by a Third Party Entity or an Associate, it must also provide the following with its Bid.</p> <ol style="list-style-type: none"> <li>i. an undertaking in the form set out in <b>Annexure I</b>, stating that in the event that it is declared as the Selected Bidder it will appoint the Third Party Entity or the Associate Company, as the case may be, for supply and installation of LED Luminaries or EPC requirements of the Project; and</li> <li>ii. an undertaking from the Third Party Entity or the Associate Company, as the case may be, in the form set out in <b>Annexure J</b>, stating that: (a) it has permitted the Bidder to rely on the experience gained by the Third Party Entity or the Associate Company, as the case may be; and (b) it has not permitted any other entity to rely on its or any of its group companies' experience for the purposes of participating in the Bid Process; and (c) if the Bidder is declared as the Selected Bidder, then it will supply and install the Equipment or do the EPC works, as applicable, to the Selected Bidder/Project SPV for the term of the Project, in</li> </ol>	<p>and commissioning of sub-stations will also be preferred.</p> <p>The projects referred to by the Bidder in order to meet this qualification requirement shall be in operation for at least a year.</p> <p style="text-align: center;">OR</p> <p>(c) LED Luminaires manufacturing experience with an annual production of at least 50000 LED Luminaires and the facility should be operational for the last two (2) years</p> <p>The Bidder shall be required to submit details of its experience as per the formats specified in Annexure F of this RFP. Bidders should also submit the documentary evidence of its experience in meeting the Technical Capacity.</p> <p><del>For the purpose of demonstrating its Technical Capacity in accordance with Clause 4.2 A (a) and/or(b), a Bidder may rely on the experience gained by any third party entity, which is a company incorporated under the laws of its relevant jurisdiction (<b>Third Party Entity</b>) or an Associate. If a Bidder submits the Bid demonstrating its Technical Capacity relying solely on experience gained by a Third Party Entity or an Associate, it must also provide the following with its Bid.</del></p> <ol style="list-style-type: none"> <li><del>i. an undertaking in the form set out in <b>Annexure I</b>, stating that in the event that it is declared as the Selected Bidder it will appoint the Third Party Entity or the Associate Company, as the case may be, for supply and installation of LED Luminaries or EPC requirements of the Project; and</del></li> <li><del>ii. an undertaking from the Third Party Entity or the Associate Company, as the case may be, in the form set out in <b>Annexure J</b>, stating that: (a) it has permitted the Bidder to rely on the experience gained by the Third Party Entity or the Associate Company, as the case may be; and (b) it has not permitted any other entity to rely on its or any of its group companies' experience for the purposes of participating in the Bid Process; and (c) if the Bidder is declared as the Selected Bidder, then it will supply and install the Equipment or do the EPC works, as applicable, to the Selected Bidder/Project SPV for the term of the Project, in</del></li> </ol>

Sr No	Clause Reference	Clause Description	Clause Revised Description
		<p>accordance with the RFP and the SIOM Agreement.</p> <p>Provided that in the event where the Bidder seeks to qualify based on the experience of Third Party Entity/Associate for meeting qualification under Clause 4.2 A (a) or b), the Bidder shall be required to furnish respective undertakings and authorization as per Annexure I (for both the entities under Clause 4.2 A a) and b) if the entities are different) and Annexure J (from both such entities under Clause 4.2 A a) and b), if the entities are different).</p> <p>Provided further that in the event where the Bidder seeks to qualify on the basis of its own experience under Clause 4.2A (c), it shall have to submit undertaking and authorization as per Annexure I and J from either a Third Party Entity/Associate meeting the requirements under Clause 4.2 A (a) or b).</p>	<p><del>accordance with the RFP and the SIOM Agreement.</del></p> <p><del>Provided that in the event where the Bidder seeks to qualify based on the experience of Third Party Entity/Associate for meeting qualification under Clause 4.2 A (a) or b), the Bidder shall be required to furnish respective undertakings and authorization as per Annexure I (for both the entities under Clause 4.2 A a) and b) if the entities are different) and Annexure J (from both such entities under Clause 4.2 A a) and b), if the entities are different).</del></p> <p><b>Provided further that in the event where the Bidder seeks to qualify based on its experience under Clause 4.2A (c), it should participate as a Consortium in the bid process and should be the Lead Member of the Consortium. Provided further that in such an event, one of the Consortium Members, other than the Lead Member, should meet the EPC requirements specified under Clause 4.2 A (b).</b></p>
8.	<p><b>RFP Clause 4.2 B (a)</b></p> <p><b>( considering the provisions as per first addendum issued by authority)</b></p>	<p>(a) Bidder shall have a minimum Net Worth of INR 20,00,00,000/- (Rupees Twenty Crores) or its equivalent in USD calculated in accordance with the provisions of this Clause 4.2 B <b>(Financial Capacity)</b>. The calculation of Net Worth must be based on the unconsolidated audited annual accounts of the financial year 2016-2017.</p> <p>If the Bid is submitted by a Consortium, the Financial Capacity must be met individually and collectively by all the Consortium Members, provided that the Net Worth requirement to be met by each Consortium Member shall be at least 20% of the total Net Worth requirement.</p> <p>The Networth calculated by the Bidder shall be as per the computation specified in the format as per <b>Annexure G</b> and shall be duly certified by the Statutory Auditor of the Bidder/Member.</p> <p>If financial data is provided in a foreign currency, the Bidders must convert such currency into Rupees according to the RBI Reference Rate for USD prevailing on the date of closing of the accounts for the respective financial year.</p>	<p>(a) Bidder shall have a minimum Net Worth of INR 20,00,00,000/- (Rupees Twenty Crores) or its equivalent in USD calculated in accordance with the provisions of this Clause 4.2 B <b>(Financial Capacity)</b>. The calculation of Net Worth must be based on the <b>standalone</b>/unconsolidated audited annual accounts of the financial year 2016-2017.</p> <p>If the Bid is submitted by a Consortium, the Financial Capacity must be met individually and collectively by all the Consortium Members, provided that the Net Worth requirement to be met by each Consortium Member shall be at least 20% of the total Net Worth requirement.</p> <p>The Networth calculated by the Bidder shall be as per the computation specified in the format as per <b>Annexure G</b> and shall be duly certified by the Statutory Auditor of the Bidder/Member.</p> <p>If financial data is provided in a foreign currency, the Bidders must convert such currency into Rupees according to the RBI Reference Rate <b>for such foreign currency. If RBI reference rate for foreign currency</b></p>

Sr No	Clause Reference	Clause Description	Clause Revised Description
		<p>If the exchange rate for any of the above dates is not available, the rate for the immediately available previous day must be used.</p> <p>For the purposes of meeting the Financial Capacity, only unconsolidated audited annual accounts can be used. Bidders must provide documentary evidence, in accordance with <b>Annexure G</b>, which is duly certified either by a full-time director on the board of directors of the Bidder; or any person authorized under the articles of association or the relevant charter documents/bye-laws of the Bidder; or by issuance of a power of attorney by the authorized representative of the Bidders, in the form set out in <b>Annexure E</b>.</p>	<p><b>is not available, the cross currency rate of such currency in USD as per Reuters screen and RBI reference rate for USD</b> prevailing on the date of closing of the accounts for the respective financial year <b>shall be used.</b></p> <p>If the exchange rate for any of the above dates is not available, the rate for the immediately available previous day must be used.</p> <p>For the purposes of meeting the Financial Capacity, only <b>standalone/</b> unconsolidated audited annual accounts can be used. Bidders must provide documentary evidence, in accordance with <b>Annexure G</b>, which is duly certified either by a full-time director on the board of directors of the Bidder; or any person authorized under the articles of association or the relevant charter documents/bye-laws of the Bidder; or by issuance of a power of attorney by the authorized representative of the Bidders, in the form set out in <b>Annexure E</b>.</p>
9.	<b>RFP Clause 8.3 b)</b>	<p>(b) the LOA shall be liable to be cancelled if the Bidder has been declared the Selected Bidder and if the SIOM Agreement has been executed with the Selected Bidder, then the SIOM Agreement shall be liable to be terminated forthwith. The Authority shall not be liable in any manner whatsoever to the Bidder for such cancellation or termination.</p> <p>Upon such cancellation or termination, the Authority will have the right to forfeit and appropriate the Bid Security, Supplementary Bid Security, if applicable, or the Performance Bank Guarantee, as the case may be.</p>	<p>(b) the LOA shall be liable to be cancelled if the Bidder has been declared the Selected Bidder and if the SIOM Agreement has been executed with the Selected Bidder, then the SIOM Agreement shall be liable to be terminated forthwith. The Authority shall not be liable in any manner whatsoever to the Bidder for such cancellation or termination.</p> <p>Upon such cancellation or termination, the Authority will have the right to forfeit and appropriate the Bid Security, <del>Supplementary Bid Security, if applicable,</del> or the Performance Bank Guarantee, as the case may be.</p>
10.	<b>RFP Clause 15</b>	15. <b>BID SECURITY AND SUPPLEMENTARY BID SECURITY</b>	15. <del><b>BID SECURITY AND SUPPLEMENTARY BID SECURITY</b></del>
11.	<b>RFP Clause 15.3</b>	15.3 The Bidder shall provide the Bid Security in the form of a bank guarantee issued by a scheduled bank in India. The Bid Security shall be issued in favour of Director, Municipal Administration, Directorate of Municipal Administration, Housing and Urban Development Department, Government of Odisha, confirmed for payment at Bhubaneswar and in the format set out in <b>Annexure B</b> .	15.3 The Bidder shall provide the Bid Security in the form of a bank guarantee issued by a scheduled bank in India. The Bid Security shall be issued in favour of <b>‘Odisha Unban Infrastructure Development Fund (OUIDF)’</b> , confirmed for payment at Bhubaneswar and in the format set out in <b>Annexure B</b> .
12.	<b>RFP Clause 15.4</b>	15.4 If the Bidder demonstrates its Technical Capacity by relying on the experience gained by a Third Party Entity or an Associate, then in	15.4 <del>If the Bidder demonstrates its Technical Capacity by relying on the experience gained by a Third Party Entity or an Associate, then in</del>

