

जयपुर विकास प्राधिकरण, जयपुर

रूम नं. जे.बी. एफ.एफ. 114, कोर्ट भवन,
इन्दिरा सर्किल, जे.एल.एन. मार्ग, जयपुर-302004
दूरभाष :+91-141-2569696, ई-मेल : Cpgupta.jda@rajasthan.gov.in

क्रमांक: जविप्रा/अधि.अभि. (विद्युत- I)/जॉब नं. 265/2023-24/डी- 855

दिनांक: 28.06.2023

बिड आमंत्रण सूचना

बिड संख्या-10/2023-24

जयपुर विकास प्राधिकरण द्वारा “**Conversion of existing HPSV & Normal LED lighting System into NB IoT based LED Smart lighting System, which are installed by JDA at various locations beyond the Jaipur Nagar Nigam Jurisdiction /energy bills paid by JDA**” जिसकी अनुमानित राशि रु. 1166.00 लाख के लिए ऑनलाईन बिड्स दिनांक 20.07.2023 सायंकाल 6:00 बजे तक आमंत्रित की जाती हैं। निविदा बोली का ऑनलाईन आवेदन व भुगतान जयपुर विकास प्राधिकरण पोर्टल पर करने की अन्तिम तिथि 20.07.2023 को सायंकाल 6.00 बजे तक हैं। निविदा बोली के दस्तावेजों का विस्तृत विवरण www.sppp.rajasthan.gov.in, www.eproc.rajasthan.gov.in and www.jda.urban.rajasthan.gov.in पर देखा जा सकता है।

UBN No.

निविदा में भाग लेने वालों को निम्न शर्तों की पूर्ति करनी होगी:-

1. निविदादाता जयपुर विकास प्राधिकरण की वेबसाइट www.jda.urban.rajasthan.gov.in पर पंजीकृत हो एवं निविदा में भाग लेने के लिए बोलीदाता को आवेदन करने के लिए दस्तावेज शुल्क, अमानत राशि, आर.आई.एस.एल. प्रोसेसिंग शुल्क ऑनलाईन जमा करनी होगी।
2. ऑनलाईन निविदा प्रस्तुत करने के लिए निविदादाताओं का राजस्थान सरकार के ई-प्रोक्यूरमेंट पोर्टल www.eproc.rajasthan.gov.in पर पंजीकृत हो।

अधिशायी अभियन्ता-(विद्युत- I)
जविप्रा, जयपुर।

JAIPUR DEVELOPMENT AUTHORITY

Room No. JB FF 114, Court building,
Ram Kishore Vyas Bhavan, Indira Circle, Jawahar Lal Nehru Marg, Jaipur – 302 004
Telephone No. : 91+141-2569696, E-Mail : Cpgupta.jda@rajasthan.gov.in

No:- JDA/EE-(Elect.-I)/Job No. 265 /2023-24/D- 855

Dated: 28.06.2023

NOTICE INVITING BID

NIB No. : 10/2023-24

Online Bids are invited up-to 6.00 PM of 20.07.2023 for "**Conversion of existing HPSV & Normal LED lighting System into NB IoT based LED Smart lighting System, which are installed by JDA at various locations beyond the Jaipur Nagar Nigam Jurisdiction/ energy bills paid by JDA**". Estimated cost of Rs. 1166.00 Lacs. The last date for applying bid and making online payment on JDA portal is up to 6.00 PM dated 20.07.2023. Details may be seen in the Bidding Document at our office or the website of State Public Procurement Portal website www.sppp.rajasthan.gov.in, www.eproc.rajasthan.gov.in and www.jda.urban.rajasthan.gov.in.

UBN No.

To participate in the bid, bidder must:

- A. Participate in Tender & Deposit Payment on 'Online Tender Participation' Portal of JDA at <https://jda.urban.rajasthan.gov.in/jda> or by Single-Sign-On at <http://service.jaipurjda.org>.
- B. Submit e-Bid on 'e-Procurement Portal' of GOR at www.eproc.rajasthan.gov.in

**Executive Engineer-(Elect.-I)
JDA, Jaipur**

JAIPUR DEVELOPMENT AUTHORITY

Room No. JB FF-114, Court Building, Ram Kishore Vyas Bhawan, Indira Circle, Jawahar Lal Nehru Marg, Jaipur -302004
Telephone: +91-141-2569696 e-mail: Cpgupta.jda@rajasthan.gov.in.

No. JDA/E.E (Elect.-I)/2023-24/D- 855

Date: 28.06.2023

NOTICE INVITING BID**NIB No. : 10/2023-24**

Name & Address of the Procuring Entity	<ul style="list-style-type: none"> ➤ Name: Executive Engineer (Elect.-I), Jaipur Development Authority ➤ Address: Room No. JB FF-114, Court Building, Ram Kishore Vyas Bhawan, Indira Circle, Jawahar Lal Nehru Marg, Jaipur – 302 004
Subject Matter of Procurement	<ul style="list-style-type: none"> ➤ Conversion of existing HPSV & Normal LED lighting System into NB IoT based LED Smart lighting System, which are installed by JDA at various locations beyond the Jaipur Nagar Nigam Jurisdiction /energy bills paid by JDA. ➤ 265/2022-23
Bid Procedure	Post Qualification Method (Two Part Envelop), open comparative. e-Bid procedure at http://eproc.rajasthan.gov.in
Bid Evaluation Criteria (Selection Method)	➤ Post Qualification Method (eg.Least Cost Based Selection (LCBS)-L1)
Websites for downloading Bidding Document, Corrigendum's, Addendums, etc.	➤ Websites: www.sppp.rajasthan.gov.in , www.eproc.rajasthan.gov.in , www.jda.urban.rajasthan.gov.in
Estimated Procurement Cost	➤ INR Rs. 1166.00 Lacs (Rs. Eleven Crore Sixty Six Lacs only)
Website for online Bid application and payment *	<ul style="list-style-type: none"> ➤ Website: www.jaipurjda.org ➤ For participating in the Bid, the Bidder has to apply for this Bid and pay the Bidding Document Fee, RISL Processing Fee & Bid Security Deposit online only. <ul style="list-style-type: none"> ○ Bidding document fee: Rs. 2000/- (Rupees Two Thousand only) ○ RISL Processing Fee: Rs. 2500/- (Rupees Two Thousand Five Hundred only) ○ Requisite Bid Security Deposit. ○ The Bidders are required to submit Bid security, cost of Bidding documents, and Bid processing fees through online payment after registering with JDA on www.jaipurjda.org/e-services/e-tender portal. There should be a gap of 3 working days between the End date for Bid Applying, Online Payment & Bid Submission and Bid Opening date. In the absence of the requisite fee, the bid of the concerned bidder will be considered as non-responsive and shall be liable for rejection.
Bid Security Deposit (in favor of Secretary, JDA, Jaipur)	<ul style="list-style-type: none"> ➤ Amount (INR: 2% (Rs 23,32,000.00/-) For E-I class contractors registered in the appropriate class with CPWD, Postal, Telegram, Railway, MES, Other State Government/Central Government undertakings/organizations of Estimated Procurement Cost. (The bidder must capable to bid in the bid as per their enlistment) Or ICT system integrator /Smart City integrator having valid appropriate class electrical license. ➤ 0.5 % (5,83,000.00/-) for Bidder registered as a contractor in the E-I class in JDA. ➤ In case of Departments of the State Government and undertakings, Corporations, Autonomous bodies, Registered Societies, Cooperative Societies which are owned or controlled or managed by the State Government and Government undertakings of the Central Government shall submit a bid securing declaration in lieu of bid security.
Start/End Date for Bid Applying bid and making online payment on JDA portal*	<ul style="list-style-type: none"> ➤ Start Date: 30.06.2023 at 9.30 AM onwards ➤ End Date: 20.07.2023 at 06.00 PM ➤ In case EMD in form BG original bank guarantee is to be submitted in room no MBSF Room no. JB FF-114, Court Building, Ram Kishore Vyas Bhawan, Indira Circle, Jawahar Lal Nehru Marg, Jaipur from dated 21.07.2023 at 9.30 AM to dated 25.07.2023 at 03.30 PM (within three working days from the last date of submission of bid.)
Bid submission on e-procurement portal of GOR*	<ul style="list-style-type: none"> ➤ Start Date: 30.06.2023 at 9.30 AM onwards ➤ End Date: 20.07.2023 at 06.00 PM

Date/time/place of Pre-Bid	<ul style="list-style-type: none"> ➤ 05.07.2023 at 5.00 PM in Manthan Hall, JDA Building, Ram Kishore Vyas Bhawan, Indira Circle, Jawahar Lal Nehru Marg, Jaipur. ➤ Pre-Bid Queries will be accepted on E-mail :-Cpgupta.jda@rajasthan.gov.in dated 07.07.2023 till 05.00 PM
Date/ Time/ Place of Technical Bid Opening	➤ 26.07.2023 at 11.00 AM, Room No. JB FF-114, Court Building, Ram Kishore Vyas Bhawan, Indira Circle, Jawahar Lal Nehru Marg, Jaipur – 302 004
Date/ Time/ Place of Financial Bid Opening	➤ Will be intimated latter to the technically qualified bidders.
Bid Validity	➤ 120 days from the bid submission deadline
Time Period	➤ 04 Months for SITC work and 3 Years O&M from the date of go live
Job No.	➤ JDA/EE-Electrical I/A & F/2022-2023/Nov/265 Dated : 14/11/2022

Procedure for bidding:

Single part bid system:

Single part (Two-envelope) (2 docket) system would be adopted, Docket-1 being for Documents and Docket-2 being for Financial Bid.

Docket-1:- is for proof of deposition of Bid Security, cost of bidding document and bid processing fee along with copy of GST registration, signed Annexure "B" and copy of enlistment as contractor/ bidder in required category.

Docket-2:- is for financial bid.

The financial bid will be opened only for bidders whose proper Bid Security, copy of GST registration, proof for deposition of bidding document fee, RISL processing fee, copy of enlistment of contractor in the required category/ ICT system integrator /Smart City integrator having valid appropriate class electrical license, signed Annexure "B" are found to be in order. Bid Security will be accepted only in the form of online deposition or in the form of Bank Guarantee.

1. Two part bid system:

Two part (Two-envelope) (2 docket) system would be adopted, Docket-1 being for Technical Bid and Docket-2 being for Financial Bid.

Docket-1:- There will be three separate folders- Folder-1 is for proof of deposition of Bid Security, cost of bidding document and bid processing fee along with copy of GST registration, signed Annexure "B" and copy of enlistment as contractor/ bidder in required category or ICT system integrator /Smart City integrator having valid appropriate class electrical license. Folder-II is for bid document and folder-III is for technical bid.

Docket-2:- There will two separate folders-1 is for financial bid and 2 is for bill of quantities.

The technical bid will be opened only for bidders whose proper Bid Security, copy of GST registration, proof for deposition of bidding document fee, RISL processing fee, copy of enlistment of contractor in the required category and signed Annexure "B" are found to be in order. Bid Security will be accepted only in the form of online deposition or in the form of Bank Guarantee.

**Executive Engineer (Elect.-I)
JDA, Jaipur**



JAIPUR DEVELOPMENT AUTHORITY, JAIPUR

www.jda.urban.rajasthan.gov.in

No. JDA/ E.E. & (TA to Dir. Engg.-I)/2022/D-194

Dated: - 6/9/2022

Office Order

In the standard bid document (Two bid system) of JDA. Clause 5: Rejection of Bids, subclause (iii) shall be replaced and read as under with immediate effect:-

S.N.	Provision as per standard Bid document	As per GoR orders F.8(15)Fin/SPFC/2020 dated 17.05.2022
1.	"If all the copies enclosed in support and affidavit is not duly attested by notary public/gazetted officer/Self (as per order No F 14(22)JDA/Estt./2014 Dated 01.01.2015) then bid of the bidder is to be rejected."	The Bidder shall prepare bid in the digital/electronic mode for uploading on e-Procurement portal in the format/type of file specified in evaluation and Qualification criteria 'All the documents uploaded, should be digitally signed with the DSC of authorized signatory, deemed as all the pages of the uploaded documents are signed'.

The following additional condition should be added in the standard Bid document (Two Bid system)

1. The Affidavits and Annexure 'B': be enclosed by the bidder regarding Qualification of RTPP Act-2012 & Rule-2013 along with Bid document, should be signed by the participating bidders before uploading the tender document otherwise the Bid of the bidder will be rejected.
2. In case of single Bid system Annexure 'B': be enclosed by the bidder regarding Qualification of RTPP Act-2012 & Rule-2013 along with Bid document, should be signed by the participating bidders before uploading the tender document otherwise the Bid of the bidder will be rejected.

