

GUWAHATI SMART CITY LIMITED

AMENDMENT /ADDENDUM/ CORRIGENDUM NO. 1

Date:- 07.03.2018

Tender ID No. : 2018_GSCT_5818_1

Tender Notice No. : SPV/GSCL/DEV/68/2017/13 Date: 16.02.2018

Name of Work: Design, Supply, Installation and Maintenance of Project Jyoti Light Pole and Luminaire with all fittings on Design, Built and Operate basis and operation & maintenance for period of 1 (One) year in the city of Guwahati.

In pursuance to the Pre bid meeting held on 27.02.2018 and queries raised by the bidders,
Following are the amendments:

The intending bidders are requested to take the note of the following changes and accordingly
shall have to submit the Tender.

Statement showing the amendments to the existing clause in tender volumes is published online

Reference Of Tender Clause						
Sr No.	Volume No.	Page No.	Clause No.	Para No./Sr No.	Line	
					Instead of	Now read as
1	Volume-11	24	15. Annexure-1	30	Luminaire Housing- Pressure Die Cast Aluminium (grade 5000 or similar) housing with corrosion resistant polyester powder coating & safety as per IEC 60598 / IS 10322. Mounting bracket with aiming & locking facilities. Large surface area with fins to dissipate the heat to ambient air.	Luminaire Housing- Pressure Die Cast Aluminium (grade 5000 or similar) housing with corrosion resistant polyester powder coating & safety as per IEC 60598 / IS 10322. Large surface area with fins to dissipate the heat to ambient air.
2	Volume-11	26	16. Approved Makes	1	Approved makes Swaged Lighting Pole- BAJAJ/ PHILIPS/ VALMONT/ JINDAL POWER/ ASTER/ TRANSRAIL LTD.	Approved makes Swaged/Octagonal Lighting Pole- BAJAJ/ PHILIPS/ VALMONT/ JINDAL POWER/ ASTER/ SKIPPER/ TRANSRAIL LTD /FIRMS COMPLETED SIMILAR PROJECTS IN OTHER SMART CITIES /APPROVED BY A.P.W.D.
3	Volume-11	26	16. Approved Makes	1	Approved makes Cable- UNIVERSAL/RPG/CCI/POLYCAB/ FINOLEX	Approved makes Cable- UNIVERSAL/RPG/CCI/POLYCAB/ FINOLEX/ HAVELLS/ FIRMS COMPLETED SIMILAR PROJECTS IN OTHER SMART CITIES /APPROVED BY A.P.W.D.
4	Volume-11	26	16. Approved Makes	1	Approved makes Lighting Fixtures- PHILIPS/WIPRO/ BAJAJ/ HAVELLS/ APPROVED BY A.P.W.D	Approved makes Lighting Fixtures- PHILIPS/WIPRO/ BAJAJ/ HAVELLS/ SURYA/POLYCAB/HPL/ SYSKA LED/OSRAM/FIRMS COMPLETED SIMILAR PROJECTS IN OTHER SMART CITIES /APPROVED BY A.P.W.D