Sr No	Clause Reference	Clause Description	Clause Revised Description
		<p>addition to the Bid Security, the Bidder shall submit an additional bid security (the <b>Supplementary Bid Security</b>). The Supplementary Bid Security shall be for an amount equivalent to INR 5,000,000 (Rupees Fifty Lakhs).</p> <p>The Bidder shall provide the Supplementary Bid Security in the form of a bank guarantee issued by a scheduled bank in India. The Supplementary Bid Security shall be issued in favour of Director, Municipal Administration, Directorate of Municipal Administration, Housing and Urban Development Department, Government of Odisha, confirmed for payment at Bhubaneswar and in the format set out in <b>Annexure C</b>.</p>	<p><del>addition to the Bid Security, the Bidder shall submit an additional bid security (the <b>Supplementary Bid Security</b>). The Supplementary Bid Security shall be for an amount equivalent to INR 5,000,000 (Rupees Fifty Lakhs).</del></p> <p><del>The Bidder shall provide the Supplementary Bid Security in the form of a bank guarantee issued by a scheduled bank in India. The Supplementary Bid Security shall be issued in favour of Director, Municipal Administration, Directorate of Municipal Administration, Housing and Urban Development Department, Government of Odisha, confirmed for payment at Bhubaneswar and in the format set out in <b>Annexure C</b>.</del> — Stands deleted.</p>
13.	<b>RFP Clause 16.1</b>	<p>16.1 If any Bid is not accompanied by original Bid Security and the original Supplementary Bid Security, if applicable, then such Bid shall be rejected by the Authority as non-responsive. Unless forfeited in accordance with Clause 16.2 below, the Bid Security and the Supplementary Bid Security, if applicable, of the unsuccessful Bidders will be returned by the Authority no later than 180 days from the Bid Due Date.</p> <p>If the Bidder is declared as the Selected Bidder, then the validity of the Bid Security and the Supplementary Bid Security, if applicable of such.....</p>	<p>16.1 If any Bid is not accompanied by original Bid Security <del>and the original Supplementary Bid Security, if applicable</del>, then such Bid shall be rejected by the Authority as non-responsive. Unless forfeited in accordance with Clause 16.2 below, the Bid Security <del>and the Supplementary Bid Security, if applicable</del>, of the unsuccessful Bidders will be returned by the Authority no later than 180 days from the Bid Due Date.</p> <p>If the Bidder is declared as the Selected Bidder, then the validity of the Bid Security <del>and the Supplementary Bid Security, if applicable</del> of such.....</p>
14.	<b>RFP Clause 16.2</b>	<p>16.2 The Bidder, by submitting its Bid pursuant to this RFP, shall be deemed to have acknowledged and confirmed that withdrawal of its Bid or for any default by the Bidder during the Bid validity period will result in the Authority suffering loss and damage. The Bid Security and the Supplementary Bid Security, if applicable, shall be forfeited and appropriated by the Authority.....</p> <p>.....</p> <p>Provided that, if the Selected Bidder fails to fulfil its obligations as set out in this Clause 16.2 (d) in respect of one or more Clusters, then the amounts from the Bid Security and the Supplementary Bid Security will be forfeited for the respective Cluster in respect of which the obligations</p>	<p>16.2 The Bidder, by submitting its Bid pursuant to this RFP, shall be deemed to have acknowledged and confirmed that withdrawal of its Bid or for any default by the Bidder during the Bid validity period will result in the Authority suffering loss and damage. The Bid Security <del>and the Supplementary Bid Security, if applicable</del>, shall be forfeited and appropriated by the Authority.....</p> <p>.....</p> <p>Provided that, if the Selected Bidder fails to fulfil its obligations as set out in this Clause 16.2 (d) in respect of one or more Clusters, then the amounts from the Bid Security <del>and the Supplementary Bid Security</del> will be forfeited for the respective Cluster in respect of which the obligations</p>

Sr No	Clause Reference	Clause Description	Clause Revised Description
		have not been fulfilled.	have not been fulfilled.
15.	<b>RFP Clause 22.2</b>	22.2 In exceptional circumstances, prior to the expiration of the Bid validity period, the Authority may request Bidders to extend the Bid validity period. The request and the responses will be made in writing. Bidders who agree to extend the Bid validity period shall also extend the validity of the Bid Security and the Supplementary Bid Security, if applicable, for an equivalent period. A Bidder may refuse to extend the Bid validity period without forfeiture of its Bid Security or its Supplementary Bid Security, if applicable. An extension of the Bid validity period will not entitle a Bidder to modify its Bid.	22.2 In exceptional circumstances, prior to the expiration of the Bid validity period, the Authority may request Bidders to extend the Bid validity period. The request and the responses will be made in writing. Bidders who agree to extend the Bid validity period shall also extend the validity of the Bid Security <del>and the Supplementary Bid Security, if applicable,</del> for an equivalent period. A Bidder may refuse to extend the Bid validity period without forfeiture of its Bid Security <del>or its Supplementary Bid Security, if applicable.</del> An extension of the Bid validity period will not entitle a Bidder to modify its Bid.
16.	<b>RFP Clause 23 (iii)</b>	(iii) Supplementary Bid Security in the form set out in Annexure C and in accordance with Clause 15.	iii) <del>Supplementary Bid Security in the form set out in Annexure C and in accordance with Clause 15.</del> Stands deleted--.
17.	<b>RFP Clause 33.3</b>	33.3 If the duplicate copy of the LOA duly signed by the Selected Bidder is not received by the stipulated date, the Authority may, unless it consents to an extension, without prejudice to any of its rights under the Bid Documents or law, withdraw the LOA and forfeit the Bid Security and the Supplementary Bid Security, if applicable. Upon withdrawal of the LOA issued to the Selected Bidder, the procedure set out in Clause 8.2 shall follow.	33.3 If the duplicate copy of the LOA duly signed by the Selected Bidder is not received by the stipulated date, the Authority may, unless it consents to an extension, without prejudice to any of its rights under the Bid Documents or law, withdraw the LOA and forfeit the Bid Security <del>and the Supplementary Bid Security, if applicable.</del> Upon withdrawal of the LOA issued to the Selected Bidder, the procedure set out in Clause 8.2 shall follow.
18.	<b>RFP Clause 33.4</b>	34.4 If the Selected Bidder fails to satisfy the conditions specified in Clause 33.2 above or fails to execute the SIOM Agreements for the Project Cluster on or before the date stipulated in the LOA, the Authority may, unless it consents to an extension, without prejudice to any of its rights under the Bid Documents or law, disqualify the Selected Bidder, revoke the LOA and forfeit the Bid Security and, if applicable, the Supplementary Bid Security. If the Authority elects to disqualify such Bidder and revoke the LOA, then the procedure set out in Clause 8.2 shall follow.	34.4 If the Selected Bidder fails to satisfy the conditions specified in Clause 33.2 above or fails to execute the SIOM Agreements for the Project Cluster on or before the date stipulated in the LOA, the Authority may, unless it consents to an extension, without prejudice to any of its rights under the Bid Documents or law, disqualify the Selected Bidder, revoke the LOA and forfeit the Bid Security <del>and, if applicable, the Supplementary Bid Security.</del> If the Authority elects to disqualify such Bidder and revoke the LOA, then the procedure set out in Clause 8.2 shall follow.
19.	<b>RFP SCHEDULE-A-INFORMATION MEMORANDUM - Clause 1 (c)</b>	(c) Introduction of voltage dimming to facilitate and for enhancing energy savings in off-peak hours;	(c) <del>Introduction of voltage dimming to facilitate and for enhancing energy savings in off-peak hours;</del> Stands deleted--
20.	<b>RFP SCHEDULE-</b>	<b>Cluster wise BoQ for Greenfield Public Street Lighting Systems</b>	<b>Cluster wise BoQ for Greenfield Public Street Lighting Systems</b>



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21.	RFP ANNEXURE A –FORMAT OF LETTER OF BID - Clause 10	10 We declare that we or our Associates are not submitting a Bid for the Project.	10 We declare that we or our Associates are not submitting <b>separate Bids</b> for the Project.																																																																																																																								
22.	RFP ANNEXURE A –FORMAT OF LETTER OF BID - Clause 18	18. We offer a Bid Security of INR 5,000,000 (Rupees Fifty Lakhs) and [a Supplementary Bid Security of INR 5,000,000 (Rupees Fifty Lakhs) insert if applicable] to the Authority in accordance with the RFP.	18. We offer a Bid Security of INR 5,000,000 (Rupees Fifty Lakhs) <del>and [a Supplementary Bid Security of INR 5,000,000 (Rupees Fifty Lakhs) insert if applicable]</del> to the Authority in accordance with the RFP.																																																																																																																								
23.	RFP ANNEXURE B – FORMAT FOR BID SECURITY – Clause 2	2. Any such written demand made by the DMA stating that the Bidder is in default of due and faithful compliance with the terms and conditions contained in the Bid Documents will be final, conclusive and binding on the Bank.	2. Any such written demand made by the DMA stating that the Bidder is in default of due and faithful compliance with the terms and conditions contained in the Bid Documents will be final, conclusive and binding on the Bank.  <b>In the event of any claim under this guarantee, payment shall be effected to Odisha Urban Infrastructure Development Fund (OUIDF) account no. 32495633555 of State bank of India, Secretariat branch, IFSC SBIN0010236.</b>																																																																																																																								

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24.	RFP ANNEXURE C - FORMAT OF SUPPLEMENTARY BID SECURITY	ANNEXURE C - FORMAT OF SUPPLEMENTARY BID SECURITY	"ANNEXURE C - FORMAT OF SUPPLEMENTARY BID SECURITY" - -The Annexure Stands Deleted-
25.	RFP ANNEXURE F –TECHNICAL CAPACITY	<p><b>A. Supply and Installation of LED Luminaires [Applicable as per Clause 4.2 A (a) of RFP]</b></p> <p>.....</p> <p>If the Bidder/Consortium Member is demonstrating the Technical Capacity by relying on the supply experience of a Third Party Entity or an Associate Company, as per Clause 4.2(a), relationship to be specified as 'Third Party' or Associate Company, as the case may be.</p> <p>Further, in accordance with Clause 4.2 of the RFP, an undertaking to be submitted in the format provided at Annexure I, stating that in the event that the Bidder/Consortium is declared as the Selected Bidder, it will appoint the Third Party Entity or the Associate Company, as the case may be, as the supply contractor for supplying the LED Luminaires for the Project.</p> <p>.....</p> <p><b>B EPC experience in public street lighting [Applicable as per Clause 4.2 A (b) of RFP ]</b></p> <p>.....</p> <p>If the Bidder/Consortium Member is demonstrating the Technical Capacity by relying on the EPC experience of a Third Party Entity or an Associate Company, as per Clause 4.2 A (a), relationship to be specified as 'Third Party' or Associate Company, as the case may be.</p> <p>Further, in accordance with Clause 4.2 of the RFP, an undertaking to be submitted in the format provided at Annexure I, stating that in the event that the Bidder/Consortium is declared as the Selected Bidder, it will appoint the Third Party Entity or the Associate Company, as the case</p>	<p><b>A. Supply and Installation of LED Luminaires [Applicable as per Clause 4.2 A (a) of RFP]</b></p> <p>.....</p> <p><del>If the Bidder/Consortium Member is demonstrating the Technical Capacity by relying on the supply experience of a Third Party Entity or an Associate Company, as per Clause 4.2(a), relationship to be specified as 'Third Party' or Associate Company, as the case may be.</del></p> <p><del>Further, in accordance with Clause 4.2 of the RFP, an undertaking to be submitted in the format provided at Annexure I, stating that in the event that the Bidder/Consortium is declared as the Selected Bidder, it will appoint the Third Party Entity or the Associate Company, as the case may be, as the supply contractor for supplying the LED Luminaires for the Project.</del></p> <p>.....</p> <p><b>B EPC experience in public street lighting and /or drawing HT/LT lines for power transmission/distribution purpose including substation[Applicable as per Clause 4.2 A (b) of RFP ]</b></p> <p>.....</p> <p><del>If the Bidder/Consortium Member is demonstrating the Technical Capacity by relying on the EPC experience of a Third Party Entity or an Associate Company, as per Clause 4.2 A (a), relationship to be specified as 'Third Party' or Associate Company, as the case may be.</del></p> <p><del>Further, in accordance with Clause 4.2 of the RFP, an undertaking to be submitted in the format provided at Annexure I, stating that in the event that the Bidder/Consortium is declared as the Selected Bidder, it will appoint the Third Party Entity or the Associate Company, as the case</del></p>