This will be enforced with immediate effect.


Director Engineering-I
JDA, Jaipur

Copy to:-

1. Director (Engineering-I/II/III/IV), JDA, Jaipur.
2. Director (Finance), JDA, Jaipur.
3. C.F. JDA, Jaipur.
4. All Additional Chief Engineers, JDA, Jaipur.
5. All Superintending Engineers, JDA, Jaipur.
6. All Executive Engineers, JDA, Jaipur for include this in every bid instead of previous condition.
7. O.S.D. (RM)/A.D.R., JDA, Jaipur.
8. Sr. Horticulture, JDA, Jaipur.
9. Sr. A.O., JDA, Jaipur.


Director Engineering-I
JDA, Jaipur

\\Admin\Desktop\Office Order Letter Head-English\UO Note 2022.docx

Ram Kishor Vyas Bhawan, Indra Circle, Jawahar Lal Nehru Marg, Jaipur-302004
Direct Line: (+91-141-2563234) : EPABX : +91-141-2569696 Extn : (7203) : Fax : +91-141-2574555



जयपुर विकास प्राधिकरण, जयपुर

www.jda.urban.rajasthan.gov.in

NO.JDA/DD(E&B)/2023/D-145

Dated: 18-4-2023

OFFICE ORDER

Sub.: Master Bid Document for bids to be invited in "Two Bid System" and "Schedules& specifications" for all types of bids. 2A

In supersession of all the previous approvals/orders for the "Bid Document" and "Schedules& specifications" for all types of bids; the new "Bid Document" for two bid system and "Schedules& specifications" for all types of bids shall be applicable with immediate effect & is hereby enclosed for ready reference. 21/

Therefore, It is directed all the Executive Engineers to adopt the new bid document and schedules & specifications for the bids invited under single part and two part bid systems.

Bid of the bidder (in single part bidding or two part bidding) can be opened only after receipt of following documents in order: -

- i. Proof of deposition of Bid security, bid cost, and Bid processing fees.
- ii. Copy of enlistment as a contractor in the appropriate category.
- iii. Duly fulfilled & signed with seal Annexure "B" in accordance to RTPP Act/Rules.

Two-part bid System will be applicable as under: -

Potential Assessment Method.

For road works - above Rs. 5.00Crore up-to 10.00Crores

For other works - above Rs. 3.00Crore up-to 5.00Crores

Post Qualification Method -

For road works - above Rs. 10.00Crore up-to 20.00Crores

For other works - above Rs. 5.00Crore up-to 15.00Crores

DE-I/R-632
21-4-23

गणेशिओर व्याम भवन दन्दिग मर्किल जताहर लाल नेहरु मार्ग जयपुर-302004

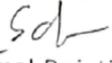
Pre-Qualification Method -

For road works - above Rs. 20.00Crore

For other works - above Rs. 15.00Crore

Note: Any change/modification if required with reference to approved Bid Conditions & Special Condition required to be added additionally, shall beget approved from Executive Committee prior to invitation of the bid.

It bears approval of competent authority


(Onkarmal Rajotiya)
Director (Finance)

Copy to the following for information and necessary action:-

1. P.S. to JDC, JDA, Jaipur.
2. Director (Engineering-I/II), JDA, Jaipur.
3. Director (Finance), JDA, Jaipur.
4. OIC (Engineering-III/IV), JDA, Jaipur.
5. All Additional Chief Engineer, JDA, Jaipur.
6. Additional Director(R&DP), JDA, Jaipur.
7. All Superintending Engineers, JDA, Jaipur.
8. D.D.(E&B) & Sr. A.O., JDA, Jaipur.
9. All Executive Engineers, JDA, Jaipur.
10. Guard File.


Director (Finance)

जयपुर विकास प्राधिकरण, जयपुर
www.jdaurban.rajasthan.gov.in

SDC
05/04/23

क्रमांक: जविप्रा/तसनिअ-प्रथम/2022-23/डी-743

दिनांक 29/03/23

कार्यालय आदेश

जविप्रा में पंजीकृत विभिन्न संवर्ग की विभिन्न श्रेणियों के 5 वर्ष पूर्ण हो चुके स्थायी पंजीयको के रिव्यू हेतु समय-2 पर जारी आदेशों एवं कार्यालय आदेश क्रमांक 324 दिनांक 28.09.2022 के द्वारा दिनांक 31.12.2022 तक रिव्यू किया जाना था जिसे आदेश क्रमांक 516 दिनांक 30/12/22 के द्वारा बढ़ाकर 31.03.2023 तक किया गया था। जयपुर विकास कॉन्ट्रेक्टर्स एसोशियेशन के पत्र क्रमांक 29 दिनांक 28/03/2023 द्वारा अन्तिम अवसर देते हुए एक माह की समय सीमा बढ़ाने हेतु किये गये निवेदन को स्वीकार करते हुए रिव्यू तिथि दिनांक 30 अप्रैल 2023 की जाती है।

समस्त संवेदकों को अन्तिम नोटिस/सूचना दी जाती है कि "जिन संवेदको के पंजीयन को 5 वर्ष 3 माह पूर्ण हो चुके हैं वे अपने पंजीयन आदेशों का रिव्यू दिनांक 30.04.2023 तक करा लें। दिनांक 1 मई 2023 से जारी निविदाओं में पंजीयन का रिव्यू (Review) करवाये बिना भाग नहीं ले सकेंगे। शेष नियम एवं शर्तें आदेश क्रमांक 324 दिनांक 28.09.2022 के अनुसार ही लागू होगी।"

उक्त आदेश सक्षम स्तर से पुष्ट हैं।

SD
निदेशक अभियांत्रिकी-प्रथम
जविप्रा, जयपुर

क्रमांक: जविप्रा/तसनिअ-प्रथम/2022-23/डी-743

दिनांक 29/03/23

प्रतिलिपि:-

1. निजी सचिव, जयपुर विकास आयुक्त, जयपुर।
2. निजी सचिव, सचिव जविप्रा, जयपुर।
3. निदेशक अभियांत्रिकी-प्रथम/द्वितीय जविप्रा, जयपुर।
4. निदेशक (वित्त), जविप्रा, जयपुर।
5. अतिरिक्त मुख्य अभियंता एवं प्रभारी अधिकारी, अभियांत्रिकी-III/IV, जविप्रा, जयपुर।
6. वनसंरक्षक जविप्रा, जयपुर।
7. समस्त अतिरिक्त मुख्य अभियंता जविप्रा, जयपुर।
8. समस्त अधीक्षण अभियंता जविप्रा, जयपुर।
9. ओ.एस.डी. (आर.एम.) जविप्रा, जयपुर।
10. अति. निदेशक (राजस्व)/मुख्य लेखाधिकारी (पीएण्डए)/उप निदेशक (व्यय एवं बजट) जविप्रा, जयपुर।
11. संयुक्त आयुक्त (सिस्टम मैनेजमेन्ट) जविप्रा, जयपुर।
12. जनसम्पर्क अधिकारी जविप्रा, जयपुर को भेजकर निवेदन है कि सूचना समाचार पत्र में प्रकाशित करने का श्रम करें।
13. वरिष्ठ उद्यानविज्ञ जविप्रा/समस्त अधिशाषी अभियंता जविप्रा, जयपुर को भेजकर लेख है कि 1 मई 2023 से आमंत्रित निविदाओं में निम्न शर्त का अंकन करें :-
जिन संवेदको के पंजीयन को 5 वर्ष 3 माह पूर्ण हो चुके हैं उन्हें पंजीयन का रिव्यू नहीं करवाये जाने तक दिनांक 1 मई 2023 से आमंत्रित निविदाओं में भाग लेने से वंचित किया जाता है।
14. सिस्टम एनालिस्ट जविप्रा, जयपुर।
15. समस्त ठेकेदार एसोसिएशन जविप्रा, जयपुर।
16. नोटिस बोर्ड जविप्रा, जयपुर।
17. रक्षित पत्रावली।

35/6
29/03/2023
अधीक्षण अभियंता एवं
तक. सहा. निदे. अभि-प्रथम
जविप्रा, जयपुर



जयपुर विकास प्राधिकरण, जयपुर

www.jda.urban.rajasthan.gov.in

क्रमांक जविप्रा/निदे. (वित्त)/2022/डी-37

दिनांक 22-09-2022

कार्यालय आदेश

विषय:- जविप्रा में निविदाओं में BSR दरों से कम दर डालने पर अन्तर राशि जमा कराने बाबत।

जयपुर विकास प्राधिकरण में आमंत्रित निविदाओं में अतिरिक्त परफोरमेन्स गारन्टी/सिक्योरिटी डिपॉजिट के संबंध में जविप्रा के आदेश क्रमांक जविप्रा/अधि. अभि./त.स. नि.अभि.-1 /2021/डी-65 दिनांक 22.07.2021 तथा नगरीय विकास विभाग के आदेश प01 (24) नविवि/01/2020 लूज दिनांक 20.09.2021 को Withdraw करते हुए वित्त (GF&AR) विभाग की अधिसूचना नम्बर F2(1)FD/G&T(SPFC)/2017 दिनांक 22.10.2021 से RTPP Rule 75 "अ" के अनुसार लेने के प्रावधान को लागू किया जाता है।

निदेशक (वित्त)
जविप्रा, जयपुर

प्रतिलिपि निम्न को सूचनार्थ एवं आवश्यक कार्यवाही हेतु

1. निजी सचिव, प्रमुख शासन सचिव, नगरीय विकास विभाग, राजस्थान सरकार, जयपुर।
2. निजी सचिव, आयुक्त, जविप्रा, जयपुर।
3. सचिव, जविप्रा, जयपुर।
4. वन संरक्षक, जविप्रा, जयपुर।
5. निदेशक (अभियांत्रिकी-I, II, III, IV), जविप्रा, जयपुर।
6. निदेशक (वित्त, विधि, नगर आयोजना), जविप्रा, जयपुर।
7. मुख्य नियन्त्रक (प्रवर्तन), जविप्रा, जयपुर।
8. अतिरिक्त मुख्य अभियंता (अभियांत्रिकी प्रकोष्ठ-III, IV), जविप्रा, जयपुर।
9. अतिरिक्त निदेशक (राजस्व एवं सम्पत्ति निस्तारण), जविप्रा, जयपुर।
10. समस्त अति. मुख्य अभियन्तागण/अधीक्षण अभियन्तागण, अधि. अभियन्तागण जविप्रा जयपुर।
11. समस्त व. लेखाधिकारी/लेखाधिकारी, जविप्रा, जयपुर।

निदेशक (वित्त)
जविप्रा, जयपुर

Jaipur Development Authority, Jaipur

Office Order

No. : JDA/IT(1074501)/E-Services/2015-16/D-399

Dated: 4-10-2016

Subject: Payment mechanism for participating in tender.

Jaipur Development Authority has decided to receive Earnest Money Deposit (EMD) (Bid Security), Tender Fee and RISL processing fee online through JDA Portal. The bid security options available in tender for participants are as mentioned below:

A. Payment Options:

Option-1: Bank Guarantee (BG) against EMD / Bid Security

Bidder may opt Bank Guarantee (BG) against EMD (Bid Security), for which bidder requires to prepare BG before applying in the tender. The details of BG requires to be fed on JDA portal before paying balance amount (Tender Fee + RISL Processing Fee). This amount will be paid through **Payment Gateway only**, option to make balance payment through EFT (RTGS/NEFT) will not be available.

If bidder does not opt for BG against EMD, options of making complete payment through Payment Gateway or through EFT (NEFT / RTGS) will be available.

Option-2: Electronic Fund Transfer (EFT: NEFT/RTGS)

If the bidder selects payment mode as EFT (NEFT/RTGS), "Paying Slip for EFT (NEFT/RTGS)" will be generated by the system for the complete amount. The payment can be made from **any Bank any Branch** using this Paying Slip through NEFT/RTGS (Claim against payment made through EFT in any other JDA bank account will not be acceptable and bidder stands disqualified from participation in the bid applied for). After successful transaction through NEFT/RTGS, as per the standard procedures it may take 4 to 24 hours in process of confirmation of EFT through Auto-Process depending on the time of EFT done. Therefore, option to make payment through EFT (NEFT/RTGS) will be available till 2 days prior to closing date of bid participation.