5	Volu me-II	28	6.26			The Luminaire shall have a warranty period of 2 years and additional years of AMC period as decided.	The Luminaire shall have a warranty period of 5 years as decided.
6	Volu me-I	22	16.2			LM-79 & LM-80 test Report of the LED Luminaire offered from recognized NABL accredited Lab.	LM-79 & LM-80 test Report of the LED Luminaire offered from recognized NABL accredited Lab. LM-80 test report of LED Luminaire certified by globally approved international agencies shall also be considered.
7	Volu me-I	33	Evaluation Criteria 36.16.2 .2	4		Project team Structure Project Manager – 1 No. Qualification – B.E / M.E (Electrical) / MBA Experience – experience in management of electrical project/other similar kind of project in public sector at least 15 years. Project Manager to be available during construction period as well as operation and maintenance period.	Project team Structure Project Manager – 1 No. Qualification – B.E / M.E (Electrical) / MBA Experience – Experience in management of Electrical Infrastructure project including transmission line/power distribution/Street lighting/other similar kind of projects in Public sector/Government sector/Semi-government sector/Private sector at least 15 years. Project Manager to be available during construction period as well as operation and maintenance period.
8	Volu me-II	06	4.5			Pole Design- The GI Swaged tubular Poles shall be designed to withstand the maximum wind speed of 180 kmph as per IS 875. The top loading i.e. area and the weight of fixtures are to be considered to calculate maximum deflection of the pole and the same shall meet the requirement of BS EN 40-3-3:2013.	Pole Design- The GI Swaged tubular Poles/GI Octagonal Poles/GI Round Tubular Poles shall be designed to withstand the maximum wind speed of 180 kmph as per IS 875. The top loading i.e. area and the weight of fixtures are to be considered to calculate maximum deflection of the pole and the same shall meet the requirement of BS EN 40-3-3:2013.

9	Volu me-II	06	5.1			The Light Pole to be installed under Project Jyoti shall consist of a Civil Foundation, Galvanized Iron swaged Tubular Pole with Light mounting arm, LED Luminaire, Advertisement Kiosk, CRCA Junction Box with 24 hr time switch and ELMCB, Connecting flexible cable with dressing accessories/ Supports/ HDPE pipe laid buried, Earthing wire, hardware and other accessories as required.	The Light Pole to be installed under Project Jyoti shall consist of a Civil Foundation, Galvanized Iron swaged Tubular Pole/GI Octagonal Pole/GI Round Tubular Pole with Light mounting arm, LED Luminaire, CRCA Junction Box with 24 hr time switch and ELMCB, Connecting flexible cable with dressing accessories/ Supports/ HDPE pipe laid buried, Earthing wire, hardware and other accessories as required.
10	Volu me-II	26	16. Approved Makes	2		LED chip make- Nichia, Philip lumiled, Osram, CREE	LED chip make- In addition to offered Make list, Toyoda and Seoul make shall be considered.
11	Volu me-I	8	Section -3 Bid Data Sheet	16, 17		Last Date and time for on line bid submission -23-03-2018 Up to 15:00 hr	Last Date and time for on line bid submission - 31-03-2018 Up to 15:00 hr Hard Copy submission- 02-04-2018 up to 11:00 hr

The other terms and conditions described in the tender document will remain unchanged.