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		<p>may be, as the EPC contractor for the Project.</p> <p>** At least ten thousand (10,000) fixtures in a single project and fifty thousand (50,000) fixtures in aggregate over the last five (5) years.</p> <p>.....</p> <p><b>C. Manufacturing of LED Luminaires [Applicable as per Clause 4.2 A (c) of RFP ]#</b></p> <p>.....</p> <p># In addition, Bidder to provide undertaking and authorization as per Annexure I and J from either a Third Party Entity/Associate meeting the requirements under Clause 4.2 A (a) or b)</p> <p>.....</p>	<p><del>may be, as the EPC contractor for the Project.</del></p> <p>** At least ten thousand (10,000) fixtures in a single project and <b>thirty thousand (30,000) fixtures</b> in aggregate over the last five (5) years.</p> <p>.....</p> <p><b>C. Manufacturing of LED Luminaires [Applicable as per Clause 4.2 A (c) of RFP ]#</b></p> <p>.....</p> <p><del># In addition, Bidder to provide undertaking and authorization as per Annexure I and J from either a Third Party Entity/Associate meeting the requirements under Clause 4.2 A (a) or b)</del></p> <p><b># Bidder to ensure that the Consortium Member submitting the format is a Lead Member owning the LED Luminaire manufacturing facility and further ensure that one of the other members in the Consortium meets the requirements as per Clause 4.2 A (b). Accordingly, the Bidder is required to furnish this Format F from the other Member capturing such details in part B of the format.</b></p> <p>.....</p>
26.	<b>RFP ANNEXURE G – FINANCIAL CAPACITY</b>	<p>.....</p> <p>We certify that [<i>name of the Bidder</i>] had a Net Worth of [<i>INR crore or equivalent in USD*</i>] computed according to the instructions set out in the RFP based on the unconsolidated audited annual accounts of the preceding financial year (2016-2017) immediately available prior to Bid Due Date.</p> <p>.....</p> <p>We certify that [<i>name of the Consortium Members</i>] had a Total Net Worth of [<i>INR crore or equivalent in USD*</i>] computed according to the instructions set out in the RFP based on the unconsolidated audited annual accounts of the preceding financial year (2016-2017) immediately available prior to Bid Due Date.</p>	<p>.....</p> <p>We certify that [<i>name of the Bidder</i>] had a Net Worth of [<i>INR crore or equivalent in USD*</i>] computed according to the instructions set out in the RFP based on the <b>standalone</b>/unconsolidated audited annual accounts of the preceding financial year (2016-2017) immediately available prior to Bid Due Date.</p> <p>.....</p> <p>We certify that [<i>name of the Consortium Members</i>] had a Total Net Worth of [<i>INR crore or equivalent in USD*</i>] computed according to the instructions set out in the RFP based on the <b>standalone</b>/unconsolidated audited annual accounts of the preceding financial year (2016-2017) immediately available prior to Bid Due Date.</p>

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27.	RFP ANNEXURE I- UNDERTAKING FOR APPOINTMENT OF THIRD PARTY ENTITY OR AN ASSOCIATE COMPANY	ANNEXURE I - UNDERTAKING FOR APPOINTMENT OF THIRD PARTY ENTITY OR AN ASSOCIATE COMPANY					“ANNEXURE I - UNDERTAKING FOR APPOINTMENT OF THIRD PARTY ENTITY OR AN ASSOCIATE COMPANY” - The Annexure stands deleted-						
28.	RFP ANNEXURE J - AUTHORISATION AND UNDERTAKING FROM THIRD PARTY ENTITY/ASSOCIATE COMPANY	ANNEXURE J -AUTHORISATION AND UNDERTAKING FROM THIRD PARTY ENTITY/ASSOCIATE COMPANY					“ANNEXURE J -AUTHORISATION AND UNDERTAKING FROM THIRD PARTY ENTITY/ASSOCIATE COMPANY” - The Annexure stands deleted-						
29.	RFP ANNEXURE K – JOINT BIDDING AGREEMENT – Clause 7	<p><b>7. Termination</b></p> <p>This Agreement will be effective from the date hereof and will continue in full force for the entire duration of the Project in accordance with the SHA and the SIOM Agreement, in case the Project is awarded to the Consortium. However, in case the Consortium is not selected for award of the Project, the Agreement will stand terminated in case the Bidder is not pre-qualified or upon return of the Bid Security and Supplementary Bid Security, if applicable, by the Authority, as the case may be.</p>					<p><b>7. Termination</b></p> <p>This Agreement will be effective from the date hereof and will continue in full force for the entire duration of the Project in accordance with the SHA and the SIOM Agreement, in case the Project is awarded to the Consortium. However, in case the Consortium is not selected for award of the Project, the Agreement will stand terminated in case the Bidder is not pre-qualified or upon return of the Bid Security <del>and Supplementary Bid Security, if applicable,</del> by the Authority, as the case may be.</p>						
30.	RFP Annexure L - Input-Sheet- Cluster-A, B, C, D & E						<p>Please refer to revised Annexure L --for Cluster-A, B, C, D &amp; E uploaded with this addendum.</p> <p><i>Kindly visit OUIDF website at <a href="http://www.ouidf.in">www.ouidf.in</a> for revised Excel spread sheets of Annexure L</i></p>						
31.	SIOM Clause 2.2 (c) (i)	(i) free of cost and for the Term, provide enclosed space measuring at least 30 square meters for the Project SPV to set up its call centre and control room at Cluster level and shall execute all necessary documents to make such space available;					(i) free of cost and for the Term, provide enclosed space <b>at the office premises of any of the ULB within Cluster,</b> measuring at least <b>15</b> square meters for the Project SPV to set up its call centre and control room at Cluster level and shall execute all necessary documents to make such space available;						
32.	SIOM Schedule 1	Particulars	Cluste	Cluste	Cluste	Cluste	Cluste	Particulars	Cluster	Cluste	Cluste	Cluste	Cluste

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Shackle insulator (75 mm X 90 mm)	Numbers	16396	15781	10676	9613	8613																																																																																																																																									
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Aluminum alloy messenger wire of 16 Sq mm	meter	388728	379061	263864	231758	205314																																																																																																																																									
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<b>Poles (SP numbers as per IS 2713 Part III 1980)</b>																																																																																																																																															
<b>P1-A: "540 SP 34"</b>	Numbers	<b>3532</b>	<b>12122</b>	<b>3783</b>	<b>7795</b>	<b>6897</b>																																																																																																																																									
<b>P1-B: "540 SP 36" for coastal districts</b>	Numbers	<b>9961</b>	--	<b>3920</b>	--	--																																																																																																																																									
<b>P2-A: "540 SP 49"</b>	Numbers	<b>623</b>	<b>3659</b>	<b>1470</b>	<b>1819</b>	<b>1716</b>																																																																																																																																									
<b>P2-B: "540 SP 54" for coastal districts</b>	Numbers	<b>2280</b>	--	<b>1503</b>	--	--																																																																																																																																									
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34.	SIOM Schedule 2- Scope of work and services- Clause E (iii)	<p>iii. Undertake dimming of LED Luminaires, through appropriate remotely operated/ automated systems in accordance with off-peak hours that may be specified by the respective ULB from time to time, as applicable.</p>					<p>iii. Undertake <del>dimming</del> <b>switching operations</b> of LED Luminaires, through appropriate remotely operated/ automated systems as per operating hours specified by the respective ULB from time to time, as applicable.</p>																																																																																																																																								
35.	SIOM Schedule 3 – Clause 2 (b) Authority's minimum	<p><b>(b) Authority's minimum requirements</b></p> <table border="1"> <thead> <tr> <th>Parameter</th> <th>Authority's minimum requirement</th> </tr> </thead> <tbody> <tr> <td>Broad level</td> <td> <ul style="list-style-type: none"> <li>CCMS along with feeder panel automation should be</li> </ul> </td> </tr> </tbody> </table>					Parameter	Authority's minimum requirement	Broad level	<ul style="list-style-type: none"> <li>CCMS along with feeder panel automation should be</li> </ul>	<p><b>(b) Authority's minimum requirements</b></p> <table border="1"> <thead> <tr> <th>Parameter</th> <th>Authority's minimum requirement</th> </tr> </thead> <tbody> <tr> <td>Broad level</td> <td> <ul style="list-style-type: none"> <li>CCMS along with feeder panel automation should be</li> </ul> </td> </tr> </tbody> </table>					Parameter	Authority's minimum requirement	Broad level	<ul style="list-style-type: none"> <li>CCMS along with feeder panel automation should be</li> </ul>																																																																																																																												
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	requirements	operational Project features	<p>able to facilitate feeder panel level (group level) control of LED Luminaires installed under Project for Greenfield Public Street Lighting System where as monitoring of LED Luminaire is at individual level facilitated through respective feeder panel automation.</p> <ul style="list-style-type: none"> <li>Greenfield Public Street Lighting System shall have dimming provision at respective feeder panel level and to be monitored and controlled from CCMS.</li> <li>Greenfield Public Street Lighting System along with CCMS should have flexibility to re-define the dimming hours protocol as modified by respective ULB from time to time specific to individual feeder panel</li> <li>The G should be able to communicate the system issues or failures to the CCMS facilitated through feeder panel automation.</li> </ul>	operational Project features	<p>able to facilitate feeder panel level (group level) control of LED Luminaires installed under Project for Greenfield Public Street Lighting System. <del>where as monitoring of LED Luminaire is at individual level facilitated through respective feeder panel automation.</del></p> <ul style="list-style-type: none"> <li><del>Greenfield Public Street Lighting System shall have dimming provision at respective feeder panel level and to be monitored and controlled from CCMS.</del></li> <li>Greenfield Public Street Lighting System along with CCMS should have flexibility to re-define the <del>dimming</del> <b>operating</b> hours protocol as modified by respective ULB from time to time specific to individual feeder panel</li> <li>The <b>Greenfield Public Street Lighting System</b> should be able to communicate the system issues or failures to the CCMS facilitated through feeder panel automation.</li> </ul>								
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37.	SIOM Schedule 3 – Clause 3 (c) Technical specifications for voltage controller & streetlight controller	<b>(c) Technical specifications for voltage controller &amp; streetlight controller</b>		<b>(c) Technical specifications for <del>voltage controller &amp;</del> streetlight controller</b>									
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Sr No	Clause Reference	Clause Description	Clause Revised Description
		<p>Dimming level and dimming times (Off-peak hours) should be remotely settable. Dimming may be carried out either through voltage control or any other suitable mechanism subject to adherence to minimum lux levels and other requirements as specified in the SIOM Agreement. Irrespective of the mechanism, the dimming would need to be in steps (up to 10%, 20% &amp; 30%). Project SPV may however note that a mechanism resulting in non-glowing/switching off of LEDs / an array of LEDs in a LED Luminaire is not permitted for dimming purpose.</p> <p>Should be compatible with harmonic filters installed in feeder panels. And should take in to account Conditions of Supply Code, 2004 issued by OERC.</p> <p>Other than basic switching components, no other moving parts should be there.</p> <p>Rating and certifications</p> <p>The rating of Voltage controller should be at least 1.25 times the lighting load as estimated for new LED Luminaires based on Joint Survey.</p> <p>240 V AC 50 Hz single phase two wire input supply with 3 taps to control output voltage. Input supply voltage variation: 150V to 260V. Set output voltage variation should be allowed within +/- 3V during dimming.</p>	<p><del>described in this document.</del></p> <p><del>Objective of voltage controller is to optimize the energy consumption of street lights by voltage control dimming during off peak hours</del></p> <p><b>Feeder panel specific operating time should be remotely settable and controllable from Central Control &amp; Monitoring System (CCMS) through individual streetlight controller provided at feeder panel.</b></p> <p><del>Dimming level and dimming times (Off peak hours) should be remotely settable. Dimming may be carried out either through voltage control or any other suitable mechanism subject to adherence to minimum lux levels and other requirements as specified in the SIOM Agreement. Irrespective of the mechanism, the dimming would need to be in steps (up to 10%, 20% &amp; 30%). Project SPV may however note that a mechanism resulting in non glowing/switching off of LEDs / an array of LEDs in a LED Luminaire is not permitted for dimming purpose.</del></p> <p>Should be compatible with harmonic filters installed in feeder panels. And should take in to account Conditions of Supply Code, 2004 issued by OERC.</p> <p>Other than basic switching components, no other moving parts should be there.</p> <p>Rating and certifications</p> <p>The rating of <del>Voltage</del> <b>streetlight</b> controller should be <b>compatible to manage electrical load of</b> at least 1.25 times the lighting load as estimated for new LED Luminaires based on Joint Survey.</p> <p><b>Streetlight controller should operate on input supply of 240 V AC 50 Hz single-phase two wire supply system.</b></p> <p><del>240 V AC 50 Hz single phase two wire input supply with</del></p>