Option-3: Payment Gateway (Aggregator)

The facility to make payment through Debit Card, Credit Card, Net banking etc., will be available. User can use this facility from **anywhere any time** till the closing date & time of bid participation.

B. Bid Participation Receipt

After confirming payment, the bidder will get Bid Participation Receipt on the basis of which user will get the payment details along with other details for bidding on e-Procurement portal of GOR.

- In case of BG as the remaining payment will be done through Payment Gateway, on successful transaction the "Bid Participation Receipt" will be generated on real time basis.

- In case complete payment is done through Payment Gateway, on successful transaction the "Bid Participation Receipt" will be generated on real time basis.
- In case complete payment is done through EFT (NEFT/RTGS), on confirmation of payment from ICICI Bank (Auto Process) "Bid Participation Receipt" will be available on Login of Bidder on JDA portal.

This payment mechanism will come into force w.e.f 15/10/2016. Thereafter, old payment mechanism related to NEFT/ RTGS in which the bidder makes direct payment without "Paying Slip for EFT (NEFT/RTGS)" in JDA's bank account will be discontinued.

All procuring entities are hereby directed to clearly mention this procedure in NIB document.


(Pawan Arora)
Secretary

Copy for information and further necessary action to:

1. P.S. to JDC, JDA, Jaipur.
2. P.S. to Secretary, Secretary, JDA, Jaipur.
3. Director (Law / Finance / Town Planning / Engineering-I / Engineering-II), JDA, Jaipur.
4. All Additional Chief Engineer _____, JDA, Jaipur
5. DC (Administration)/DC(Store)/DC (Vehicle), JDA, Jaipur
6. System Analyst, JDA, Jaipur
7. Analyst-cum-Programmer, JDA to ensure integration of software w.e.f 01/10/2016.
8. All Xen _____, JDA, Jaipur.
9. Officer-in-charge, SPPP Portal, Jaipur.
10. OSD (Public Relation) / PRO, JDA, Jaipur.


(Brijesh Kishore Sharma)
OSD (RM)

Bidder has to submitted as proof of deposited amount against the Bid on e-Procurement Portal

Jaipur Development Authority

Bid Participation Receipt

Date & Time : 09/06/2015 05:13 PM

Bid Detail

Bid Id : 6215152001	Procurement Entity : XXXXXXXXXXXXXXXX
Bid Title : Testing	
Bid Value : 300000	Bid Opening Place : Manthan Hall, Jaipur Development Authority

Bidder Detail

Name of Entity :	XXXXXXXXXXXXX	Mobile:	9829012345
Registration Type:	Individual	Instrument Amount :	32500.00
Payment Mode:	Online/UTR	Payment Channel :	Payment Gateway/ICICI Branch - JDA
Instrument No :	456123789	Instrument Date :	17-06-2015

Dates Detail

Sr. No.	Event Name	Event Date
1	Publishing Date	01/06/2015 01:00 PM
2	Bid Opening Date	01/07/2015 03:00 PM

Specific Instrument Detail for eProc Rajasthan

Instrument Type: DD			
Instrument Number	Head Name	Amount	Date
10000	Tender Fee	400.00	05/06/2015
10001	RISL Processing Fee	1000.00	05/06/2015
10002	Bid Security Deposit	30,000.00	05/06/2015
Issuer Detail : Jaipur Development Authority		ChallanNumber: 641515600014	

JAIPUR DEVELOPMENT AUTHORITY, JAIPUR

Special Terms & Conditions for Electrification work.

The Contractor has to give the performance guarantee of the following materials for the period mentioned against them from the date of completion of work:

(a)	Transformers	30 Months
(b)	All types of Insulators	18 Months
(c)	ACSR Conductors	6 Months
(d)	Isolators	6 Months
(e)	Horn gap fuse set	6 Months
(f)	LT Pillar Box	6 Months
(g)	All types of HT/LT cables	18 Months

1. DLP period for various type of above works will now be governed by Director (Engineering-I) office order no. 29 dated 11.03.2016 (Copy Enclosed named by DLP period)
2. The Contractor has to arrange for the permission for the charging of electrical system from the Electrical Inspector Govt. of Rajasthan. He will have to deposit the necessary fees, which shall be reimbursed by Jaipur Development Authority.
3. The contractor has to arrange the test i.e. UL test for LED lights, CTL test for cables/wire, Pole testing and other test are required by engineer in-charge and sampling of material. He will have to deposit the necessary fees, which shall be reimbursed by JDA.
4. The contractor will coordinate for the system handing over and charging process and if any defects, is pointed out by the RSEB/JVVNL/PWD/JNN, then he will have to rectify the same.
5. The final bill shall be paid after the lines and substations are handed over to RSEB/JVVNL/PWD/JNN and system is charged.
6. Inspection shall be bear by the contractor itself.
7. The material shall be purchased from the firms, which are also supplying the material to RSEB/JVVNL.
8. All HT/LT cables should be sequentially marked with cable size & length duly embossed.
9. The contractor shall return unused material issued to him by the deptt. If desired by the Engineer in-charge and in case, of failure to do so he shall be charged for such unreturned material at double the issue rate including storage and supervision charges or the market rate whichever is higher. The basis of the theoretical consumption and allowing for wastage @ 5% at double the issue rate including storage and supervision charges or market rate whichever is higher.
10. **The contractor shall be fully responsible to follow safety code as per IS 3764:1992 (upto date). The work should be executed without damaging existing water pipe line, LT/HT electric underground cable, poles, existing surface drain, water connections, Telephone cables etc. In case of any damages the penalty/ liability imposed for such work shall be borne by the contractor and shall be got repaired immediately by arranging material/ labor/ assistance etc. In case of delay JDA reserve right to execute/ get executed the work at the cost and risk of the contractor.**
11. It is a mandatory condition that contractor will get all insulated material tested from CTL of JVVNL before using it at site.

**Executive Engineer (Elect.-I)
JDA, Jaipur**

I carefully study & do agree for above terms & Conditions.

Signature & Seal of the Contractor

JAIPUR DEVELOPMENT AUTHORITY, JAIPUR

DETAILED SPECIAL CONDITION AND SPECIFICATIONS

1. The scope of the Schedule 'H' and 'G' comprises HT/LT Line work on the road mentioned in schedule 'G'
2. The tubular poles are proposed to be erected generally in the median strip of the road or sides unless otherwise instructions are given to change the alignment.
3. The road in question in national, highway / important only road and as not only heavy traffic passes through the road but all the VIPs also pass through it the before it will be the contractor responsibility the provide all retendered caution signs during the execution of work at his own cost in order in to avoid any mis-happening.
4. No opening shall be left uncovered during night. The bidder shall make all arrangement to avoid any claim if preferred on his account shall be the liability of the bidder.
5. No road or part of the road shall be cut without taking the prior permission in writing from the competent authority. The permission shall be arranged by bidder on the request of JDA. However, any changes will be borne by JDA.
6. The contractor shall be deemed to have carefully examined the specifications general condition and tender drawing etc. and they have been fully informed and have satisfied himself as to the nature and character of the work to be executed site conditions and other relevant matters and details.
7. References to standard code specifications recommendation shall mean the attested addition of such publications of the work to be executed at site before the date of invitation to submit proposals.
8. The excavated material shall be place within 1.5 Mtr. of the edge the half of the depth of the trench with have is more site clear shall be done within 24 hours.
9. The work shall be carried out strictly complying within Indian Electricity Rules in forces and as per specifications for Electrical work issued by PWD Raj., Jaipur 1980.
10. **Trenching:** The trenches shall be of shaper size as instructed by the Engineer-In-Charge.
 - (a) **Width**
 - (i) The minimum width of trench for laying single cable shall be 35 Cm.
 - (ii) Where more than one cable is to be laid in the same trench in horizontal formation. The width of the trench shall be increased such that the spacing between the cables shall be at least 20 Cm.
 - (b) **Depth:**
 - (i) Where cable core laid in single tier formation in the total depth of shall not be less than 75 cm for cable upto 1.1 KV.
 - (ii) When more than one tier of cable is unavoidable and vertical formation of laying is adopted depth of trench in (i) above shall increases by 30 cm for each additional tier to be formed.
 - (iii) The depth shall be 1.0 Mtr. of 11 KV, 1.5 Mtr. For 33 KV.
 - (c) **Excavation**

The trench must be excavated straight and if it is necessary to give band or curve radius of such trench shall be at least 12 time the overall dia meter of the cable.
 - (d) **Placing of the Cable**

The cable must be places in the trench on band of fine sand of 8 cm thick bed, and the cable shall be laid below water and sewer lines.
 - (e) For the safe guard of cable it must have covering of clean dry rever sand or any other type of soil as directed by Engineer-In-Charge in not less than 17 cm.
 - (f) **Protection**

To protect the cable against mechanical damages the second class bricks or stone katla as specification shall be placed over the cable width wise.

11. Satisfactory type/acceptance test that results wherever applicable conducted from Govt./Govt. approved laboratory as per ISS shall be submitted prior to use. The routine tests of cable shall be conducted only after delivery at site at his own cost.
12. **Earthing**
The ground Earthing shall be done generally confirming to IS specification of 3043-1966 all the work earth terminal be provided duly crimped/soldered.
13. **Controlling Panels**
The controlling panels such as main panel service pillar box and fuse boxes are to be installed in span. The rubber gasket bedding of high quality rubber is to be provided around all operable parts. The all hard works should be made corrosion resistant giving all chemical treatment before its fabrication and before final coat desired colour painting and red oxide primer should be applied. All internal connectives are to be made with PVC insulated copper conductor with copper lugs duly crimped. The internal wiring shall be arranged with clips the bus bars and connection shall consist of drawn high conductivity copper strip with PVC 3 leaves tops of phase colours.
14. **Submission of drawing by the contractor**
The following two drawings are required to be submitted by the contractor.
 - (i) **Main Panel Drawing:** The Contractor shall submit the drawing of main panel all dimensions all internal connection of diagram, well before its fabrication and obtain prior approval of the drawings from the competent authority.
 - (ii) **Completion drawings:** The contractor shall submit the completion drawings of the project showing the routes of the cable and position of panel etc.
15. **Testing**
The following test shall be performed by the contractor at his own cost.
 - (i) **Continuity and installation test of cable:** The contractor shall arrange for the continuity of cable for well use of the perfect of the cable.
 - (ii) **Mager Testing:** The whole installation shall be arranged to be test by contractor after its completion shall in presence of Engineer-In-Charge and results shall be rechecked and signed jointly.
16. Earthing Testing: Earth test shall be performed by the contractor and results will be used be recorded and signed jointly.
17. Any other test for cable etc. required shall be arranged by the contractor.
18. No condition of any short except as provided in the printed form schedule of quantities will be entertained.
19. Conditions given in the bid form apply in full.
20. The contractor shall have to obey the labour laws. The labour shall have to pay monthly and shall have first line on the bill of contractor, in case of complaint of labour and nonpayment of wages is received to the department.
21. The rate of every item should be quoted against each in figures and in words as well for complete Non BSR Items.
22. In case of any typographical error in nomenclature, unit and rate, the rates as per BSR on which 'G' Schedule is prepared shall be binding on the tenders.
23. In case of any dispute the Executive Engineer (Electrical-III) decision shall be final.
24. The bidders are expected to be fully conversant with the general and special conditions of contract in force in this office. They must see the site of work acquaint themselves of the position of the materials. Fluctuation of the rates in the market, see the schedule and plans in the office and remove doubts, if any, before submitting their tenders.
25. The JDA is not responsible for arranging any material whatsoever any the contractor will have to complete the work within the specified time with specified material and approved accessories, from the stock, non-availability of material or delay in the consignment will not be entertained to as an excuse for extension of time for completion of work.

26. Contractor will not be paid extra for sales or any other tax.
27. Bid must be submitted on the prescribed forms duly signed by the bidder on every page.
28. All entries by the bidder should be in on ink only. Erasers and over writings are not permissible. All cancellation correction and insertions must be signed by the bidder.
29. Rate quoted should be given for the work, separately in words and figures in case there is any difference in rates between words and figures the lower of the two will be taken as correct.
30. All the papers signed by the parties to this contract and bond together and sealed shall deemed to form part of the contract bond and shall be read as conditions of contract.
31. In every case in which by virtue for the provisions of section 12 sub section (I) of the workman's Compensation Act. 1923 cost is obliged to pay compensation to a workman employed by the contractor or by a sub-contractor for execution to said work Govt. will recover from the contractor the amount of the compensation paid and without prejudice to the rights of Govt. under section 12 sub section (2) of the said Act, Govt. shall be at liberty to recover such amount or any part thereof by deducting if from the earnest money deposited by the contractor to his credit or any other sum due by Govt. to the contractor whether under this contract or otherwise.
32. The contractor should have submit safety certificate for equipment each year separately in maintenance period.
33. The contractor shall arrange the certificate from electric inspector on completion of the electric installation at his own. However, any fee to be paid on this account shall be paid by the JDA.
34. The entire material should be as per JDA BSR 2016 of Electrical work of Schedule 'G' & specified main materials of schedule 'H' and shall be of ISI marked.