Managing Director,
Guwahati Smart City Limited

Name of Work	Design, Supply, installation, maintenance of Project Jyoti Light pole and luminaire with all fittings on Design, Build & Operate basis, with Operation & Maintenance period of 1 (One) Year.		
Tender ID	Tender Notice No.	Date of Pre-Bid Meeting-	27.02.2018
2018_GSC T_5818_1	SPV/GSCL/DEV/68/2017/13		
SR. NO.	CLAUSE REFERENCE	CONTENT IN RFP	POINTS RAISED BY BIDDER
Volume I & II			
			CLARIFICATION BY GSCL
1	Volume II: Technical Specifications & Drawings; Section 6.7 Page No-10	The Luminaire housing shall have single entry suitable for termination of 3C X 2.5 sqmm copper conductor PVC insulated flexible Cable with Flexible Cable Glands.	For LED street light having wattage of less than 15w maximum cable size is 1 to 1.5 sq mm. As for 15w LED street light the current input is around 0.06 to 0.07 Amps
2	Volume II: Technical Specifications & Drawings ; Section 6.9 Page No-10	The manufacturer shall submit the proof of procurement of LEDs from OEMs at the time of testing along with lens test report.	The proof can be submitted at the time of supply
3	Volume II: Technical Specifications & Drawings ; Section 6.11 Page No-10	An extruded silicon loop gasket shall be provided in the lantern body to ensure a weather proof seal between the cover and the metal housing to exclude the entry of dust, water, insects, etc. Luminaire should conform to degree of protection of IP 66 or above. Felt gasket will not be accepted. The test report from NABL accredited laboratory shall be submitted along with the technical proposal/ Bid.	NABL accredited test house are giving the Photo metric & Electrical Parameter test report. IP Testing is a type test which is done in house by Quality Assurance team.
4	Volume II: Technical Specifications & Drawings ; Section 6.15 Page No-10	LED luminaires, should conform to the various National / International standards for safety & performance. Manufacturer should provide test reports as per LM 79 & LM80. The test report from NABL accredited laboratory shall be submitted along with the technical proposal/ Bid for LED as well as Luminaires	LM 79 is from NABL accredited laboratory But LM 80 is generated from LED Chip manufacturer
5	Volume II: Technical Specifications & Drawings ; Section 6.27 Page No- 11 & 12	Testing Of Luminaire	Query No- 1 As per tender all the testing & reports should be done by the Contractor. But it should be either contractor or the manufacturer of LED Luminaires. Query No-2 All the test reports and testing is done in house except 6.27.3 (n) LM79 from NABL Lab & 6.27.3 (o) LM 80 from LED Chip manufacturer.
			<p>Query No- 1: The Contractor shall carry out all Routine Tests on luminaire mentioned in clause no 6.27.1 in manufacturer premises before dispatch. Further, all the Acceptance Tests on the luminaires shall be carried out by GSCL or GSCL's appointed representative at manufacturer premises as mentioned in clause no 6.27.2. Query No- 2: All the Routine Tests and Acceptance Tests shall be carried out in Manufacturer premises except for LM 79, LM 80 and Degree of protection. For other test reports, bidder shall submit inhouse test reports which will indicate compliance with all technical parameters as per technical specification mentioned in Vo-II and also NABL accredited lab test reports for the same parameters before the supply of material.</p>

6	Volume II: Technical Specifications & Drawings ; Section 15 Page No- 22, 23, 24 and 25	LUMINAIRE DATA SHEET Point No- 30 Pressure Die Cast Aluminum (grade 5000 or similar) housing with corrosion resistant polyester powder coating & safety as per IEC 60598 /IS 10322. Mounting bracket with aiming & locking facilities. Large surface area with fins to dissipate the heat to ambient air	Mounting bracket with aiming & locking Facilities. But in Street light there is no mounting bracket and aiming facility.	Noted. Refer amendment.
7	Volume II: Technical Specifications & Drawings ; Section 15 Page No- 22, 23, 24 and 25	LUMINAIRE DATA SHEET Point No- 37 IK protection for Optic Cover- IK 07	Impact resistance is given as IK 07 is given . But for Lower wattage LED street light in industry practice we are using IK 05	Tender clause shall prevail.
8	Volume II: Technical Specifications & Drawings ; Section 15 Page No- 22, 23, 24 and 25	LUMINAIRE DATA SHEET Point No- 39 Minimum Surge Protection >10KV	Surge protection is given as >10KV . Please clarify whether it is addition of internal and external or one single SPD of 10KV.	Surge Protection of >10KV shall be provided internally at each Fixture.
9	Volume I: Instruction to Bidders: Section 6.3 Page No 14	The BIDDER should have satisfactory installed and commissioned at least 800 Nos. or more street light poles with luminaires in last five (5) financial years	As per our Firm having major experience in erecting the poles and installing the transmission line. and we are eligible for point 6.2 having work done greater than 3 cr. for electrical transmission lines works for APDCL. So point no 6.3 is contradicting point no 6.2. Request you to remove the point no 6.3.	Tender clause shall prevail.
10	Volume I: Instruction to Bidders: Section 6.4 Page No 14	The BIDDER should have Average Annual Turnover of minimum INR Rs 4,86/- Cr over the last five (5) financial years	As our average turnover for last 5 years is around 1.91 Cr. Financial Year Total Turnover (Rs) Turnover as per tender Formula (Rs) Growth Over Last year 2012-2013 8229878 12015622 NA 2013-2014 1128719 15011868 37% 2014-2015 11037891 13355848 -3% 2015-2016 23607905 25968696 113% 2016-2017 29408829 29408829 24.50%	Our average turnover growth in last 4 years is 42.8%. As also on Point no 42.4 (E). The payment after every 1000 nos street light will be given by GSCL. So there will be no financial problem on executing the project. So request you to relaxing the turnover criteria mention tender up to 1.80 Cr.