Sr No	Clause Reference	Clause Description	Clause Revised Description
		<p>Intelligent dimming should be there. During off-peak hours, if input voltage itself is below 30% of rated voltage, further voltage reduction should not happen.</p> <p>Standard output voltage taps in a phase at 150/180/210 V AC @ 240 V AC to ensure maximum energy saving during off-peak hours</p> <p>During voltage tap changing, lights should not be momentarily disconnected which will lead to re-ignition of lights. It is mandatory for Project SPV to make gapless changeover arrangement when changing from by-pass mode to lower voltage energy saving mode and interchanging between the taps. Project SPV should produce the Performance assessment certificate for minimum continuous 100 such changeover operations without any LED Luminaire going off at minimum and maximum supply voltage conditions. This certificate should be received from reputed Laboratory organizations like CPRI, ETDC, ERTL, IDEMI, SAMEER etc.</p> <p>Voltage controller to be compatible with a microprocessor based dual channel almanac timer controller in feeder panel to facilitate user defined program for dimming voltage setting for peak and off-peak hours and also switching over to savings mode/bypass mode when required.</p> <p>System losses for entire operating range should be less than 3% so as to achieve high efficiency.</p> <p>Communicati on Provisions</p> <p>User settable selection between GSM / GPRS operation and manual local operation. Control of operation times settings from the central PC (in case of GSM) installed at</p>	<p><del>3 taps to control output voltage. Input supply voltage variation: 150V to 260V. Set output voltage variation should be allowed within +/- 3V during dimming.</del></p> <p><del>Intelligent dimming should be there. During off peak hours, if input voltage itself is below 30% of rated voltage, further voltage reduction should not happen.</del></p> <p><del>Standard output voltage taps in a phase at 150/180/210 V AC @ 240 V AC to ensure maximum energy saving during off-peak hours</del></p> <p><del>During voltage tap changing, lights should not be momentarily disconnected which will lead to re-ignition of lights. It is mandatory for Project SPV to make gapless changeover arrangement when changing from by pass mode to lower voltage energy saving mode and interchanging between the taps. Project SPV should produce the Performance assessment certificate for minimum continuous 100 such changeover operations without any LED Luminaire going off at minimum and maximum supply voltage conditions. This certificate should be received from reputed Laboratory organizations like CPRI, ETDC, ERTL, IDEMI, SAMEER etc.</del></p> <p><b>If applicable, streetlight Voltage controller</b> to be compatible with a microprocessor based dual channel almanac timer controller in feeder panel to facilitate user-defined program for <b>switching operations</b>.<del>dimming</del> voltage setting for peak and off-peak hours and also switching over to savings mode/bypass mode when required</p> <p>System losses <b>specific to streetlight controller</b> for entire operating range should be less than 3% so as to achieve high efficiency.</p> <p>Communicati on Provisions</p> <p>User settable selection between GSM / GPRS operation and manual local operation. Control of operation times settings from the central PC (in case of GSM) installed at</p>