I/We have carefully study the instructions / conditions mentioned above & do hereby undertake to agree for the same.

**SIGNATURE OF CONTRACTOR
WITHFULL ADDRESS:**

**EXECUTIVE ENGINEER (Elect.-I),
JDA, JAIPUR**

Note:-

1. किसी भी निविदा को बिना कारण बताये निरस्त किया जा सकता है।
2. आवेदक / संवेदक को निविदा प्राप्त करने के लिये आवेदन के साथ पंजीयन प्रमाण पत्र की प्रति प्रस्तुत करना अनिवार्य है।
3. आवेदक / संवेदक को निविदा प्रपत्र पर अपना पता एवं दूरभाष नम्बर अंकित करना अनिवार्य है।

SCHEDULE AND SPECIFICATIONS

SCHEDULE - A: INFORMATION USEFUL FOR THE CONTRACTORS:

The bidder should see the site and fully understand the conditions of the site before bidding and include all leads, lift etc for the material in his item rate/percentage to be quoted on the rates given in Schedule 'G'. The work shall be carried out in accordance with the Rajasthan PWD detailed specification and to the entire satisfaction of the Engineer - In - Charge of the work.

SCHEDULE - B: LIST OF THE DRAWING TO BE SUPPLIED BY THE DEPARTMENT

The drawing may be seen in the office of the undersigned.

SCHEDULE - C: LIST OF THE DRAWING TO BE SUPPLIED BY THE CONTRACTOR: List of the drawing to be supplied by the contractor NIL. But the contractor shall have to arrange at his own cost drawings required for the work after deposition necessary cost with JDA.

SCHEDULE - D: TEST OF THE MATERIALS:

The test of the materials and workmanship shall be conducted by the JDA staff as necessary. The result of such tests should confirm to the standards laid down in the Indian standard & or the standards laid down in the detailed specifications of the work by the contractor. Qualified personnel required as per the contractor enlistment rules shall have to be engaged at site by the Contractor. The authority reserves the right to engage such staff and recover the expenses from the contractor on such account in case of his failure to do so.

SCHEDULE - E: SAMPLES OF THE MATERIALS:

The sample of the materials to be used by the contractor shall be deposited 15 days in advance with the Engineer In charge and be got approved by him before use.

SCHEDULE - F: TIME OF COMPLETION:

The work should start within 10 days of the issue of the work order and complete within time limits.

SCHEDULE - G: ATTACHED SEPARATELY BASED ON APPLICABLE BSRs IN JDA.

SCHEDULE - H: SPECIAL CONDITION: Attached Separately.

SCHEDULE - I: COST OF TENDER DOCUMENTS, PROCESSING FEES & BID SECURITY.

The Bid Processing fee is payable in favor of M.D. RISL & Cost of bid document & Bid Security is payable in Favour of the Secretary, JDA, Jaipur. Bidders have to pay bid processing fees, cost of bidding documents, and Bid Security through Online. **If a bidder opts to deposit the bid security through bank guarantee, the bank guarantee should be valid for the next seven months after the bid opening date. A copy of the such bank guarantee will be required to be attached with the bid submission documents uploaded on the E-procurement portal of GOR. The bank guarantee will be physically handed over upto prescribed time to Nodal officer of the on-line tendering system of JDA i.e. D.D(E&B) in room No. 215N Extension building, JDA, JLN marg, Jaipur, as per specified in bidding documents,**

Executive Engineer-(Elect.-I)
JDA, Jaipur

SPECIAL CONDITIONS

SCHEDULE 'H'

01. If there is any typographical error or otherwise in the 'G' Schedule, the rates given in the relevant BSR on which Schedule 'G' has been prepared, shall prevail.
02. The bidder shall follow the provisions of the builder labour regulation and abolition Act, 1970 & Rule, 1971.
03. The JDA shall have the right to cause an audit for technical examination of the work and the final bills of the bidder including all supporting vouchers, abstracts etc. to be made within two years after payment of the final bills and if as a result of such audit, any amount is found to have been overpaid / excess in respect of any work done by the bidder under the contract or any work claimed by him to have been done under this contract and found not to have been executed, the bidder shall be liable to refund such amount and it shall be lawful for the JDA to recover the such sum from him in the manner prescribed in special condition no. 8 or any other manner legally permissible and if it is found that the bidder was paid less than that was due to him under the contract in respect of work executed by him under it, the amount of such underpayment shall be paid by the JDA to the bidder.
4. Wherever any claim against the bidder for the payment of a sum of money arises out of under the contracts, the JDA shall be entitled to recover the sum by appropriating in part or whole of the performance security of the bidder, In the event of the security being insufficient or if no security has been taken from the bidder then the balance of the total sum recoverable as the case may be deducted from any sum then due or which at any time their contract with the JDA should this sum be sufficient to recover the full amount recoverable. The bidder shall pay to JDA on demand the balance remaining due. The JDA shall further have the right to affect such recoveries under P.D.R. Act.
5. The rate quoted by the bidder shall remain valid for a period of 120 days from the date of opening of the bids.
6. By submission of the Bid the bidder agrees to abide by all printed conditions provided in the PWD manual from 64 (Chapter 3-para 36) and subsequent modification.
7. No conditions are to be added by the bidder and the conditional Bid is liable to be rejected.
8. If any bidder withdraws his Bid prior to the expiry of said validity period given at S. No. 5 or mutually extended prior or makes modifications in the rate, terms and conditions of the Bid within the said period which are not acceptable to the authority or fails to commence the work in the specified period, fails to execute the agreement the authority shall without prejudice to any, other right or remedy, be at liberty to forfeit the amount of bid security given in any form absolutely. If any bidder, who has submitted a Bid does not execute the agreement or start the work or does not complete the work and the work has to be put to rebidding he will stand debarred for six months from participating of Biding in JDA in addition to forfeiture of bid security/ Performance Security and other action under agreement
9. Any material not conforming to the specifications collected at the site have to be removed by the bidder within a period of 3 days of the instruction, issued by the Engineer -In charge in writing failing which, such material shall be removed by the Engineer-In charge at risk and cost of the bidder after the expiry of 3 days period.
10. The material collected at the site and paid provisionally shall remain under the watch and ward of the bidder till it is consumed fully on the work.

11. The rates provided in the Bidding documents are inclusive of all Taxes and royalties otherwise specified.
12. No extra lead of earth/material shall be paid over and above as specified in 'G' Schedule, Source/ borrow pit area for the earth shall have to be arranged by the Bidder at his own cost.
13. Undersigned has full right to reject any or all Bids without giving any reasons.
14. As per the Supreme Court decision "All contracts with Governments shall require registration of workers under the building and other construction workers (Regulation of Employment and Conditions of Service) Act, 1996 and extension of benefits to such workers under the etc."
15. Special Conditions of the Contract regarding the Defect Liability Period (DLP) for works costing Rs. 25.00 lacs and more shall be applicable (Annexure-I).
16. The Bidder is required to submit a copy of their enlistment as a contractor.
17. Conditions of RPWA-100 will be mandatory & acceptable to the bidder.
18. The bidder will have to install display boards at the site of work as directed by Engineer in charge.
19. All the provisions of THE RAJASTHAN TRANSPARENCY IN PUBLIC PROCUREMENT ACT, 2012 and Rules, 2013 and amendments issued from time to time by the Finance Department, GOR shall be applicable. If there are any contradictions in existing special conditions and provisions of THE RAJASTHAN TRANSPARENCY IN PUBLIC PROCUREMENT ACT, 2012 and Rules 2013 provisions of THE RAJASTHAN TRANSPARENCY IN PUBLIC PROCUREMENT ACT, 2012 and Rules 2013 shall prevail.
20. In case the rate received in the bid is below than BSR rate, additional Performance security shall be deposited by the bidder as per Rule 75 (A) of RTPP Rules.
21. The Annexure "B" (RTPP Act/Rules) is mandatory to be fulfilled & signed with seal by the bidder failing which the bid shall summarily be rejected without asking for any clarification.
22. Contractors enlisted in JDA, should be get reviewed periodically. The registered bidder who has not been reviewed within a period of 5 years 3 months, shall not be allowed to participate in the bid. Contractors enlisted in other departments shall be as per the provision of PWF&AR

Executive Engineer-(Elect.-I)
JDA, Jaipur

SPECIAL CONDITIONS OF CONTRACT REGARDING DEFECT LIABILITY PERIOD (DLP)
FOR WORKS COSTING RS. 25.00 LACS AND MORE

Table-1

S.No.	Type of work	DLP Period
1.	Bridge Work	5 Years
2.	CD Work	5 Years
3.	CC Road. PQC Work	5 Years
4.	CC tiles/Krebs/medians	5 Years
5.	Drains	3 Years
6.	Roads	
	(i) Two-layer WBM/GSB	6 months or one full rainy season whichever is later
	(ii) For Renewal/Strengthening	
	(a) BT up to 30 mm thickness	1 Years
	(b) BT above 30 mm to up to 40 mm	2 Years
	(c) BT above 40 mm to up to 90 mm	3 Years
	(d) BT above 90 mm thickness	5 Years
	(iii) New Roads	
	(a) BT up to 90 mm	3 Years
	(b) BT more than 90 mm	5 Years
7.	Compound wall	3 Years
8.	Building Work	
	(i) Work pertaining to Sanitary work electrical works, Joinery works and painting work.	2 Years
	(ii) Work pertaining to the Building structure and other electrical works	5 Years
9.	Electric work except for maintenance	3 years
10.	Sewer/Water supply including STP and water supply-related work except for maintenance works.	3 Years

1. ROAD-WORKS

1.1 The Defect Liability Period (DLP) for all Road works excluding patch repair work shall be as per the above table. Road works executed by the Contracting agency shall be maintained by them at their own cost for completion (DLP) from the actual date of completion of work as per the clause in the Contract Agreement and Special Condition of the Contract.

1.2 No extra payment shall be made to the contracting agency on account of maintenance of Road works and removal of defect during the Defect Liability Period.

1.3 The word "Road Works" means all new Road Works construction, widening, strengthening, up-gradation and renewal works

1.4 The word "Maintenance of Road Works during Defect Liability Period" means

(i) Routine maintenance of Road Works,

(ii) To remove the defect as & when appear in part and the entire structure of Road Works, in the specified time and keeping the Road Surface with good riding quality and

(iii) Damages due to improper drainage/ drains, local flooding, depressions on roads etc.

1.5 The contracting agency shall do the routine maintenance of Road works, including pavement, road side and cross drains including surface drains to the required standards and keep the entire road surface and structure in Defect free conditions during the entire period of routine maintenance, which begins at the completion of the construction work and ends after complete (DLP).

1.6 The routine maintenance shall consist of the routine maintenance operation defined in the manual for the maintenance of roads of MoRTH and shall be carried out accordingly.

1.7 The routine maintenance activities and their periodicity.

S.No.	Name of Item/Activity	Frequency of operations in one year
1	Restoration of rain cuts and dressing of berms.	Once in a year, generally after rains.
2	Making up of shoulders.	As and when required.
3	Maintenance of Bituminous surface road and/or gravel road/WBM road including filling pot holes and patch repairs etc.	As and when required.
4	Insurance of proper functioning of drains including electrical maintenance and desalting of drains. (If constructed by the same Road agency or not)	As and when required.
5	Maintenance of road signs. (If installed by the same Road agency)	Maintenance as and when required. Repainting once in every one and a half years.
6	Road Marking, Kerb Stone / Dand. (If done by the same Road agency)	Thermoplastic Paint Maintenance as and when required. Repainting once in everyone & a half year. Ordinary Paint Maintenance as and when required. Repainting thrice in every year.
7	Damages beyond the control of the agency.	Road cuts made by various agencies for utility, duly permitted by JDA / JNN will have to be repaired by the agency on the same rates of the contract agreement till DLP.