11	Volume I: Instruction to Bidders; Section 36.16.2.2 Page No 32 & 33 Evaluation Criteria	No. Of Lighting poles: 1. The BIDDER should have installed and commissioned nos. Of lighting poles with luminaries in last five financial years 2. Above 800 nos. Up to 1000 Nos. – 8 marks 3. Above 1000 Nos. and up to 3000 nos. – 10 marks 4. Above 3000 Nos. and more. – 15 marks	Erecting of street light pole and normal transmission poles are almost same. So request you to add a criteria of no of poles instead of no of street light poles. So that we can also gain some marks in the technical evaluation and to qualify the cut off mark of 70.	Erecting a street light pole with luminary and erecting a normal transmission pole are technically two different things. Considering experience of Transmission line work in tender clause is only for qualifying financial criteria and not meant for technical. Tender clause shall prevail in this case.
12	Volume I: Instruction to Bidders; Section 36.16.2.2 Page No 32 & 33 Evaluation Criteria	Financial strength: The BIDDER should have average annual turnover of minimum INR over the last three financial year Min 30 percent of tender amount – 8 marks From 30% to 60 % of tender amount – 10 marks Above 60 % of tender amount – 15 marks	Request you to reduce the criteria as justification given in Query 11.	Tender clause shall prevail.
13	Volume I: Instruction to Bidders; Section 3.0 RFP Bid Data Sheet(16) Last Date and time for on line bid submission. Page No 8	Last Date and time for on line bid submission - 23-03-2018 Up to 15:00 hr	Request to extend date of submission further to 2 weeks	Last Date and time for on line bid submission - 31-03-2018 Up to 15:00 hr Hard Copy submission- 02-04-2018 up to 11:00 hr
14	Volume II: Technical Specifications & Drawings ; Section 16 Page No-26	Approved makes Swaged Lighting Pole- BAJAJ/ PHILIPS/ VALMONT/ JINDAL POWER/ ASTER/ TRANSRAIL LTD.	Request to add Skipper make Swaged lighting pole in make list.	Approved makes Lighting Pole- BAJAJ/ PHILIPS/ VALMONT/ JINDAL POWER/ ASTER/ SKIPPER/TRANSRAIL LTD./Firms completed similar projects in other smart cities/Approved by A.P.W.D
15	Volume II: Technical Specifications & Drawings ; Section 16 Page No-26	Approved makes Cable- UNIVERSAL/RPG/CC/POLYCAB/ FINOLEX	Request to add Havells make Cable in make list.	Approved makes UNIVERSAL/RPG/CC/POLYCAB/ FINOLEX/HAVELLS/Firms completed similar projects in other smart cities/Approved by A.P.W.D
16	Volume II: Technical Specifications & Drawings ; Section 16 Page No-26	Approved makes Lighting Fixtures- PHILIPS/ WIPRO/ BAJAJ/ HAVELLS/ APPROVED BY A.P.W.D	Request to add Surya/Polycab make lighting fixture in make list.	Approved makes Fixtures- PHILIPS/ WIPRO/ BAJAJ/ HAVELLS/SURYA/POLYCAB/HPLUSYSKA LED/SRAM/Firms completed similar projects in other smart cities/Approved by A.P.W.D
17	Volume I: Instruction to Bidders; Section 3.8 Page No 07	Design, Supply, installation, maintenance of Project Jyoti Light pole and luminaire with all fittings on Design, Build & Operate basis, with Operation & Maintenance period of 1 (One) Year.	One year from the Date of installation. What about Warranty?	The complete luminaire assembly shall have a warranty period of 5 years as decided.
18	Volume I: Instruction to Bidders; Section 3.24 Page No 08	Maximum Two (2) Members in Joint Venture	Three JV's shall be allowed as per the other Smart city lighting tenders. Smart city projects allows upto three JV's and Global experience shall also accepted for better Quality and competition	Tender clause shall prevail.