Sr No	Clause Reference	Clause Description		Clause Revised Description													
			<p>Cluster level CCMS,</p> <p>Specific data request whenever user desires from control PC installed at Cluster level CCMS.</p> <p>Over-ride for local operation time settings from the central PC on every individual device for user definable time frame with a specific display on the particular device where such override is implemented</p> <p>Enclosure &amp; Fabrication Voltage controller to be housed in the same cabinet/enclosure of Feeder panel. Design life should be 15 years or more</p>		<p>Cluster level CCMS,</p> <p><b>Streetlight controller to facilitate</b> specific data request whenever user desires from control PC installed at Cluster level CCMS <b>and should also generate alert messages in the form of SMS to select contact numbers specific to that feeder panel in the event specified as per the provisions in Schedule 3 Clause 3 (b)</b></p> <p>Over-ride for local operation time settings from the central PC on every individual device for user definable time frame with a specific display on the particular device where such override is implemented</p> <p>Enclosure &amp; Fabrication <b>Street light</b> Voltage controller to be housed in the same cabinet/enclosure of Feeder panel. Design life should be 15 years or more</p>												
		<p><b>Streetlight Controller</b></p> <p>All feeder panels to be provided with individual streetlight controller along with voltage controller as per the technical specification described in this document. The dimming time and the dimming level shall be controllable from Central Control &amp; Monitoring System (CCMS) through individual streetlight controller at feeder panel.</p>		<p><b>Streetlight Controller</b></p> <p><del>All feeder panels to be provided with individual streetlight controller along with voltage controller as per the technical specification described in this document. The dimming time and the dimming level shall be controllable from Central Control &amp; Monitoring System (CCMS) through individual streetlight controller at feeder panel.</del></p>													
38.	SIOM Schedule 3 – Clause 3 (d) i : Street light pole (ms), accessories and earthing specifications	<p><b>i Street light pole (ms), accessories and earthing specifications</b></p> <table border="1" data-bbox="495 1074 1256 1398"> <thead> <tr> <th data-bbox="495 1074 703 1121">Parameter</th> <th data-bbox="703 1074 1256 1121">Specification /details</th> </tr> </thead> <tbody> <tr> <td data-bbox="495 1121 703 1337">Pole height above ground level</td> <td data-bbox="703 1121 1256 1337">8 meter / 9 meter  To be decided by Joint Survey Team on case to case basis for new road stretches</td> </tr> <tr> <td data-bbox="495 1337 703 1398">D' iron clamps complete with</td> <td data-bbox="703 1337 1256 1398">Supplying and erection of galvanised 'D' iron clamps to be installed at 500 mm from top of the pole,</td> </tr> </tbody> </table>		Parameter	Specification /details	Pole height above ground level	8 meter / 9 meter  To be decided by Joint Survey Team on case to case basis for new road stretches	D' iron clamps complete with	Supplying and erection of galvanised 'D' iron clamps to be installed at 500 mm from top of the pole,	<p><b>i Street light pole (ms), accessories and earthing specifications</b></p> <table border="1" data-bbox="1279 1074 2047 1398"> <thead> <tr> <th data-bbox="1279 1074 1487 1121">Parameter</th> <th data-bbox="1487 1074 2047 1121">Specification /details</th> </tr> </thead> <tbody> <tr> <td data-bbox="1279 1121 1487 1337">Pole height above ground level</td> <td data-bbox="1487 1121 2047 1337"><b>7.7 meter / 9.2 meter</b>  To be decided by Joint Survey Team on case to case basis for new road stretches <b>in accordance with provision of IS 1944 with Luminaire mounting height for Group A roads is between 9 to 10 meters and for group B roads between 7.5 to 9 meters</b></td> </tr> <tr> <td data-bbox="1279 1337 1487 1398">D' iron clamps complete with</td> <td data-bbox="1487 1337 2047 1398">Supplying and erection of galvanised 'D' iron clamps to be installed at 500 mm from top of the pole,</td> </tr> </tbody> </table>		Parameter	Specification /details	Pole height above ground level	<b>7.7 meter / 9.2 meter</b>  To be decided by Joint Survey Team on case to case basis for new road stretches <b>in accordance with provision of IS 1944 with Luminaire mounting height for Group A roads is between 9 to 10 meters and for group B roads between 7.5 to 9 meters</b>	D' iron clamps complete with	Supplying and erection of galvanised 'D' iron clamps to be installed at 500 mm from top of the pole,
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Sr No	Clause Reference	Clause Description	Clause Revised Description																
		<p>manufacturing, installation, testing, installation and commissioning of this work. There shall be no circumferential weld joint in Poles. The grade of steel used shall be S-355 as per BSEN-10025 or equivalent Indian Standards .The poles shall be single dip, hot galvanized as per IS: 2629/IS 2633/IS 4759 standards with minimum coating thickness of 70 microns. The pole manufacturing unit shall have in-house pole testing facility for validation of structural design data. The pole testing facility shall conform to BS EN 40-3-2-2000 part 3-2.</p>	<p>manufacturing, installation, testing, installation and commissioning of this work. There shall be no circumferential weld joint in <b>the individual tube lengths of the poles</b>. The grade of steel used shall be <del>S-355</del><b>Grade V</b> as per <del>IS 10748</del><b>IS 10748</b> or equivalent Indian Standards. The poles shall be single dip, hot galvanized as per IS: 2629/IS 2633/IS 4759 standards with minimum coating thickness of 70 microns. The pole-manufacturing unit shall have in-house pole testing facility for validation of structural design data. <del>The pole testing facility shall conform to BS EN 40-3-2-2000 part 3-2.</del></p> <p><b>Hot rolled coils of steel shall be procured from primary steel manufacturers in India like SAIL, JsW, RINL, Tata Steel etc. to maintain a quality.</b></p>																
39.	<p><b>SIOM Schedule 3 – Clause 3 (d) ii : Electrical specifications for overhead supply cables</b></p>	<p><b>ii : Electrical specifications for overhead supply cables</b></p> <table border="1" data-bbox="495 651 1238 1129"> <thead> <tr> <th data-bbox="495 651 703 703">Parameter</th> <th data-bbox="703 651 1238 703">Specification /details</th> </tr> </thead> <tbody> <tr> <td data-bbox="495 703 703 927">Overhead cable size &amp; type</td> <td data-bbox="703 703 1238 927"> <p>Supplying &amp; erecting of 1.1 kV, twin core, aluminium conductor, PVC insulated, unarmoured, PVC sheathed cable conforming to IS :1554 (part I) along with 16 sq mm aluminium alloy messenger wire for overhead supply arrangements.</p> <p>Project SPV should .....</p> </td> </tr> <tr> <td data-bbox="495 927 703 1129">Cable overhead supply arrangements</td> <td data-bbox="703 927 1238 1129"> <ul style="list-style-type: none"> <li>• D’ iron clamps complete with shackle insulator for holding overhead supply cables to be installed at 500 mm from top of the pole to hold 16 sq mm aluminium alloy messenger wire to provide support to unarmoured aluminium cable for overhead supply arrangements.</li> </ul> </td> </tr> </tbody> </table>	Parameter	Specification /details	Overhead cable size & type	<p>Supplying &amp; erecting of 1.1 kV, twin core, aluminium conductor, PVC insulated, unarmoured, PVC sheathed cable conforming to IS :1554 (part I) along with 16 sq mm aluminium alloy messenger wire for overhead supply arrangements.</p> <p>Project SPV should .....</p>	Cable overhead supply arrangements	<ul style="list-style-type: none"> <li>• D’ iron clamps complete with shackle insulator for holding overhead supply cables to be installed at 500 mm from top of the pole to hold 16 sq mm aluminium alloy messenger wire to provide support to unarmoured aluminium cable for overhead supply arrangements.</li> </ul>	<p><b>ii : Electrical specifications for overhead supply cables</b></p> <table border="1" data-bbox="1283 651 2027 1129"> <thead> <tr> <th data-bbox="1283 651 1491 703">Parameter</th> <th data-bbox="1491 651 2027 703">Specification /details</th> </tr> </thead> <tbody> <tr> <td data-bbox="1283 703 1491 927">Overhead cable size &amp; type</td> <td data-bbox="1491 703 2027 927"> <p>Supplying &amp; erecting of 1.1 kV, twin core, aluminium conductor, PVC insulated, unarmoured, PVC sheathed cable conforming to IS :1554 (part I) along with <b>25 sq mm</b> aluminium alloy messenger wire for overhead supply arrangements.</p> <p>Project SPV should .....</p> </td> </tr> <tr> <td data-bbox="1283 927 1491 1129">Cable overhead supply arrangements</td> <td data-bbox="1491 927 2027 1129"> <ul style="list-style-type: none"> <li>• D’ iron clamps complete with CI knob for holding overhead supply cables to be installed at 500 mm from top of the pole to hold <b>25 sq mm</b> aluminium alloy messenger wire to provide support to unarmoured aluminium cable for overhead supply arrangements.</li> </ul> </td> </tr> </tbody> </table> <p><b>Project SPV to select the cable rating based on the length of stretch per circuit that can be supplied after considering load to be supplied and the voltage drop criteria. Project SPV may refer to table below indicating tentative length of stretch per circuit for different cable ratings depending upon the total electrical load to be supplied.</b></p> <table border="1" data-bbox="1283 1329 2027 1412"> <thead> <tr> <th data-bbox="1283 1329 1491 1382">Cable Size</th> <th data-bbox="1491 1329 2027 1382">Length of stretch that can be supplied per Circuit</th> </tr> </thead> <tbody> <tr> <td data-bbox="1283 1382 1491 1412">2.5 Sq mm</td> <td data-bbox="1491 1382 2027 1412">up to 220 m</td> </tr> </tbody> </table>	Parameter	Specification /details	Overhead cable size & type	<p>Supplying &amp; erecting of 1.1 kV, twin core, aluminium conductor, PVC insulated, unarmoured, PVC sheathed cable conforming to IS :1554 (part I) along with <b>25 sq mm</b> aluminium alloy messenger wire for overhead supply arrangements.</p> <p>Project SPV should .....</p>	Cable overhead supply arrangements	<ul style="list-style-type: none"> <li>• D’ iron clamps complete with CI knob for holding overhead supply cables to be installed at 500 mm from top of the pole to hold <b>25 sq mm</b> aluminium alloy messenger wire to provide support to unarmoured aluminium cable for overhead supply arrangements.</li> </ul>	Cable Size	Length of stretch that can be supplied per Circuit	2.5 Sq mm	up to 220 m
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16 Sq mm	up to 1750 m														
40.	<b>SIOM Schedule 3 – Clause 3 (e) Specifications for Central Control and Monitoring System (CCMS) &amp; Automation System</b>	<p><b>e) Specifications for Central Control and Monitoring System (CCMS) &amp; Automation System</b></p> <p>Objective of centralized street ..... This will facilitate optimizing the energy costs by timely switching on/off of lamps &amp; implementing voltage regulation/ dimming of LED Luminaires during off-peak hours as well as savings in present street light maintenance cost by setting new standards in managing street lights with minimal expenditure.</p> <table border="1"> <thead> <tr> <th colspan="2" data-bbox="486 687 815 735">Parameter</th> <th data-bbox="815 687 1265 735">Specifications /details</th> </tr> </thead> <tbody> <tr> <td data-bbox="486 735 665 938">Key components &amp; functions</td> <td data-bbox="665 735 815 938">Wireless central automation controller</td> <td data-bbox="815 735 1265 938">Act as heart of automation and should facilitate remote and auto on/off of street lights, remote dimming level settings (different for different feeder Panels) for street light connected on different feeder panels.</td> </tr> </tbody> </table>	Parameter		Specifications /details	Key components & functions	Wireless central automation controller	Act as heart of automation and should facilitate remote and auto on/off of street lights, remote dimming level settings (different for different feeder Panels) for street light connected on different feeder panels.	<p><b>e) Specifications for Central Control and Monitoring System (CCMS) &amp; Automation System</b></p> <p>Objective of centralized street ..... This will facilitate optimizing the energy costs by timely switching on/off of lamps &amp; implementing voltage regulation/<del>dimming of</del> <b>for</b> LED Luminaires during <b>operating-off-peak</b> hours as well as savings in present street light maintenance cost by setting new standards in managing street lights with minimal expenditure.</p> <table border="1"> <thead> <tr> <th colspan="2" data-bbox="1279 687 1608 735">Parameter</th> <th data-bbox="1608 687 2054 735">Specifications /details</th> </tr> </thead> <tbody> <tr> <td data-bbox="1279 735 1458 938">Key components &amp; functions</td> <td data-bbox="1458 735 1608 938">Wireless central automation controller</td> <td data-bbox="1608 735 2054 938">Act as heart of automation and should facilitate remote and auto on/off of street lights, remote <del>dimming level</del> <b>operating hour</b> settings (different for different feeder Panels) for street light connected on different feeder panels.</td> </tr> </tbody> </table>	Parameter		Specifications /details	Key components & functions	Wireless central automation controller	Act as heart of automation and should facilitate remote and auto on/off of street lights, remote <del>dimming level</del> <b>operating hour</b> settings (different for different feeder Panels) for street light connected on different feeder panels.
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41.	<b>SIOM Schedule 4 – Clause 1- 2<sup>nd</sup> paragraph - Page 90</b>	<p>.....</p> <p>Based on details gathered through Joint Survey,.....  .....,number of pole junction box, number of ‘D’ iron clamps complete with shackle insulator (to support messenger wire), length of aluminium.....</p>	<p>.....</p> <p>Based on details gathered through Joint Survey,.....  .....,number of pole junction box, number of ‘D’ iron clamps complete with <b>CI knob shackle insulator</b>(to support messenger wire), length of aluminium.....</p>												
42.	<b>SIOM Schedule 4 – Clause 1- b) Indicative format to prepare Equipment Installation Plan to capture ULB specific details</b>	<p><b>b) Indicative format to prepare Equipment Installation Plan to capture ULB specific details</b></p> <table border="1"> <thead> <tr> <th data-bbox="486 1235 622 1267">U</th> <th data-bbox="622 1235 869 1267">V</th> <th data-bbox="869 1235 1072 1267">W</th> </tr> </thead> <tbody> <tr> <td data-bbox="486 1267 622 1401">Pole junction box (numbers)</td> <td data-bbox="622 1267 869 1401">Galvanised ‘D’ iron clamps complete with shackle insulator ( numbers)</td> <td data-bbox="869 1267 1072 1401">Aluminum alloy messenger wire of 16 Sq mm to support overhead cables (meter)</td> </tr> </tbody> </table>	U	V	W	Pole junction box (numbers)	Galvanised ‘D’ iron clamps complete with shackle insulator ( numbers)	Aluminum alloy messenger wire of 16 Sq mm to support overhead cables (meter)	<p><b>b) Indicative format to prepare Equipment Installation Plan to capture ULB specific details</b></p> <table border="1"> <thead> <tr> <th data-bbox="1279 1235 1415 1267">U</th> <th data-bbox="1415 1235 1662 1267">V</th> <th data-bbox="1662 1235 1865 1267">W</th> </tr> </thead> <tbody> <tr> <td data-bbox="1279 1267 1415 1401">Pole junction box (numbers)</td> <td data-bbox="1415 1267 1662 1401">Galvanised ‘D’ iron clamps complete with CI knob ( numbers)</td> <td data-bbox="1662 1267 1865 1401">Aluminum alloy messenger wire of 25 Sq mm to support overhead cables (meter)</td> </tr> </tbody> </table>	U	V	W	Pole junction box (numbers)	Galvanised ‘D’ iron clamps complete with CI knob ( numbers)	Aluminum alloy messenger wire of 25 Sq mm to support overhead cables (meter)
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Sr No	Clause Reference	Clause Description				Clause Revised Description			
43.	<b>SIOM Schedule 5 – Clause 2 (b)</b>	b) Additionally, the Project SPV shall, record and maintain the energy consumption, power outage, dimming hours, hour wise number of estimated functional luminaires, % uptime etc. based on the reports generated from the CCMS on a daily basis from the readings received from the individual streetlight controller equipment installed at each feeder panel.				b) Additionally, the Project SPV shall, record and maintain the energy consumption, power outage, <del>dimming</del> <b>operating</b> hours, hour wise number of estimated functional luminaires, % uptime etc. based on the reports generated from the CCMS on a daily basis from the readings received from the individual streetlight controller equipment installed at each feeder panel.			