2. General

2.1 Inspection of works during the Defect Liability Period

2.1.1 The contracting agency shall undertake a joint detailed inspection along with Engineer-in-charge/A.En., at least once in three months in case of all Road works. The Engineer-in-charge can reduce this frequency in case of an emergency. The Contracting agency shall forward to the engineer in-charge the record of inspection and rectification immediately after the joint inspection. The Contracting agency shall pay particulars attention to those road sections, which are likely to be damaged during rainy season.

2.1.2 One register has to be maintained by every AEN for recording the inspection details of works in his jurisdiction under defect liability period.

2.2 Conditions regarding Performance Security

2.2.1 Security for DLP-

The contracting agency shall have to furnish Performance Security in the form of Bank Guarantee valid from the actual date of completion, which shall be assigned by the Engineer-in-charge.

2.2.2 The release of PS amount shall be as per following table 2 :-

S.No.	Released PS \ DLP Period	1 Year	2 Years	3 Years	5 Years
1.	After 1 year	100%	40%	20%	10%
2.	After 2 year		60%	20%	10%
3.	After 3 year			60%	10%
4.	After 4 year				20%
5.	After 5 year				50%

The Performance Security will be released as per the above table after a satisfactory performance certificate issued by Engineer-In-Charge:-

2.2.3 Forfeiture of Performance Security

In case the contracting agency fails to rectify the defects within the stipulated period notified to him by the Engineer-in-charge concerned under the contract agreement, the Engineer-in-charge shall serve a final notice for 5 days' time reckoned from the date of issue of notice to rectify the defects. In case the contracting agency not responding to the notice and fails in the rectification of defects the Engineer-in-charge will get the defect removed at the risk and cost of the contracting agency. Action such as encashment of Bank Guarantee and action under enlistment rules etc. shall also be taken against the contracting agency by the competent authority.

1.2.4 Force Majeure

The defect that arises due to earthquakes, cyclones, and natural calamities shall not be the responsibility of contracting agency.

2.2.5 Various conditions for managing DLP are as under:-

- (i) At the time of completion of work, final component shall be worked out for each individual item like BT/CC/tiles/ drains etc. (as per different categories in Table-I), DLP shall be operative based upon type of individual item ex:- CC-5 years, BT-1/2/3/5 years, Drain-3 years etc.
- (ii) If any work, amount is less than Rs. 25 lacs but later on due to extra/excess work, if amount of final work crosses more than Rs. 25 lacs, DLP shall be operative as per rule for each individual item.
- (iii) Similarly, if any work is more than Rs. 25 lacs but after finalization amount of work is less than Rs. 25 lacs, DLP should be operative for six months or rainy season whichever is later.
- (iv) During DLP period if contractor fails to repair any work even after the issue of 7 days written notice, the same work shall be got executed by the respective Executive Engineer at the contractor's risk and cost. This process shall be applicable throughout the DLP period. After completion of DLP period in such works contractor should be debarred and blacklisted, from JDA for three years as per RTPP rule 2012 and 2013 where his defaults twice in a single agreement or in two different works.
- (v) Quarterly Inspection as per rules shall be carried out and DLP registers shall be maintained by respective Executive Engineers to monitor the DLP repairs.
- (vi) Special and regular inspection shall also be carried out as per order no. JDA/XEN & TA to DE-I/2014-15/D-223 dated 12.03.2015 and order no. SE (PMGSY) CIRCULAR 2006/D-115 dated 04.05.2006 Point no. 3.
- (vii) In case JDA feels to take up work on any existing DLP road due to any reason, the following procedure should be adopted:
 - (a) At the time of withdrawal total liability of repairs as per DLP conditions to be carried out and the contractor shall be asked to complete the same. After completion of assessed repairs, DLP period shall be released after deduction amt. as per following table-III.

Table-3

% Recovery on withdrawal of DLP of work order	1 Year	2 Year	3 Year	4 Year	5 Year
DLP period					
1 Year	1.12	-	-	-	-
2 Year	2.55	1.43	-	-	-
3 Year	4.38	3.26	1.83	-	-
5 Year	9	7.88	6.45	4.62	2.47

Note:- Calculation is to be done on a quarterly basis.

- (b) In case the Contractor fails to carry out these repairs, same shall be carried out at his risk and cost. If the total amt. of such repairs works out to be more than the total retained amount of PS same shall be recovered from other works and as per PDR rules. The amount as per Table 3 is also to be deducted in addition to this amount.
 - (viii) Based upon the type of work, DLP conditions for works to be carried out during the DLP period with their frequency of the respective type of work shall be prepared by respective SE's after approval of these periods.
3. In case patch repairs/electrical maintenance works costing more than Rs. 25.00Lakhs, defect liability period will as per clause 37(C) of Contract Agreement.

**Executive Engineer-(Elect.-I)
JDA, Jaipur**

Specified Bank Guarantee Performa for Bid Security

Section - 6

Form of (Bank Guarantee) -En cashable at the branch of the bank in Jaipur City.

To
Secretary,
Jaipur Development Authority,
Jaipur.

Sub:-

Bank Guarantee No. _____ dated _____ for [amount of Security in figures] [in words] on behalf of _____ [Name of the Bidder] against Bid Security for the.....
.....**JDA Jaipur** WHEREAS, _____ [name of Bidder with address] (**hereinafter called "the Bidder"**) has submitted his Bid dated for the work of(here in after called " the Bid ").

KNOW ALL PEOPLE by these presents that we _____
_____ (Name of Bank) of having our registered office at _____[name of country] having our registered office at _____ (hereinafter called "the Bank") are bound unto Secretary, Jaipur Development Authority. (Hereinafter called "the Employer") in the sum of Rupees _____ [**Amount of Security in figures**] _____ (in words) only for which payment will and truly to be made to the said Employer, the Bank binds itself, its successors, and assigns by these presents. That on demand of JDA, this Bank Guarantee is cashable at the following branch in Jaipur City.

1. Name of Bank:
2. Name of the branch with branch code:
3. Address:
4. E-Mail Id:
5. Telephone No.
6. Fax No.:

SEALED with the Common Seal of the said Bank this _____ day of _____ of 20____.

THE CONDITIONS of this obligation are:

- 1) if the Bidder withdraws his Bid during the period of Bid validity specified in the Form of Bid;
- 2) if the Bidder refuses to accept the correction of errors in his bid;
- 3) If the Bidder, having been notified of the acceptance of his Bid by the Employer during the period of Bid validity;
 - (a) fails or refuses to execute the Form of Agreement in accordance with the Instructions to Bidders, or
 - (b) fails or refuses to furnish the Performance Security, in accordance with the Instructions to Bidders;

We undertake to pay to the Employer up to the above amount upon receipt of his first written demand, without the Employer having to substantiate his demand, provided that in his demand the Employer will note that the amount claimed by him is due to him owing to the occurrence of one or more of the above conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force up to and including the date 30 days after the date of expiration of the Bid Validity, as stated in the Instructions to Bidders, or any such extension thereto as may be agreed by the Bidder, a notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank no later than the above date.

The amount covered under the above Bank Guarantee shall be automatically credited in the accounts of JDA in ICICI Bank, JDA Campus, Jaipur through **ISFC code No ICICI 006754. Bank Account No. 675401700518** on the date of expiry or its validity, unless the agencies get it re-validated well before its expiry date or produce NOC from JDA in writing for its release.

Date _____ Signature of the Bank _____

Witness _____ Seal _____

[Signature, Name, and Address]

[Note: To be furnished on appropriate non-judicial stamps & should be valid for the next 7 months from the bid opening date]

Specified Bank Guarantee Performa for Performance Security

Section - 6

Form of (Bank Guarantee) -En cashable at the branch of the bank in Jaipur City.

To
Secretary, Jaipur Development Authority,
Jaipur

Sub:.....

Bank Guarantee No. _____ dated _____ for [amount of Security in figures] [in words] on behalf of _____ [Name of the Bidder] against Performance Security for the.....
.....**JDA Jaipur** WHEREAS, _____ [name of Bidder with address] **(hereinafter called "the Bidder")** has submitted his Bid dated for the work of(hereinafter called " the Bid ").

KNOW ALL PEOPLE by these presents that we _____
_____ (Name of Bank) of having our registered office at _____ [name of country] having our registered office at _____ (hereinafter called "the Bank") are bound unto Secretary, Jaipur Development Authority. (Hereinafter called "the Employer") in the sum of Rupees _____ [**Amount of Security in figures**] _____ (in words) only for which payment will and truly to be made to the said Employer, the Bank binds itself, its successors, and assigns by these presents.

That on demand of JDA, this Bank Guarantee is cashable at the following branch in Jaipur City.

1. Name of Bank:
2. Name of the branch with branch code:
3. Address:
4. E-Mail Id:
5. Telephone No.
6. Fax No.:

SEALED with the Common Seal of the said Bank this _____ day of _____ of 20____.

We undertake to pay to the Employer up to the above amount upon receipt of his first written demand within valid period of this guarantee.

This Guarantee will remain in force up to and including the date 30 days after the date of expiration of the Bid Validity, as stated in the Instructions to Bidders, or any such extension thereto as may be agreed by the Bidder, a notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank no later than the above date.

The amount covered under the above Bank Guarantee shall be automatically credited to the accounts of JDA in ICICI Bank, JDA Campus, Jaipur through **ISFC code No ICICI 006754. Bank Account No. 675401700518** on the date of expiry or its validity, unless the agencies get it re-validated well before its expiry date or produce NOC from JDA in writing for its release.

Date _____ Signature of the Bank _____

Witness _____ Seal _____

[Signature, Name and Address]
[Note: To be furnished on appropriate non-judicial stamps.]

Compliance with the Code of Integrity and No Conflict of Interest

Any person participating in a procurement process shall-

- (a) Not offer any bribe, reward or gift or any material benefit either directly or indirectly in exchange for an unfair advantage in the procurement process or to otherwise influence the procurement process;
- (b) Not misrepresent or omit that misleads or attempts to mislead so as to obtain a financial or other benefit or avoid an obligation;
- (c) Not indulge in any collusion, Bid-rigging or anti-competitive behavior to impair the transparency, fairness and progress of the procurement process;
- (d) Not misuse any information shared between the procuring entity and the bidders with an intent to gain an unfair advantage in the procurement process;
- (e) Not indulge in any coercion including impairing or harming or threatening to do the same, directly or indirectly, to any party or to its property to influence the procurement process;
- (f) Not obstruct any investigation or audit of a procurement process;
- (g) Disclose conflict of interest, if any; and
- (h) Disclose any previous transgressions with any entity in India or any other country during the last three years or any debarment by any other procuring entity.

Conflict of interest:

The Bidder participating in a bidding process must not have a Conflict of Interest.

A Conflict of interest is considered to be a situation in which a party has interests that could improperly influence that party's performance of official duties or responsibilities, contractual obligations, or compliance with applicable laws and regulations.

A bidder may be considered to be in conflict of interest with one or more parties in the bidding process if, including but not limited to:

- (a) Have controlling partners/shareholders in common; or
- (b) Receive or have received any direct or indirect subsidy from any of them; or
- (c) Have the same legal representative for purposes of the bid; or
- (d) have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another bidder, or influence the decisions of the procuring Entity regarding the bidding process; or
- (e) The bidder participates in more than one bid in a bidding process. Participation by a bidder in more than one bid will result in the disqualification of all bids in which the bidder is involved. However, this does not limit the inclusion of the same subcontractor, not otherwise participating as a bidder, in more than one bid; or
- (f) the bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the goods, works or services that are the subject of the Bid; or
- (g) Bidder or any of its affiliates has been hired (or proposed to be hired) by the procuring entity as engineer-in-charge/consultant for the contract.

Declaration by the Bidder regarding Qualifications

Declaration by the Bidder

In relation to my/our Bid submitted tofor procurement ofin response to their Notice inviting Bids No.....Dated.....I/wehereby declare under Section 7 of Rajasthan Transparency in Public Procurement Act, 2012 that:

1. I/we possess the necessary professional, technical, financial and managerial resources and competence required by the Bidding Document issued by the Procuring Entry;
2. I/we have fulfilled my/our obligation to pay such of the taxes payable to the union and the state government or any local authority as specified in the Bidding Document.
3. I/we are not insolvent, in receivership, bankrupt or being wound up, not have my/our affairs administered by a court or a judicial officer, not have my/our business activities suspended and not the subject of legal proceedings for any of the foregoing reasons;
4. I/we do not have, and my directors and officers not have, been convicted of any criminal offense related to my/our professional conduct or the making of false statements or misrepresentations as to my/our qualifications to enter into a procurement contract within a period of three years preceding the commencement of this procurement process, or not have been otherwise disqualified pursuant to debarment proceedings;
5. I/we do not have a conflict of interest as specified in the Act, Rules and the Bidding Document, which materially affects fair competition;

Date:

Signature of the bidder

Place:

Name:

Designation:

Address:

Note:- Annexure "B" is mandatory to be fulfilled & signed with seal by the bidder failing which the bid shall summarily be rejected without asking any clarification.