<p>19</p> <p>Volume I: Instruction to Bidders; Section 4.18 Page No 11</p>	<p>Total number of poles to be installed under this RFP is 10000 nos</p>	<p>"The project shall be extended for over 10,000nos upon successful completion of phase one (This 10,000 pole installation) considering Guwahati city needs over 50,000 same poles to cover over 1500KM of lanes and sub lanes." This will save time and speedy implementations. Kindly consider of 10,000 stage wises upto the total requirements based on availability of smart city budgeted funds.</p>	<p>Tender clause shall prevail.</p>
<p>20</p> <p>Volume I: Instruction to Bidders; Section 7.1 Page No 15</p>	<p>Joint venture consortium of Maximum Two (2) firms/ members / companies, as partners shall be allowed for the works</p>	<p>Does this TWO Partners exclude Lead Bidder</p>	<p>No</p>
<p>21</p> <p>Volume I: Instruction to Bidders; Section 16.2 Page No 22</p>	<p>LM-79 & LM-80 test Report of the LED Luminaire offered from recognized NABL accredited Lab</p>	<p>The LED Luminary Manufactured outside India LM 79 & LM 80 Certificates already held. Importing Luminaires and testing with NABL certified laboratories in India will take over 30 days. Considering the Bid date is hardly one month from now, Kindly accept the LM79 & LM80 certifications issued globally and the winner can submit the NABL certification of the accepted luminary before signing the agreement for the project.</p>	<p>Accepted</p>
<p>22</p> <p>Volume I: Instruction to Bidders; Section 36.16.2.2 Page No 32 & 33 Evaluation Criteria</p>	<p>Experience : The BIDDER should have completed projects related to i. Urban & Rural street lighting / High mast lighting including erection of poles, luminaries, feeder pillars and cabling & earthing during last five financial years AND/ OR ii. External cabling and earthing works including Street poles related to Building / township projects AND/OR iii. Electrical transmission line works for APDCL including erection of poles, earthing and associated civil works. Worth of amount not less than Rs 3,00/- Crore within last five financial years.</p>	<p>The Manufacturers of LED Luminaires has not given any priority here. The experience sought is only for any contractor whom has done the Lighting projects. Manufacturer's of LED luminary whom has supplied equal number of Luminaires as per this Project requirement (10,000) shall also be considered.</p>	<p>Tender clause shall prevail.</p>
<p>23</p> <p>Volume I: Instruction to Bidders; Section 36.16.2.2 Page No 32 & 33 Evaluation Criteria</p>	<p>No. Of Lighting poles: 1. The BIDDER should have installed and commissioned nos. Of lighting poles with luminaires in last five financial years 2. Above 800 nos. Up to 1000 Nos. – 8 marks 3. Above 1000 Nos. and up to 3000 nos. – 10 marks 4. Above 3000 Nos. and more. – 15 marks</p>	<p>The Contractor has given priority. Not the manufacturer. Kindly add the experience of manufacturer of Luminaires. In case of JV partnership one of the experienced contractor (may be from India/Assam) can support for the installations.</p>	<p>As the scope of work limited to design, installation, testing and commissioning works of street lighting poles. On the basis of that, the equivalent criteria for evaluation works shall be considered. The Eligible Bidder or Contractor can tie up with OEM for supply of Luminaires.</p>