**Attention Bidders:**

**Annexure L is to be filled in Excel by Bidder for Computation of Financial quote for respective Cluster A to E.**

**Bidders are requested to visit the OUIDF website for the Excel version of the Annexure L**

**OUIDF Website URL: [www.ouidf.in](http://www.ouidf.in)**

## Financial Proposal- Input Sheet

Please fill the cells highlighted in blue

Input  
CLUSTER A

Equipment Rate		
Particulars	Unit	Rate
<b>LED Luminaires</b>		
LED110	INR per unit	
LED90	INR per unit	
LED70	INR per unit	
LED45	INR per unit	
<b>Poles (SP numbers as per IS 2713 Part III 1980)</b>		
P1-A : "540 SP 34"	INR per pole	
P1-B: "540 SP 36" For Coastal districts	INR per pole	
P2-A: "540 SP 49"	INR per pole	
P2-B: "540 SP 54" for coastal districts	INR per pole	
P-SPL	INR per pole	
<b>Pole Junction Box</b>		
FRP pole junction box including clamps, bolts, 6 A MCB etc	INR per unit	
<b>Outreach arm</b>		
Single Arm Bracket	INR per unit	
Double Arm Bracket	INR per unit	
<b>Smart Feeder Panels</b>		
3 kW Rating	INR / Panel	
5 kW Rating	INR / Panel	
7.5 kW Rating	INR / Panel	
12 kW Rating	INR / Panel	
<b>Unarmoured PVC Cable -1.1 kV - 2C - Aluminium</b>		
C1 - 2.5 Sq. mm.	INR per meter	
C2 - 6 Sq. mm.	INR per meter	
C3 - 10 Sq. mm.	INR per meter	
C4 - 16 OR 25 Sq. mm.	INR per meter	
<b>Galvanised 'D' iron clamps For Holding Overhaed Cables</b>		
Galvanised 'D' iron clamps complete with CI Knob	INR per unit	
<b>Messenger Wire for Overhead Cables</b>		
Aluminum Alloy messenger wire of 25 Sq mm	INR per meter	
<b>Earthing</b>		
Electrodes - 450mm×450mm×10mm thick termination CI plate	INR per unit	
GI Strip - of 25 x 5 mm	INR per meter	
<b>Misc- Base</b>		
Pole Identification Marking	INR per pole	
Hydraulic Lift	INR per lift	
<b>Misc- Automation</b>		
Cluster Level Data Centre (Computer & Web Server)	INR	
Software-Asset Management+Predictive Maintenance	INR	
<b>O&amp;M Fee</b>		
<b>Particulars</b>	<b>Unit</b>	<b>Rate</b>
O&M Fee per fixture per annum	INR/fixture	

**Bid Parameter Sheet**

Bid Parameter Calculation	Value
Total Capital Expenditure (INR Lakhs) (A)	0.00
NPV of Annual O&M Payments (B)	0.00
<b>Bid Parameter (INR Lakhs) (A + B )</b>	<b>-</b>

Particulars	Rate(a)	No. (b)		Cost(a*b)
		INR	Number	
<b>LED Luminaires</b>				
LED110	INR per unit	-	70	-
LED90	INR per unit	-	2,433	-
LED70	INR per unit	-	2,846	-
LED45	INR per unit	-	11,139	-
<b>Poles (SP numbers as per IS 2713 Part III 1980)</b>				
P1-A: "540 SP 34"	INR per pole	-	3,532	-
P1-B: "540 SP 36" For Coastal districts	INR per pole	-	9,961	-
P2-A: "540 SP 49"	INR per pole	-	623	-
P2-B: "540 SP 54" for coastal districts	INR per pole	-	2,280	-
P-SPL	INR per pole	-	-	-
<b>Pole Junction Box</b>				
FRP pole junction box including clamps, bolts, 6 A MCB etc	INR per unit	-	16,396	-
<b>Outreach arm</b>				
Single Arm Bracket	INR per unit	-	16,305	-
Double Arm Bracket	INR per unit	-	92	-
<b>Smart Feeder Panels</b>				
3 kW Rating	INR / Panel	-	341	-
5 kW Rating	INR / Panel	-	76	-
7.5 kW Rating	INR / Panel	-	48	-
12 kW Rating	INR / Panel	-	15	-
<b>1.1 kV - 2C - Aluminium , PVC Insulated Inner sheathed Unarmoured Cable</b>				
C1 - 2.5 Sq. mm.	INR per meter	-	1,59,811	-
C2 - 6 Sq. mm.	INR per meter	-	1,03,043	-
C3 - 10 Sq. mm.	INR per meter	-	85,502	-
C4 - 16 OR 25 Sq. mm.	INR per meter	-	40,371	-
<b>Galvanised 'D' iron clamps For Holding Overhaed Cables</b>				
Galvanised 'D' iron clamps complete with CI Knob	INR per unit	-	16,396	-
<b>Messenger Wire for Overhead Cables</b>				
Aluminum Alloy messenger wire of 25 Sq mm	INR per meter	-	388728	-
<b>Earthing</b>				
Electrodes - 450mmx450mmx10mm thick termination CI plate	INR per unit	-	3,322	-
GI Strip - of 25 x 5 mm	INR per meter	-	3,88,728	-
<b>Misc- Base</b>				
Pole Identification Marking	INR per pole	-	16,396	-
Hydraulic Lift	INR per lift	-	7	-
<b>Misc- Automation</b>				
Cluster Level Data Centre (Computer & Web Software-Asset Management+Predictive Maintenance	INR	-	1	-
	INR	-	1	-
<b>Total Capital Expenditure (A)</b>	<b>INR Lakhs</b>	<b>0.00</b>		
O&M Fee	INR/fixture	-		
Total Number of LED Luminaires	Number	-	16,488	
<b>Annual O&amp;M Payment</b>	<b>INR Lakhs</b>	<b>0.00</b>		

Total Capital Expenditure (A)	-
Upfront financing by Authority	90%
Balance Recovery of Capex	-
Project Term	7
Discount Rate	9%

	1	2	3	4	5	6	7
<b>Discount factor</b>	<b>1.00</b>	<b>0.92</b>	<b>0.84</b>	<b>0.77</b>	<b>0.71</b>	<b>0.65</b>	<b>0.60</b>
Capex component of Annuity Fee	-	-	-	-	-	-	-
Annual Opex	-	-	-	-	-	-	-
<b>Total</b>	-	-	-	-	-	-	-
Levelized O&M per annum (INR Lakhs)	<b>0.00</b>						
<b>Annuity fee (INR lakhs per annum)</b>	<b>0.00</b>						



## Financial Proposal- Input Sheet

Please fill the cells highlighted in blue

Input

CLUSTER B

Equipment Rate		
Particulars	Unit	Rate
<b>LED Luminaires</b>		
LED110	INR per unit	
LED90	INR per unit	
LED70	INR per unit	
LED45	INR per unit	
<b>Poles (SP numbers as per IS 2713 Part III 1980)</b>		
P1-A : "540 SP 34"	INR per pole	
P1-B: "540 SP 36" For Coastal districts	INR per pole	
P2-A: "540 SP 49"	INR per pole	
P2-B: "540 SP 54" for coastal districts	INR per pole	
P-SPL	INR per pole	
<b>Pole Junction Box</b>		
FRP pole junction box including clamps, bolts, 6 A MCB etc	INR per unit	
<b>Outreach arm</b>		
Single Arm Bracket	INR per unit	
Double Arm Bracket	INR per unit	
<b>Smart Feeder Panels</b>		
3 kW Rating	INR / Panel	
5 kW Rating	INR / Panel	
7.5 kW Rating	INR / Panel	
12 kW Rating	INR / Panel	
<b>Unarmoured PVC Cable -1.1 kV - 2C - Aluminium</b>		
C1 - 2.5 Sq. mm.	INR per meter	
C2 - 6 Sq. mm.	INR per meter	
C3 - 10 Sq. mm.	INR per meter	
C4 - 16 OR 25 Sq. mm.	INR per meter	
<b>Galvanised 'D' iron clamps For Holding Overhaed Cables</b>		
Galvanised 'D' iron clamps complete with CI Knob	INR per unit	
<b>Messenger Wire for Overhead Cables</b>		
Aluminum Alloy messenger wire of 25 Sq mm	INR per meter	
<b>Earthing</b>		
Electrodes - 450mm×450mm×10mm thick termination CI plate	INR per unit	
GI Strip - of 25 x 5 mm	INR per meter	
<b>Misc- Base</b>		
Pole Identification Marking	INR per pole	
Hydraulic Lift	INR per lift	
<b>Misc- Automation</b>		
Cluster Level Data Centre (Computer & Web Server)	INR	
Software-Asset Management+Predictive Maintenance	INR	

O&M Fee		
Particulars	Unit	Rate
O&M Fee per fixture per annum	INR/fixture	

**Bid Parameter Sheet**

Bid Parameter Calculation	Value
Total Capital Expenditure (INR Lakhs) (A)	0.00
NPV of Annual O&M Payments (B)	0.00
<b>Bid Parameter (INR Lakhs) (A + B)</b>	<b>-</b>