Grievance Redressal during Procurement Process

The designation and address of the First Appellate Authority:

For works costing up to Rs. 300.00Lakhs - Jaipur Development Commissioner, JDA, Jaipur.

For works costing above Rs. 300.00Lakhs - Executive Committee, JDA, Jaipur.

The designation and address of the Second Appellate Authority:

For works costing up to Rs. 300.00Lakhs - Executive Committee, JDA, Jaipur.

For works costing above Rs. 300.00Lakhs - Principle Secretary/ ACS, Urban Development & Housing Department, GOR, Jaipur.

(1) Filing an appeal: -

if any bidder or prospective bidder is aggrieved that any decision, action or omission of the procuring entity is in contravention to the provisions of the Act or the rules or the guidelines issued there under, he may file an appeal to First Appellate authority, as specified in the Bidding document within a period of ten days from the date of such decision or action, omission, as the case may be, clearly giving the specific ground or grounds on which, he feels aggrieved:

Provided that after the declaration of a bidder as successful the appeal may be filed only by a bidder who has participated in procurement proceedings:

Provided further that in case a procuring entity evaluates the technical bids before the opening of the financial bids, an appeal related to the matter of financial bids may be filed only by a bidder whose technical bid is found to be acceptable.

(2) The officer to whom an appeal is filed under Para (1) shall deal with the appeal as expeditiously as possible and shall Endeavour to dispose it of within thirty days from the date of the appeal.

(3) If the officer designated under Para (1) fails to dispose of the appeal filed within the period specified in Para (2), or if the bidder or prospective bidder or the procuring entity is aggrieved by the order passed by the first appellate authority, the bidder or prospective bidder or the procuring entity, as the case may be, may file a second appeal to the second appellate authority specified in the bidding document in this behalf within fifteen days from the expiry of the period specified in Para (2) or of the date of receipt of the order passed by the first appellate authority, as the case may be.

(4) Appeals not to lie in certain cases: -

No appeal shall lie against any decision of the procuring entity relating to the following matters, namely: -

- (a) Determination of the need of procurement
- (b) Provisions limiting the participation of bidders in the bid process
- (c) The decision of whether or not to enter into negotiations
- (d) Cancellation of a procurement process
- (e) Applicability of the provisions of confidentiality

(5) Form of Appeals: -

- (a) An appeal under Para (1) or (3) above shall be in the annexed form along with as many copies as there are respondents in the appeal.
- (b) Every appeal shall be accompanied by an order appealed against, if any, Affidavit verifying the facts stated in the appeal and proof of payment of fee,
- (c) Every appeal may be presented to the first appellate authority or second
The appellate authority, as the case may be, in person or through registered post or authorized representative.

(6) Fee for filing Appeal: -

- (a) Fee for the first appeal shall be rupees two thousand five hundred and for the second appeal shall be rupees ten thousand, which shall be non-refundable.
- (b) The fee shall be paid in the form of a bank demand draft or banker's cheque of a scheduled bank in India payable in the name of the appellate authority concerned.

(7) Procedure for disposal of Appeal: -

- (a) The first appellate authority or second appellate authority as the case may be, upon the filing of the appeal, shall issue notice accompanied by a copy of the appeal, affidavit and documents, if any, to the respondents and fix a date of hearing
- (b) On the date fixed for hearing, the first appellate authority of the second appellate authority, as the case may be shall-
 - (i) Hear all the parties appeal presenting before him; and
 - (ii) Peruse or inspect documents, relevant records or copies thereof relating to the matter.
- (c) After hearing the parties, perusal or inspection of documents and relevant records or copies thereof relating to the matter, the appellate authority concerned shall pass an order in writing and provide a copy of the order to the parties to appeal free of cost.
- (d) The order passed under sub-clause (c) above shall also be placed on the state public procurement portal.

Additional Conditions of Contract

1. Correction of arithmetical errors

Provided that a financial bid is substantially responsive, the procuring entity will correct arithmetical errors during the evaluation of financial Bids on the following basis:

- (i) if there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected unless in the opinion of the procuring entity, there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price shall be corrected;
- (ii) if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
- (iii) if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (i) and (ii) above.

If the Bidder that submitted the lowest evaluated bid does not accept the correction of errors, its bid shall be disqualified and its bid security shall be forfeited or its bid securing declaration shall be executed.

2. Procuring Entity's Right to Vary quantities.

- (i) At the time of award of the contract, the quantity of goods, works or services originally specified in the bidding documents may be increased or decreased, by a specified percentage, but such increase or decrease shall not exceed fifty percent, of the quantity specified in the bidding documents. It shall be without any change in the unit prices or other terms and conditions of the bid and the conditions of the contract.
- (ii) If the Procuring entity does not procure any subject matter of procurement or procures less than the quantity specified in the bidding document due to change circumstances, the bidder shall not be entitled to any claim or compensation except otherwise provided in the conditions of the contract.

3. Dividing quantities among more than one bidder at the time of award (In case of procurement of Goods):-

As a general rule, all the quantities of the subject matter of procurement shall be procured from the Bidder, whose Bid is accepted. However, when it is considered that the quantity of the subject matter of procurement to be procured is very large and it may not be in the capacity of the Bidder, whose Bid is accepted, to deliver the entire quantity or when it is considered that the subject matter of procurement to be procured is of critical and vital nature, then in such cases, the quantity may be divided between the Bidder, whose Bid is accepted and the second lowest Bidder or even more Bidder in that order, in a fair, transparent and equitable manner at the rates of the Bidder, whose Bid is accepted.

Process for Tender Participation & Depositing Payment on 'Online Tender Participation' Portal of JDA & Bid Submission on 'e-Procurement Portal' of Government of Rajasthan: -

A*Process for Tender Participation & Depositing Payment on 'Online Tender Participation' Portal of JDA

1-Participate in tender

- Bidder can access 'Online Tender Participation' Portal of JDA at <https://jda.urban.rajasthan.gov.in/jda> or by Single-Sign-On at <http://service.jaipurjda.org>.
- Create user Login with a valid mobile number to register yourself for various Online Services of JDA.
- Select 'Proceed as Citizen' and then 'Proceed for Subscription' for 'Tender Online Payment'. The prevailing plan for getting registered for tendering process of JDA is Rs. 500.00 with a validity period of 3 Years (renewable).
- After successful payment, re-login and upload required documents for KYC (Know Your Client) compliance as per the type of entity viz. Individuals/ Company/ Partnership Firms/ Trusts & foundations. Besides, Bank Passbook / Cancelled Cheque consisting of Bank Account, IFSC Code is mandatory to be uploaded, to refund the bid security of unsuccessful bidder.
- After receiving the payment successfully and approving KYC documents the bidder will be authenticated by JDA for taking part in Tender.

2-Deposit Tender Fee, RISL processing fee and Bid Security (EMD)

- Option-1:** Payment Gateway (Aggregator)
The facility to make payment through Debit Card, Credit Card, Net banking etc., will be available. User can use this facility from anywhere any time till the closing date & time of bid participation.
- Option-2:** Electronic Fund Transfer (EFT: NEFT/RTGS)
If the bidder selects payment mode as EFT (NEFT/RTGS), "Paying Slip for EFT (NEFT/RTGS)" will be generated by the system for the complete amount. The payment can be made from any Bank any Branch using this Paying Slip through NEFT/RTGS (Claim against payment made through EFT in any other JDA bank account will not be acceptable and bidder stands disqualified from participation in the bid applied for). After successful transaction through NEFT/RTGS, as per the standard procedures it may take 4 to 24 hours in process of confirmation of EFT through Auto-Process depending on the time of EFT done. Therefore, option to make payment through EFT (NEFT/RTGS) will be available till 48 hours prior to closing date of bid participation.

3-Deposit Bid Security (EMD)

The Bid Security (EMD) can be submitted through Bank Guarantee (BG). Bidder may opt Bank Guarantee (BG) against Bid Security (EMD), for which bidder requires to prepare BG before applying in the tender. The detail of BG requires to be fed on 'Online Tender Participation' Portal of JDA before paying balance amount (Tender Fee + RISL Processing Fee). This balance amount will be paid through Payment Gateway only, option to make balance payment through EFT (RTGS/NEFT) will not be available.

4-Obtain Bid Participation Receipt

After confirming payment, the bidder will get Bid Participation Receipt based on which user will get the payment details along with other details for bidding on e-Procurement portal of GOR.

- In case of BG as the remaining payment will be done through Payment Gateway, on successful transaction the 'Bid Participation Receipt' will be generated on real time basis.
- In case complete payment is done through Payment Gateway, on successful transaction the 'Bid Participation Receipt' will be generated on real time basis.
- In case complete payment is done through EFT (NEFT/RTGS), on confirmation of payment from ICICI Bank (Auto Process) 'Bid Participation Receipt' will be available on Login of Bidder on JDA portal.

B-**Bid Submission on 'e-Procurement Portal' of Government of Rajasthan

- Online e-Bid can be submitted after registration at e-Procurement Portal of Government of Rajasthan www.eproc.rajasthan.gov.in
- It is mandatory to upload Bid Participation Receipt with the bid submission.
- Details of online payment available on Tender Participation Portal of JDA have to be filled in 'offline payment' section of e-Procurement portal.

Note

- 1- Bidder (authorized signatory) shall submit their offer on-line in electronic formats both for technical and financial proposal.
- 2- In case, any of the bidders fails to pay the Tender Fee, BSD, and RISL Processing Fee, online (subject to confirmation), its Bid shall not be accepted.
- 3- To participate in online bidding process, Bidders must procure a Digital Signature Certificate (Type III) as per Information Technology Act-2000 using which they can digitally sign their electronic bids. Bidders can procure the same from any CCA approved certifying agency, i.e., TCS, Safecrypt, nCode etc. Bidders who already have a valid Digital Signature Certificate (DSC) need not procure a new DSC. Also, bidders must register on <http://eproc.rajasthan.gov.in> (bidders already registered on <http://eproc.rajasthan.gov.in> before 30-09-2011 must register again).
- 4- JDA will not be responsible for delay in online submission due to any reason. For this, bidders are requested to upload the complete bid well advance in time so as to avoid 11th hour issues like slow speed; choking of web site due to heavy load or any other unforeseen problems.
- 5- Bidders are also advised to refer "Bidders Manual Kit" available at eProc website for further details about the e-Tendering process.
- 6- Training for the bidders on the usage of e-Tendering System (eProcurement) is also being arranged by DoIT&C, GoR on a regular basis. Bidders interested in training may contact e-Procurement Cell, DoIT&C for booking the training slot.

Contact No: 0141-4022688 (Help desk 10 am to 6 pm on all working days) e-mail: eproc@rajasthan.gov.in

Address: e-Procurement Cell, JDA, Yojana Bhawan, Tilak Marg, C-Scheme, Jaipur

- 7- The procuring entity reserves the complete right to cancel the bid process and reject any or all of the Bids.
- 8- No contractual obligation whatsoever shall arise from the bidding document/ bidding process unless and until a formal contract is signed and executed between the procuring entity and the successful bidder.
- 9- Procurement entity disclaims any factual/ or other errors in the bidding document (the onus is purely on the individual bidders to verify such information) and the information provided therein are intended only to help the bidders to prepare a logical bid-proposal.
- 10- The provisions of RTPPA Act 2012 and Rules thereto shall be applicable for this procurement. Furthermore, in case of any inconsistency in any of the provisions of this bidding document with the RTPPA Act 2012 and Rules thereto, the later shall prevail.