<p>24</p> <p>Volume I: Instruction to Bidders: Section 36.16.2.2 Page No 32 & 33 Evaluation Criteria</p>	<p>Project team Structure Project Manager – 1 No. Qualification – B.E / M.E (Electrical) / MBA</p> <p>Experience – experience in management of electrical project/other similar kind of project in public sector at least 15 years Project Manager to be available during construction period as well as operation and maintenance period.</p>	<p>Experience of five years shall be considered from Public sector works. 100+ Smart city projects in India and shortage of engineers with 15 years Experience in public sector works is difficult. Kindly reduce to 5 years in public sector/Private sector and or with lighting projects globally</p>	<p>Experience in management of Electrical Infrastructure project including transmission line/power distribution/Street lighting/other similar kind of projects in Public sector/Government sector/Semi-government sector/Private sector at least 15 years.</p>
<p>25</p> <p>Volume I: Instruction to Bidders: Section 36.16.2.2 Page No 34 Evaluation Criteria</p>	<p>Submission of LM-79 & LM-80 test report from recognized NABL accredited lab for led as well as luminaire Submission of IP-66 report from recognized NABL accredited lab</p>	<p>The LED Luminaire Manufactured outside India LM 79 & LM 80 Certificates already held. Importing luminaires and testing with NABL certified laboratories in India will take over 30 days. Considering the Bid date is hardly one month from now, Kindly accept the LM79 & LM80 certifications issued globally and the winner can submit the NABL certification of the accepted luminary before signing the agreement for the project.</p>	<p>Accepted</p>
<p>26</p> <p>Volume II: Technical Specifications & Drawings, 4.5 Page No 06</p>	<p>Pole Design- The GI Swaged tubular Poles shall be designed to withstand the maximum wind speed of 180 kmph as per IS 875. The top loading i.e. area and the weight of fixtures are to be considered to calculate maximum deflection of the pole and the same shall meet the requirement of BS EN 40-3-3:2013</p>	<p>Only GI Swaged tubular Poles options are given. Kindly consider GI Octagonal Poles or round poles which has been already installed in guwahati city streetlighting. The GI or SS or Aluminium poles gives good life and better strength. Estimated Costs can be at same level.</p>	<p>Accepted. In addition to GI Swaged tubular Poles, GI Octagonal Poles or GI Round Poles shall be considered. Further, it shall comply all technical specification mentioned in Clause no 8.0 of Vol-II and design of the poles shall be confirmed after approval from Client. Refer Amendment.</p>
<p>27</p> <p>Volume II: Technical Specifications & Drawings, Section 5.1 Page No 06</p>	<p>The Light Pole to be installed under Project Jyoti shall consist of a Civil Foundation, Galvanized Iron swaged Tubular Pole with Light mounting arm, LED Luminaire, Advertisement Kiosk, CRCA Junction Box with 24 hr time switch and ELMCB, Connecting flexible cable with dressing accessories/ Supports/ HDPE pipe laid buried, Earthing wire, hardware and other accessories as required</p>	<p>Advertisement Kiosk. Kindly explain the functions</p>	<p>Advertisement Kiosk is not the part of project. Refer Amendment.</p>
<p>28</p> <p>Volume II: Technical Specifications & Drawings 5.1 Page No 06</p>	<p>The Light Pole to be installed under Project Jyoti shall consist of a Civil Foundation, Galvanized Iron swaged Tubular Pole with Light mounting arm, LED Luminaire, Advertisement Kiosk, CRCA Junction Box with 24 hr time switch and ELMCB, Connecting flexible cable with dressing accessories/ Supports/ HDPE pipe laid buried, Earthing wire, hardware and other accessories as required</p>	<p>24hr time switch. Timer switch has less life and frequent adjustments by the external people or house/commercial owners shall damage easily. LDR (Light Dependent Resistor) is an alternative and has less human Interferences. Kindly add LDR or timer switch. LDR is been used worldwide in every streetlights and or in streetlighting cabinets.</p>	<p>In order to prevent frequent human interference and adjustment by external people, the door of the JB shall be provided with locking and sealing arrangement which enable the CONTRACTOR to seal the JB after setting the time in the time switch. Kindly refer Clause No 5.4 in Vol-2.</p>