Particulars	Rate(a)	No. (b)	Cost(a*b)	
			INR	INR Lakhs
<b>LED Luminaires</b>				
LED110	INR per unit	70	-	-
LED90	INR per unit	3,178	-	-
LED70	INR per unit	2,652	-	-
LED45	INR per unit	10,299	-	-
<b>Poles (SP numbers as per IS 2713 Part III 1980)</b>				
P1-A : "540 SP 34"	INR per pole	12,122	-	-
P1-B: "540 SP 36" For Coastal districts	INR per pole	-	-	-
P2-A: "540 SP 49"	INR per pole	3,659	-	-
P2-B: "540 SP 54" for coastal districts	INR per pole	-	-	-
P-SPL	INR per pole	-	-	-
<b>Pole Junction Box</b>				
FRP pole junction box including clamps, bolts, 6 A MCB etc	INR per unit	15,781	-	-
<b>Outreach arm</b>				
Single Arm Bracket	INR per unit	15,361	-	-
Double Arm Bracket	INR per unit	420	-	-
<b>Smart Feeder Panels</b>				
3 kW Rating	INR / Panel	195	-	-
5 kW Rating	INR / Panel	81	-	-
7.5 kW Rating	INR / Panel	69	-	-
12 kW Rating	INR / Panel	17	-	-
<b>1.1 kV - 2C - Aluminium , PVC Insulated Inner sheathed Unarmoured Cable</b>				
C1 - 2.5 Sq. mm.	INR per meter	1,00,872	-	-
C2 - 6 Sq. mm.	INR per meter	1,19,143	-	-
C3 - 10 Sq. mm.	INR per meter	1,21,862	-	-
C4 - 16 OR 25 Sq. mm.	INR per meter	37,184	-	-
<b>Galvanised 'D' iron clamps For Holding Overhaed Cables</b>				
Galvanised 'D' iron clamps complete with CI Knob	INR per unit	15,781	-	-
<b>Messenger Wire for Overhead Cables</b>				
Aluminum Alloy messenger wire of 25 Sq mm	INR per meter	3,79,061	-	-
<b>Earthing</b>				
Electrodes - 450mmx450mmx10mm thick termination CI plate	INR per unit	3,180	-	-
GI Strip - of 25 x 5 mm	INR per meter	3,79,061	-	-
<b>Misc- Base</b>				
Pole Identification Marking	INR per pole	15,781	-	-
Hydraulic Lift	INR per lift	4	-	-
<b>Misc- Automation</b>				
Cluster Level Data Centre (Computer & Web	INR	1	-	-
Software-Asset Management+Predictive Maintenance	INR	1	-	-
<b>Total Capital Expenditure (A)</b>	<b>INR Lakhs</b>	<b>0.00</b>		

O&M Fee	INR/fixture	-
Total Number of LED Luminaires	Number	16,199
<b>Annual O&amp;M Payment</b>	<b>INR Lakhs</b>	<b>0.00</b>

Total Capital Expenditure (A)	-
Upfront financing by Authority	90%
Balance Recovery of Capex	-
Project Term	7
Discount Rate	9%

	1	2	3	4	5	6	7
<i>Discount factor</i>	1.00	0.92	0.84	0.77	0.71	0.65	0.60
Capex component of Annuity Fee	-	-	-	-	-	-	-
Annual Opex	-	-	-	-	-	-	-
<b>Total</b>	-	-	-	-	-	-	-
Levelized O&M per annum (INR Lakhs)	0.00						
<b>Annuity fee (INR lakhs per annum)</b>	<b>0.00</b>						

## Financial Proposal- Input Sheet

Please fill the cells highlighted in blue

Input  
CLUSTER C

Equipment Rate		
Particulars	Unit	Rate
<b>LED Luminaires</b>		
LED110	INR per unit	
LED90	INR per unit	
LED70	INR per unit	
LED45	INR per unit	
<b>Poles (SP numbers as per IS 2713 Part III 1980)</b>		
P1-A : "540 SP 34"	INR per pole	
P1-B: "540 SP 36" For Coastal districts	INR per pole	
P2-A: "540 SP 49"	INR per pole	
P2-B: "540 SP 54" for coastal districts	INR per pole	
P-SPL	INR per pole	
<b>Pole Junction Box</b>		
FRP pole junction box including clamps, bolts, 6 A MCB etc	INR per unit	
<b>Outreach arm</b>		
Single Arm Bracket	INR per unit	
Double Arm Bracket	INR per unit	
<b>Smart Feeder Panels</b>		
3 kW Rating	INR / Panel	
5 kW Rating	INR / Panel	
7.5 kW Rating	INR / Panel	
12 kW Rating	INR / Panel	
<b>Unarmoured PVC Cable -1.1 kV - 2C - Aluminium</b>		
C1 - 2.5 Sq. mm.	INR per meter	
C2 - 6 Sq. mm.	INR per meter	
C3 - 10 Sq. mm.	INR per meter	
C4 - 16 OR 25 Sq. mm.	INR per meter	
<b>Galvanised 'D' iron clamps For Holding Overhaed Cables</b>		
Galvanised 'D' iron clamps complete with CI Knob	INR per unit	
<b>Messenger Wire for Overhead Cables</b>		
Aluminum Alloy messenger wire of 25 Sq mm	INR per meter	
<b>Earthing</b>		
Electrodes - 450mm×450mm×10mm thick termination CI plate	INR per unit	
GI Strip - of 25 x 5 mm	INR per meter	
<b>Misc- Base</b>		
Pole Identification Marking	INR per pole	
Hydraulic Lift	INR per lift	
<b>Misc- Automation</b>		
Cluster Level Data Centre (Computer & Web Server)	INR	
Software-Asset Management+Predictive Maintenance	INR	
<b>O&amp;M Fee</b>		
<b>Particulars</b>	<b>Unit</b>	<b>Rate</b>
O&M Fee per fixture per annum	INR/fixture	

**Bid Parameter Sheet**

Bid Parameter Calculation	Value
Total Capital Expenditure (INR Lakhs) (A)	0.00
NPV of Annual O&M Payments (B)	0.00
<b>Bid Parameter (INR Lakhs) (A + B )</b>	-

Particulars		Rate(a)	No. (b)		Cost(a*b)
			INR	Number	
<b>LED Luminaires</b>					
	LED110	INR per unit	-	245	-
	LED90	INR per unit	-	2,492	-
	LED70	INR per unit	-	2,058	-
	LED45	INR per unit	-	5,946	-
<b>Poles (SP numbers as per IS 2713 Part III 1980)</b>					
	P1-A: "540 SP 34"	INR per pole	-	3,783	-
	P1-B: "540 SP 36" For Coastal districts	INR per pole	-	3,920	-
	P2-A: "540 SP 49"	INR per pole	-	1,470	-
	P2-B: "540 SP 54" for coastal districts	INR per pole	-	1,503	-
	P-SPL	INR per pole	-	-	-
<b>Pole Junction Box</b>					
	FRP pole junction box including clamps, bolts, 6 A MCB etc	INR per unit	-	10,676	-
<b>Outreach arm</b>					
	Single Arm Bracket	INR per unit	-	10,611	-
	Double Arm Bracket	INR per unit	-	65	-
<b>Smart Feeder Panels</b>					
	3 kW Rating	INR / Panel	-	170	-
	5 kW Rating	INR / Panel	-	49	-
	7.5 kW Rating	INR / Panel	-	35	-
	12 kW Rating	INR / Panel	-	22	-
<b>1.1 kV - 2C - Aluminium , PVC Insulated Inner sheathed Unarmoured Cable</b>					
	C1 - 2.5 Sq. mm.	INR per meter	-	83,965	-
	C2 - 6 Sq. mm.	INR per meter	-	63,552	-
	C3 - 10 Sq. mm.	INR per meter	-	59,368	-
	C4 - 16 OR 25 Sq. mm.	INR per meter	-	56,979	-
<b>Galvanised 'D' iron clamps For Holding Overhaed Cables</b>					
	Galvanised 'D' iron clamps complete with CI Knob	INR per unit	-	10,676	-
<b>Messenger Wire for Overhead Cables</b>					
	Aluminum Alloy messenger wire of 25 Sq mm	INR per meter	-	2,63,864	-
<b>Earthing</b>					
	Electrodes - 450mmx450mmx10mm thick termination CI plate	INR per unit	-	2,152	-
	GI Strip - of 25 x 5 mm	INR per meter	-	2,63,864	-
<b>Misc- Base</b>					
	Pole Identification Marking	INR per pole	-	10,676	-
	Hydraulic Lift	INR per lift	-	4	-
<b>Misc- Automation</b>					
	Cluster Level Data Centre (Computer & Web Software-Asset Management+Predictive Maintenance	INR	-	1	-
		INR	-	1	-
<b>Total Capital Expenditure (A)</b>		<b>INR Lakhs</b>	<b>0.00</b>		
<b>O&amp;M Fee</b>		INR/fixture	-		
<b>Total Number of LED Luminaires</b>		Number	10,741		
<b>Annual O&amp;M Payment</b>		<b>INR Lakhs</b>	<b>0.00</b>		

Total Capital Expenditure (A)	-
Upfront financing by Authority	90%
Balance Recovery of Capex	-
Project Term	7
Discount Rate	9%

	1	2	3	4	5	6	7
<b>Discount factor</b>	1.00	0.92	0.84	0.77	0.71	0.65	0.60
Capex component of Annuity Fee	-	-	-	-	-	-	-
Annual Opex	-	-	-	-	-	-	-
<b>Total</b>	-	-	-	-	-	-	-
Levelized O&M per annum (INR Lakhs)	-	-	-	-	-	-	-
<b>Annuity fee (INR lakhs per annum)</b>	-	-	-	-	-	-	-

## Financial Proposal- Input Sheet

Please fill the cells highlighted in blue

Input  
CLUSTER D

Equipment Rate		
Particulars	Unit	Rate
<b>LED Luminaires</b>		
LED110	INR per unit	
LED90	INR per unit	
LED70	INR per unit	
LED45	INR per unit	
<b>Poles (SP numbers as per IS 2713 Part III 1980)</b>		
P1-A : "540 SP 34"	INR per pole	
P1-B: "540 SP 36" For Coastal districts	INR per pole	
P2-A: "540 SP 49"	INR per pole	
P2-B: "540 SP 54" for coastal districts	INR per pole	
P-SPL	INR per pole	
<b>Pole Junction Box</b>		
FRP pole junction box including clamps, bolts, 6 A MCB etc	INR per unit	
<b>Outreach arm</b>		
Single Arm Bracket	INR per unit	
Double Arm Bracket	INR per unit	
<b>Smart Feeder Panels</b>		
3 kW Rating	INR / Panel	
5 kW Rating	INR / Panel	
7.5 kW Rating	INR / Panel	
12 kW Rating	INR / Panel	
<b>Unarmoured PVC Cable -1.1 kV - 2C - Aluminium</b>		
C1 - 2.5 Sq. mm.	INR per meter	
C2 - 6 Sq. mm.	INR per meter	
C3 - 10 Sq. mm.	INR per meter	
C4 - 16 OR 25 Sq. mm.	INR per meter	
<b>Galvanised 'D' iron clamps For Holding Overhaed Cables</b>		
Galvanised 'D' iron clamps complete with CI Knob	INR per unit	
<b>Messenger Wire for Overhead Cables</b>		
Aluminum Alloy messenger wire of 25 Sq mm	INR per meter	
<b>Earthing</b>		
Electrodes - 450mm×450mm×10mm thick termination CI plate	INR per unit	
GI Strip - of 25 x 5 mm	INR per meter	
<b>Misc- Base</b>		
Pole Identification Marking	INR per pole	
Hydraulic Lift	INR per lift	
<b>Misc- Automation</b>		
Cluster Level Data Centre (Computer & Web Server)	INR	
Software-Asset Management+Predictive Maintenance	INR	
<b>O&amp;M Fee</b>		
<b>Particulars</b>	<b>Unit</b>	<b>Rate</b>
O&M Fee per fixture per annum	INR/fixture	