Jaipur Development Authority, Jaipur.	
Bid Participation Receipt	
	Date & Time:-
Bid Detail	
Bid ID:	Procurement Entity:-
Bid Title:	
Bid Value:	Bid Opening Place:
Bidder Detail	
Name of Entity:	Mobile No.:
Registration Type:	Instrument Amount:
Payment Mode:	Payment Channel:
Instrument No.:	Instrument Date:

Dates Detail		
Sr. No.	Event Name	Event Date
1	Publishing Date	
2	Bid Opening Date	

Specific Instrument for eProc Rajasthan			
Instrument Type			
Instrument Number	Head Name	Amount	Date
	Tender Fee		
	RISL Processing Fee		
	Bid Security Deposit		
Issuer Detail: Jaipur Development Authority		Challan Number:	

More details about Registration Process, Terms and Conditions and FAQ along with contact detail is available on JDA website www.jda.urban.rajasthan.gov.in.

JAIPUR DEVELOPMENT AUTHORITY, JAIPUR

SPECIAL CONDITION OF THE CONTRACT FOR POST QUALIFICATION OF CONTRACTORS

Name of work: - Conversion of existing HPSV & Normal LED lighting System into NB IoT based LED Smart lighting System, which are installed by JDA at various locations beyond the Jaipur Nagar Nigam Jurisdiction /energy bills paid by JDA.

Special conditions of contract of POST QUALIFICATION as detailed here under, shall be applicable in addition to all other terms and condition already prescribed under standard agreement forms/rules and regulations to contract:

1. Procedure:

Procedure for **POST QUALIFICATION** would be as follow:

- (a) Two-envelope (docket) system would be adopted, for POST QUALIFICATION, Docket-1 being for Technical Bid and Docket-2 being for Financial Bid.

Docket-1:- There will be three separate folders- **Folder-1** is for proof of deposition of Bid Security, cost of bidding document and bid processing fee along with copy of GST registration, Annexure -B" (RTPP Act/Rules) is mandatory to be fulfilled & signed with seal and copy of enlistment as contractor/ bidder in required category or ICT system integrator /Smart City integrator having valid appropriate class electrical license. **Folder-II** is for bid document and **folder-III** is for technical bid.

Docket-2:- There will two separate **folders-1** is for financial bid and **folders-2** is for bill of quantities.

- (b) The technical bid will be opened only of whose bidders those proper Bid Security, copy of GST registration, proof for deposition of bidding document fee, RISL processing fee, copy of enlistment of contractor in required category and signed Annexure -B" (RTPP Act/Rules) is mandatory to be fulfilled & signed with seal are found to be in order. The bid Security will be accepted only in from of online deposition or in form of Bank Guarantee.
- (c) The Technical Bid envelope would be opened on the dated **26.07.2023 at 11.00 AM** in the chamber of Executive Engineer Room No. JB FF-114, Court Building, Ram Kishore Vyas Bhawan, Indira Circle, Jawahar Lal Nehru Marg, Jaipur- 302004 (Rajasthan)
- (d) The Financial Bid envelope would be opened only of those bidders who fulfill all the POST QUALIFICATION CRITERIA.

2. Criteria:

Criteria for **POST QUALIFICATION** would be as follows:-

S. No.	Category	Criteria	Documents Required
1	General Requirement	Bidder should be an established ICT System Integrator and should have been engaged in at least One Smart City project in India invited by any Government agency only which include Supply, Installation, testing, Commissioning with Operations & Maintenance of smart solutions in the	Copies of relevant work order and contract agreement showing order value supported by below certificates:

		<p>last 7 financial years ending 31.03.2022. The value of contract must be above or equivalent to 11.66 crore.</p> <p>Area of operations must include any 2 out of 6 smart elements in any one smart city:</p> <ol style="list-style-type: none"> 1. Smart Lighting system. (Mandatory) 2. Wi-Fi. 3. CCTV. 4. Environmental sensors. 5. Smart Parking System. 6. ICOC/NOC/data Centre <p style="text-align: center;">OR</p> <p>Bidder should have completed single project of smart lighting solution (individual light control) implementation of 50% of estimated tender value in last seven financial years for any government agency in India.</p>	<p>Work Completion Certificates issued by Govt. of India, State Govt., Union Territory, Govt. Undertakings, Autonomous bodies shall only be considered.</p> <p>Work Order + Phase Completion Certificate issued by Govt. of India, State Govt., Union Territory, Govt. Undertakings, Autonomous bodies shall only be considered</p> <p style="text-align: center;">OR</p> <p>Attached work order, G-Schedule/BOQ and work completion certificate</p>
2	Legal Entity	<p>The bidder should be a Proprietorship firm duly registered either under the Rajasthan Shops & Commercial Establishments Act, 1958 or any other Act of State/ Union, as applicable for dealing in the subject matter of procurement</p> <p style="text-align: center;">OR</p> <p>A company registered under Indian Companies Act, 1956 OR A partnership firm registered under Indian Partnership Act, 1932.</p> <p>Consortium/Joint Venture is not allowed.</p>	<ol style="list-style-type: none"> 1. Copy of valid Registration Certificates. 2. Copy of Certificates of incorporation.
3	Turn Over	<p>The bidder should have achieved an annual financial turnover of at least 60.00% of the Estimated Cost of the work (bid cost) in any one of last seven financial years (including current year, if opted by the bidder)</p>	<p>The bidder should enclose certificate of Turn over from Chartered Accountant for last seven financial year & audited balance sheet of the year which is considered by the bidder.</p>
4	Net Worth	<p>The net worth of the bidder should be positive, as on last financial year 31st March 2022</p>	<p>CA Certificate with CA's Registration Number/ Seal.</p>

5	Tax Registration	The Bidder should possess the following documents: a. GST Registration Certificate b. PAN Card	The Bidder is required to furnish the Copies of the GST Registration Certificate and PAN card.
6	Appropriate class	E-I class contractors registered in the appropriate class with CPWD, Postal, Telegram, Railway, MES, Other State Government/Central Government undertakings/organizations. (The bidder must capable to bid in the bid as per their enlistment) OR ICT system integrator /Smart City integrator having valid appropriate class electrical license.	Required Certificate of Appropriate class
7	RTTP Act/ Rules	Declaration by the Bidder regarding Qualifications	Self-Declaration by the bidder as per Annexure-B''
8	Self-Declaration	Details Regarding Evaluation Criteria	Self-Declaration by the bidder as per Annexure-A'

Executive Engineer (Elect.-I)
Jda, Jaipur

Project Profile & Background Information

1. The Jaipur Development Authority (JDA) was established in the year 1982. JDA was created by the of manoeuvre the growing requirements of a large city wake of the increasing population and to help give Jaipur a planned look compatible and comparable to any metropolitan city of repute. For this motive JDA was given powers and a green signal to speed up the development and progressive growth of the entire city.
2. The initiative of the e-governance projects the major work area is being rendered through IT based solutions. Many activities are now performed through IT support solutions.
3. JDA is committed to working for the benefit of the citizens of Jaipur with planned implementation of development schemes and is consistently striving to take Jaipur to higher levels of progress. To meet its objective, JDA intends to provide, safety and security solutions, cost effective and easy access to information, through multiple device stores idents of Jaipur.

JDA is maintaining more than 5000 streetlights across Jaipur. Among these 5000 streetlights mostly are HPSV lights which consumes more energies and availability of spares is also a challenge and due to this many times complaints remains pending for a long time. As GoI and state government have taken initiative to convert these non-energy efficient lights into energy efficient light with smart solutions. Accordingly, JDA intend to replace them by smart led luminaire with smart solutions. This smart solution shall bring cost saving to JDA by feature of dimming of lights as per need. This solution shall also provide instant report to JDA about fault in particular streetlight and shall provide different kind of reports for intelligence and recurring energy bill saving.

Broad Scope of Work

1.0 The broad scope of work will include:

- a. Survey of existing HPSV/LED streetlight/flood lights as mentioned in annexure 11.
- b. Submission of survey report and execution planning for approval by JDA.
- c. Supply of material as per approved quantity.
- d. De-installation of existing luminaire and installation of new luminaire with ILC.
- e. Software and mobile app installation and commissioning.
- f. Mobile app launching on Android & IOS platform.
- g. Testing and commissioning of complete smart lighting systems.
- h. Submit go live request.
- i. O&M activity with ward and watch of the complete lighting system for 3 years.

2.0 Bidder shall be responsible to buy back existing traditional sodium vapor lamp street lights/flood lights and normal led street lights.

3.0 FMS for smooth functioning of the new infrastructure shall be provided by selected bidder and details of same is given under section **Service level Agreement** in this document.

4.0 Project Deliverables

The Bidder is required to supply, installation and commissioning of smart LED luminaire with smart solution. The bidder shall be responsible for the O&M of complete solution with ward and watch for 3 years from the date of go live.

- The bidder is advised to visit the sites of locations as well as Network Operations Centre (NOC) established at JDA HQ building at Jaipur to make an independent assessment of the quantum of the work involved.
- The JDA shall facilitate the bidder for any per missions/issues if required/ resolved with the various departments of the State / Central Government.
- Successful bidder shall take insurance for the complete setup for any theft, fire, damage etc. for the complete contract period.
- Bidder shall be responsible for pay the charges of hosting of application of smart lighting solution and all kind charges of Play store and Apple (App store) for the Mobile App.
- Bidder shall be responsible for generating all type reports as needed to JDA from Software and JDA shall not pay any other additional charges for such work.
- Bidder shall be responsible for carry out other misc. work as required to complete the project and JDA shall pay the charges if request of such charges found satisfactory.
- Bidder shall not be responsible for accidental damage of Pole but shall be responsible for luminaire and ILC breakage/theft etc. In case of theft/ breakage, the bidder have to replaced luminaire and ILC within 48 hours.
- Bidder shall not penalized for data is not coming on Mobile app/Software during Internet services closed by Government order in Jaipur.

SCHEDULE-I

FINANCIAL RESOURCES AND CAPABILITY (Reference clause 3(a))

1. Name of Bidder:-

2. Total financial turnover achieved by the bidder in the last Seven financial years;

S.No.	Year	Turnover
(i)		
(ii)		
(iii)		
(iv)		
(v)		
(vi)		
(vii)		

Note: Balance Sheets and Profit & Loss Accounts is to be enclosed by the bidder which is considered by him as per criteria 2(a).

3. Total financial Turnover projected in the current financial year.
4. Has the bidder ever been debarred from tendering for Central Government/State Government/any Government undertaking?
Yes/No, If yes give details.
5. Has bidder ever been declared insolvent?
Yes/No, If yes give details.
6. Name(s) and Address of Branch/(s) for bidder's Bankers.

I/We hereby certify that the above information is correct to the best of my/our knowledge and belief.

Date:

**Signature & Seal
of the Bidders**

SELF-DECLARATION

I/We.....Proprietor/Partner/Authorized
signatory of M/s.....under take the oath that the
information furnished by me/us in Details Regarding Evaluation Criteria 1 to 9 of the assessment Bid
for.....
.....is correct to the best of my/our knowledge. If any information is found to be
incorrect JDA has right to reject the Bid and to take action against me/us as per rules.

.....

Proprietor/Partner/ Authorized signatory

M/s.....

.....

**Note:- This self-declaration is mandatory to be signed by the bidder failing which the bid shall
summarily be rejected without asking any clarification.**

Declaration by the Bidder regarding Qualifications

Declaration by the Bidder

In relation to my/our Bid submitted tofor procurement ofin response to their Notice inviting Bids No.....Dated.....I/wehereby declare under Section 7 of Rajasthan Transparency in Public Procurement Act, 2012 that:

6. I/we possess the necessary professional, technical, financial and managerial resources and competence required by the Bidding Document issued by the Procuring Entry;
7. I/we have fulfilled my/our obligation to pay such of the taxes payable to the union and the state government or any local authority as specified in the Bidding Document.
8. I/we are not insolvent, in receivership, bankrupt or being wound up, not have my/our affairs administered by a court or a judicial officer, not have my/our business activities suspended and not the subject of legal proceedings for any of the foregoing reasons;
9. I/we do not have, and my directors and officers not have, been convicted of any criminal offense related to my/our professional conduct or the making of false statements or misrepresentations as to my/our qualifications to enter into a procurement contract within a period of three years preceding the commencement of this procurement process, or not have been otherwise disqualified pursuant to debarment proceedings;
10. I/we do not have a conflict of interest as specified in the Act, Rules and the Bidding Document, which materially affects fair competition;

Date:

Signature of the bidder

Place:

Name:

Designation:

Address:

Note:- Annexure "B" is mandatory to be fulfilled & signed with seal by the bidder failing which the bid shall summarily be rejected without asking any clarification.