<p>29</p>	<p>Volume II: Technical Specifications & Drawings 8.4 Page No 14</p>	<p>The poles shall be hot dip galvanized with seven tank process as per IS 2629:1985 / IS 2633:1986 / IS 4759:1996 standards with average coating thickness of 65 micron. The galvanizing shall be done in single dipping. The zinc Ingot raw material shall be 99.99% pure and procured from reliable sources with Quality Test Certificates</p>	<p>Alternatively SS/Aluminium poles shall be used to avoid corrosion and over 25 years life and with the same cost and withstand 180KM/hr. Kindly allow also SS/Aluminium made poles even <3MM with same strength and its Non corrosive. Galvanising brings lots of pollutants to the Atmosphere and costly. Aluminium considered as a better alternative to GI. Exa: Cars/boats/Plane and in lots of other applications</p>
<p>30</p>	<p>Volume II: Technical Specifications & Drawings 9.5 Page No 15</p>	<p>Minimum requirement for Civil Foundations for the Lighting Pole are as follows: (a) Depth of the foundation considered is 1200 mm minimum. (b) Plan dimensions of footing considered is 900mm x 900mm having depth D=200 mm Minimum</p>	<p>Normally used for seven meter poles. Area inside the individual compounds might be also lesser space considering the Guwahati street/house plans. As there is less impact on vehicles or other moving items Kindly re check if we need to have such a huge base for a 5Mtr. Including 12MM plate for lighting base. We suggest 8MM for a 5mtr height pole.</p>
<p>31</p>	<p>Volume II: Technical Specifications & Drawings ; Section 15 Page No-22, 23, 24 and 25</p>	<p>LED chip make Nichia, Phillip lumiled, Osram, CREE</p>	<p>Kindly also consider LG, Toyoda, Seoul. Kindly consider for better competition in pricing and all falls under the top 10 chip manufacturers.</p>
<p>32</p>	<p>Volume II: Technical Specifications & Drawings ; Section 15 Page No-22, 23, 24 and 25</p>	<p>System Efficacy- ≥ 100 Lm/Watt</p>	<p>100L/watt is too low. The LED chips are now improved to very higher specs. Atleast amend more than 120L/watt and LED efficacy to 150L/watt.</p>
<p>33</p>	<p>Volume II: Technical Specifications & Drawings ; Section 16 Page No-26</p>	<p>Approved makes Swaged Lighting Pole- BAJAJ/ PHILIPS/ VALMONT/ JINDAL POWER/ ASTER/ TRANSRAIL LTD.</p>	<p>There are lots of good pole manufacturers with-in India using the best IRON. Kindly take out the specific names as this is not a specialised pole and other tenders of smart cities in India has not highlighted for a particular company for manufacturing poles. New companies are also making poles in Assam.</p>
<p>34</p>	<p>Volume II: Technical Specifications & Drawings ; Section 16 Page No-26</p>	<p>Approved makes Lighting Fixtures- PHILIPS/ WIPRO/ BAJAJ/ HAVELLS/ APPROVED BY A.P.W.D</p>	<p>Smart city projects is supporting only four fixture manufacturers. From the best Smart City Award Bhubaneswar or other in India has considered other manufacturers from india including global manufacturers. Restricting to only four will not support the Central Govt Entrepreneurship programme and also discourage new manufacturers to grow. As already NABL certifications are required kindly kept the Lighting fixtures manufacturers OPEN. IE/IEC codes sought are specifically supporting certain lighting fixtures manufacturing companies.</p>

Tender clause shall prevail.

Tender clause shall prevail.

In addition to offered Make list, Toyoda and Seoul make shall be considered. Refer amendment.

The Bidder may consider 100LmW as the minimum criteria. However, other factors like Driver current etc. shall remain as specified.

In addition to offered Make list, the makes approved under APWD shall be considered. Refer amendment.

Tender clause shall prevail.