**Bid Parameter Sheet**

Bid Parameter Calculation	Value
Total Capital Expenditure (INR Lakhs) (A)	0.00
NPV of Annual O&M Payments (B)	0.00
<b>Bid Parameter (INR Lakhs) (A + B)</b>	<b>-</b>

Particulars	Rate(a)	No. (b)	Cost(a*b)	
			INR	INR Lakhs
<b>LED Luminaires</b>				
LED110	INR per unit	35	-	-
LED90	INR per unit	1,269	-	-
LED70	INR per unit	2,204	-	-
LED45	INR per unit	6,151	-	-
<b>Poles (SP numbers as per IS 2713 Part III 1980)</b>				
P1-A : "540 SP 34"	INR per pole	7,795	-	-
P1-B: "540 SP 36" For Coastal districts	INR per pole	-	-	-
P2-A: "540 SP 49"	INR per pole	1,819	-	-
P2-B: "540 SP 54" for coastal districts	INR per pole	-	-	-
P-SPL	INR per pole	-	-	-
<b>Pole Junction Box</b>				
FRP pole junction box including clamps, bolts, 6 A MCB etc	INR per unit	9,613	-	-
<b>Outreach arm</b>				
Single Arm Bracket	INR per unit	9,568	-	-
Double Arm Bracket	INR per unit	46	-	-
<b>Smart Feeder Panels</b>				
3 kW Rating	INR / Panel	201	-	-
5 kW Rating	INR / Panel	45	-	-
7.5 kW Rating	INR / Panel	26	-	-
12 kW Rating	INR / Panel	12	-	-
<b>1.1 kV - 2C - Aluminium , PVC Insulated Inner sheathed Unarmoured Cable</b>				
C1 - 2.5 Sq. mm.	INR per meter	92,440	-	-
C2 - 6 Sq. mm.	INR per meter	57,856	-	-
C3 - 10 Sq. mm.	INR per meter	47,121	-	-
C4 - 16 OR 25 Sq. mm.	INR per meter	34,341	-	-
<b>Galvanised 'D' iron clamps For Holding Overhaed Cables</b>				
Galvanised 'D' iron clamps complete with CI Knob	INR per unit	9,613	-	-
<b>Messenger Wire for Overhead Cables</b>				
Aluminum Alloy messenger wire of 25 Sq mm	INR per meter	2,31,758	-	-
<b>Earthing</b>				
Electrodes - 450mmx450mmx10mm thick termination CI plate	INR per unit	1,946	-	-
GI Strip - of 25 x 5 mm	INR per meter	2,31,758	-	-
<b>Misc- Base</b>				
Pole Identification Marking	INR per pole	9,613	-	-
Hydraulic Lift	INR per lift	4	-	-
<b>Misc- Automation</b>				
Cluster Level Data Centre (Computer & Web	INR	1	-	-
Software-Asset Management+Predictive Maintenance	INR	1	-	-
<b>Total Capital Expenditure (A)</b>	<b>INR Lakhs</b>	<b>0.00</b>		

O&M Fee	INR/fixture	-
Total Number of LED Luminaires	Number	9,659
<b>Annual O&amp;M Payment</b>	<b>INR Lakhs</b>	<b>0.00</b>

Total Capital Expenditure (A)	-
Upfront financing by Authority	90%
Balance Recovery of Capex	-
Project Term	7
Discount Rate	9%

	1	2	3	4	5	6	7
<i>Discount factor</i>	1.00	0.92	0.84	0.77	0.71	0.65	0.60
Capex component of Annuity Fee	-	-	-	-	-	-	-
Annual Opex	-	-	-	-	-	-	-
<b>Total</b>	-	-	-	-	-	-	-
Levelized O&M per annum (INR Lakhs)	-	-	-	-	-	-	-
<b>Annuity fee (INR lakhs per annum)</b>	-	-	-	-	-	-	-

# Financial Proposal- Input Sheet

Please fill the cells highlighted in blue

Input  
CLUSTER E

Equipment Rate		
Particulars	Unit	Rate
<b>LED Luminaires</b>		
LED110	INR per unit	
LED90	INR per unit	
LED70	INR per unit	
LED45	INR per unit	
<b>Poles (SP numbers as per IS 2713 Part III 1980)</b>		
P1-A : "540 SP 34"	INR per pole	
P1-B: "540 SP 36" For Coastal districts	INR per pole	
P2-A: "540 SP 49"	INR per pole	
P2-B: "540 SP 54" for coastal districts	INR per pole	
P-SPL	INR per pole	
<b>Pole Junction Box</b>		
FRP pole junction box including clamps, bolts, 6 A MCB etc	INR per unit	
<b>Outreach arm</b>		
Single Arm Bracket	INR per unit	
Double Arm Bracket	INR per unit	
<b>Smart Feeder Panels</b>		
3 kW Rating	INR / Panel	
5 kW Rating	INR / Panel	
7.5 kW Rating	INR / Panel	
12 kW Rating	INR / Panel	
<b>Unarmoured PVC Cable -1.1 kV - 2C - Aluminium</b>		
C1 - 2.5 Sq. mm.	INR per meter	
C2 - 6 Sq. mm.	INR per meter	
C3 - 10 Sq. mm.	INR per meter	
C4 - 16 OR 25 Sq. mm.	INR per meter	
<b>Galvanised 'D' iron clamps For Holding Overhaed Cables</b>		
Galvanised 'D' iron clamps complete with CI Knob	INR per unit	
<b>Messenger Wire for Overhead Cables</b>		
Aluminum Alloy messenger wire of 25 Sq mm	INR per meter	
<b>Earthing</b>		
Electrodes - 450mm×450mm×10mm thick termination CI plate	INR per unit	
GI Strip - of 25 x 5 mm	INR per meter	
<b>Misc- Base</b>		
Pole Identification Marking	INR per pole	
Hydraulic Lift	INR per lift	
<b>Misc- Automation</b>		
Cluster Level Data Centre (Computer & Web Server)	INR	
Software-Asset Management+Predictive Maintenance	INR	

O&M Fee		
Particulars	Unit	Rate
O&M Fee per fixture per annum	INR/fixture	

**Bid Parameter Sheet**

Bid Parameter Calculation	Value
Total Capital Expenditure (INR Lakhs) (A)	0.00
NPV of Annual O&M Payments (B)	0.00
<b>Bid Parameter (INR Lakhs) (A + B)</b>	-

Particulars		Rate(a)		No. (b)		Cost(a*b)	
		INR		Number	INR Lakhs		
<b>LED Luminaires</b>							
LED110	INR per unit	-		70	-		
LED90	INR per unit	-		1,484	-		
LED70	INR per unit	-		1,452	-		
LED45	INR per unit	-		5,751	-		
<b>Poles (SP numbers as per IS 2713 Part III 1980)</b>							
P1-A: "540 SP 34"	INR per pole	-		6,897	-		
P1-B: "540 SP 36" For Coastal districts	INR per pole	-		-	-		
P2-A: "540 SP 49"	INR per pole	-		1,716	-		
P2-B: "540 SP 54" for coastal districts	INR per pole	-		-	-		
P-SPL	INR per pole	-		-	-		
<b>Pole Junction Box</b>							
FRP pole junction box including clamps, bolts, 6 A MCB etc	INR per unit	-		8,613	-		
<b>Outreach arm</b>							
Single Arm Bracket	INR per unit	-		8,470	-		
Double Arm Bracket	INR per unit	-		144	-		
<b>Smart Feeder Panels</b>							
3 kW Rating	INR / Panel	-		136	-		
5 kW Rating	INR / Panel	-		51	-		
7.5 kW Rating	INR / Panel	-		27	-		
12 kW Rating	INR / Panel	-		9	-		
<b>1.1 kV - 2C - Aluminium , PVC Insulated Inner sheathed Unarmoured Cable</b>							
C1 - 2.5 Sq. mm.	INR per meter	-		65,570	-		
C2 - 6 Sq. mm.	INR per meter	-		69,085	-		
C3 - 10 Sq. mm.	INR per meter	-		48,386	-		
C4 - 16 OR 25 Sq. mm.	INR per meter	-		22,274	-		
<b>Galvanised 'D' iron clamps For Holding Overhaed Cables</b>							
Galvanised 'D' iron clamps complete with CI Knob	INR per unit	-		8,613	-		
<b>Messenger Wire for Overhead Cables</b>							
Aluminum Alloy messenger wire of 25 Sq mm	INR per meter	-		2,05,314	-		
<b>Earthing</b>							
Electrodes - 450mmx450mmx10mm thick termination CI plate	INR per unit	-		1,739	-		
GI Strip - of 25 x 5 mm	INR per meter	-		2,05,314	-		
<b>Misc- Base</b>							
Pole Identification Marking	INR per pole	-		8,613	-		
Hydraulic Lift	INR per lift	-		3	-		
<b>Misc- Automation</b>							
Cluster Level Data Centre (Computer & Web Maintenance)	INR	-		1	-		
Software-Asset Management+Predictive Maintenance	INR	-		1	-		
<b>Total Capital Expenditure (A)</b>	<b>INR Lakhs</b>	<b>0.00</b>					

O&M Fee	INR/fixture	-
Total Number of LED Luminaires	Number	8,757
<b>Annual O&amp;M Payment</b>	<b>INR Lakhs</b>	<b>0.00</b>

Total Capital Expenditure (A)	-
Upfront financing by Authority	90%
Balance Recovery of Capex	-
Project Term	7
Discount Rate	9%

	1	2	3	4	5	6	7
<i>Discount factor</i>	1.00	0.92	0.84	0.77	0.71	0.65	0.60
Capex component of Annuity Fee	-	-	-	-	-	-	-
Annual Opex	-	-	-	-	-	-	-
<b>Total</b>	-	-	-	-	-	-	-
Levelized O&M per annum (INR Lakhs)	-	-	-	-	-	-	-
<b>Annuity fee (INR lakhs per annum)</b>	-	-	-	-	-	-	-