Details Regarding Evaluation Criteria

Name of work :-

S. No.	Item	Minimum Requirement (As per Bid)	Remark			
				Year	Qty.	Page No.
1	Copy of GST Reg. Certificate					
2	1. Proof of Bid Security deposition 2. Proof of bidding document cost deposition 3. Proof of RISL fees deposition.					
3	E-I class contractors registered in the appropriate class with CPWD, Postal, Telegram, Railway, MES, Other State Government/Central Government undertakings/organizations. (The bidder must capable to bid in the bid as per their enlistment) OR ICT system integrator /Smart City integrator having valid appropriate class electrical license.					
4	Bidder should be an established ICT System Integrator and should have been engaged in at least One Smart City project in India invited by any Government agency only which include Supply, Installation, testing, Commissioning with Operations & Maintenance of smart solutions in the last 7 financial years ending 31.03.2022. The value of contract must be above or equivalent to 11.66 crore. Area of operations must include any 2 out of 6 smart elements in any one smart city: 1. Smart Lighting system. (Mandatory) 2. Wi-Fi. 3. CCTV. 4. Environmental sensors. 5. Smart Parking System. 6. ICOC/NOC/data Centre OR Bidder should have completed single project of smart lighting solution (individual light control) implementation of 50% of estimated tender value in last seven financial years for any government agency in India.					
5	Legal Entity :- The bidder should be a Proprietorship firm duly registered either under the Rajasthan Shops & Commercial Establishments Act, 1958 or any other Act of State/ Union, as applicable for dealing in the subject matter of procurement OR A company registered under Indian Companies Act, 1956 OR A partnership firm registered under Indian Partnership Act, 1932. Consortium/Joint Venture is not allowed.					

6	Turn Over :- The bidder should have achieved an annual financial turnover of at least 60.00% of the Estimated Cost of the work (bid cost) in any one of last seven financial years (including current year, if opted by the bidder) Schedule-I				
7	Net Worth :- The net worth of the bidder should be positive, as on last financial year 31st March 2022				
8	Self-Declaration Annexure-A'				
9	Signed Annexure -B" (RTPP Act/Rules)				

Note:- This sheet must be prepared and submitted by the bidders.

**Signature & Seal
of the Bidders**

Name of Work: Conversion of existing HPSV & Normal LED lighting System into NB IoT based LED Smart lighting System, which are installed by JDA at various locations beyond the Jaipur Nagar Nigam Jurisdiction/ energy bills paid by JDA

G-Schedule

S. No.	Particular	Unit	Qty.	Rate	Amount
	Part-A				
1.0	Replacement of existing HPSV/LED Street lights by SITC of LED street light fixture >140 lm/w with dimmable DALI driver (0-10V) and 7-pin receptacle NEMA socket. Complete in all respect as per details below				
1.1	SITC of 110 Watts LED Luminaire of >140lm/w with dimmable DALI driver (0-10V), IP66 with 7 pin recetpable NEMA socket & SITC of Nema 7-pin IoT based Intelligent Lighting Controller with 0-10V DC dimming output with all inclusive SIM Card and connectivity charges for 3 years from Go live & SITC of Over-Voltage Protection device (power cut-off at >270V and <170V) to be installed either inside the street light fixture or inside the junction box at the bottom of the lamp post. Complete in all respect as per annexure A	Each	3,881.00	18,200.00	70,634,200.00
1.2	SITC of 70 Watts LED Luminaire of >140 lm/w with dimmable DALI driver (0-10V), IP66 with 7 pin recetpable NEMA socket & SITC of Nema 7-pin IoT based Intelligent Lighting Controller with 0-10V DC dimming output with all inclusive SIM Card and connectivity charges for 3 years from Go live & SITC of Over-Voltage Protection device (power cut-off at >270V and <170V) to be installed either inside the street light fixture or inside the junction box at the bottom of the lamp post with. Complete in all respect as Per Annexure B	Each	1,119.00	17,200.00	19,246,800.00
2.0	Design, Development, Customization and Hosting on Cloud, Street Light Smart Management Software, Secure Data base, Remote controlling, Monitoring, Power metering features and all kind reports Generation & Development, Customization and Hosting of Mobile Apps for Street Light Management for field activity, Training on Software and Mobile app, all kind recurring charges & All upgrade, O&M, bug fixing for three years for upto 5000 ILCs. Complete in all respect as per Annexure-C	Each	1.00	16,500,000.00	16,500,000.00
3.0	Comprehensive Operation & Maintenance of the complete lighting system (new installation) for 3 years from the date of go live, include all kind incidental expenses, insurance cost and manpower cost & Hoist/lifter/crane charges including ward and watch. Complete in all respect as per tender document	Each	5,000.00	2,400.00	12,000,000.00
	Part-A				118,381,000.00

	Part- A :- *The Bidder has to quote percentage below/ above rates on the give rates. We quote our rate % below / above on the G-Schedule Part-A.				
	Total (Part-A)				
	Part-B				
1.0	The Buy back of the existing lighting fixtures, The bidder has to replace the existing lighting fixture for installation of new energy efficient LED Smart lighting System. These replaced/removed lighting fixture is to buy back by the bidder.	Each	5,000.00	Rates to be quoted by the bidder	-
	Total (Part-B)				-
	Net Price (A-B)				-

110 Watt Luminaire:

Sr. No.	Parameters	Technical and Functional Requirements // LED Street Light Fixture
1	Integrated product	LED streetlight fixtures 110W with Nema 7-pin receptacle and dimmable driver and shorting cap - suitable for existing bracket / pole.
2	IP66	Fixture shall have two separate compartments for the LED modules and the LED Driver, and both compartments should be hermitically sealed to achieve IP66 (or better) ingress protection.
3	Connector	Fixture shall have integrated Nema 7-pin receptacle: ANSI c136.41 compliant - for ease of mounting external Nema intelligent streetlight controller
4	Over-voltage protection	There should be sufficient space inside the fixture to integrate over-voltage protection device (OVP). OVP to be connected between the AC input wires (from the power source) and the Nema receptacle.
5	Material	Fixture shall be made of powder-coated single piece pressure die cast aluminium LM6/ ADC12 material with heat dissipation fins on housing.
6	Lens	Secondary lens on each LED module must be SMD type.
7	UV protection/ Impact rating	Fixture shall use UV stabilized toughened glass/ polycarbonate cover (UV stabilization report submitted for the cover) to withstand IK07 impact rating.
8	Efficacy	The system level luminaire efficacy shall be ≥ 140 lumen/ watt with high power LEDs to be used.
9	DALI based Dimming	LED Driver shall be capable of DALI dimming. Dimming shall be compliant to relevant IEC 62386 standard and must offer Flicker free lighting.

10	Electrical parameters	<p>Input Voltage: 120 to 270 VAC (or better) with high-voltage cut-off at ≥ 270 VAC with auto-reset.</p> <p>Driver should have phase-to-phase protection of 440 V for 4 hours</p> <p>Driver in-built surge protection: ≥ 4 kV</p> <p>Luminaire in-built surge protection: ≥ 10 kV</p> <p>Input Frequency: 50 Hz $\pm 3\%$</p> <p>Power Factor: > 0.95</p> <p>Driver Efficiency: $> 85\%$,</p> <p>THD(I): $< 10\%$</p> <p>Humidity: 10% to 90% RH</p> <p>Working temperature: -5°C to 60°C</p> <p>Driver current: $< 1000\text{mA}$</p> <p>Color Rendering Index: > 70</p> <p>CCT: 5700K +/- 355K</p>
11	Product life-expectancy	<p>Life-expectancy of the overall fixture shall be greater than 50,000 burning hours, tested at maximum current and 105 Deg C with minimum 70% lumen maintained.</p> <p>Street light fixture (including LED Driver and other components) must carry at least 3 years standard hardware warranty post-project handover - for Jaipur climatic conditions. OEM must guarantee product continuity, product spare-parts availability and end-of-life support for at least 3 additional years.</p>
12	Compliance	Street light fixture shall be IS 10322 (Part 5/ Section 3) Compliant and BIS certified.
13	Logo marking	Manufacturer's name / logo shall be engraved/ embossed on die-cast housing to allow traceability / authenticity
14	Documentation / Submission	A copy of LM79, LM80 reports, UV stabilization report, IP66, IK07 certificates, product datasheets, warranty commitment must be submitted together with the compliance sheet and proposal.
15	Credibility	Manufacturer (fixture OEM) must have their own in-house NABL lab setup for all testing facilities for LED fixtures.

16	Quality approval	All submissions should be approved by engineer-in-charge. One samples shall be submitted before awarding work order.
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Over Voltage Protector:

S. No.	Parameters	Technical and Functional Requirements // Over-Voltage Protection Device
1	Rated voltage	230V AC at 50/ 60 Hz
2	Operational	Operating voltage: 175 - 260V AC (or wider)
3	Cut-off	Over-voltage action cut-off value $>270 \pm 5VAC$
4	Cut-off	Under-voltage action cut-off value $<170 \pm 5VAC$
5	Delay	Cut-off delay time: between 1 and 6 seconds (or shorter)
6	Max. current	Max. current capacity: 40A (or higher)
7	Recovery	Re-start delay post cut-off: 10 seconds

IOT Based Individual light Controller:

S. No.	Parameters	Technical and Functional Requirements // IoT Intelligent Lighting Controller (ILC)
1	Integrated product	Outdoor individual intelligent lighting controller (ILC) must be an integrated product with in-built wireless communication, GPS, lighting control, power-metering, tilt sensor, photocell (optional), antennas and input for external motion sensor
2	Standard Interface	ILC must be equipped with a standardized 7-pin Nema interface (compliant with ANSI c136.41 standard) for ease of mounting with any NEMA compliant street light luminaire.
3	Gateway Free Installation	ILC must connect directly to the internet via local cellular telecom (mobile cell phone) tower, without dependency on any Gateways. Gateway free installation is also to avoid points-of-failures as experienced earlier.
4	Wireless communication	<p>(a.) ILC shall support latest IoT cellular standard such as NB-IoT, LTE CAT M1 and / or LTE CAT 1. It should have a mandatory EGPRS/ EDGE/ GSM fallback in case of network unavailability across Jaipur remote locations, including the neighbouring villages, at an affordable price. Other communication methods (such as Zigbee, LoRa) are not permitted for this application.</p> <p>(b.) OEM supplier should provide total cost of ownership including sim card as well as required data for a period of 3 years post project hand-over. Prices should be an all-inclusive, with no additional monthly data, service and/ or support costs. Hidden costs will not be accepted.</p>
5	Geo-location	<p>ILC must have in-built GNSS module (GPS) to offer automatic geo-positioning, auto-commissioning and accurate astronomical timings for sunrise/ sunset lamp switching.</p> <p>Geo-positioning must also support notification/ alarm in case the streetlight location moves by more than 500m from</p>

		it's original location (e.g. pole theft situation)
6	Tilt Sensor	OLC must have in-built pole tilt sensor to detect potential fixture or pole damage due to weather deterioration or road accident (pole knock-down situation)
7	Photocell (optional)	ILC must have in-built ambient lighting sensor (photocell) for local lux based switching.
8	Power Metering	ILC must have in-built power-metering circuit to support high accuracy metering, preferably 95% or better
9	Reporting	Each ILC should be able to report all relevant data of the street lighting fixture at least every 15 minutes interval - if requested.
10	Electrical parameters	<p>(a.) Operating voltage: 95 - 270V AC, should be able to operate together with the over-voltage protection device</p> <p>(b.) Electrical protection: Class II</p> <p>(c.) Surge protection: 6kV, 3kA (L-N)</p> <p>(d.) In-built RTC with on-board power backup for at least 3 days</p> <p>(e.) Operating condition: -10° C to +70° C ambient temperature, < 95% Rh non-condensing</p> <p>(f.) Must be certified to work at high temperature temporarily with direct sunlight Tc +85° C</p> <p>(g.) Output power: >400W</p>
11	Controller Housing	<p>(a.) IP66 or higher ingress protection rating, when combined with an equivalent IP66 NEMA streetlight luminaire</p> <p>(b.) Fire resistant (UL94-V0) housing</p> <p>(c.) ILC outer diameter must not exceed the standard 85 mm to meet the elegance requirements of Jaipur</p> <p>(d.) UV exposure and water immersion protection: F1</p>

12	Dimming and Switching Options	<p>ILC must offer following individual lamp switching and dimming options:</p> <p>(a.) Photocell / photo sensor / ambient light sensor (optional),</p> <p>(b.) Astro Clock (astronomical clock),</p> <p>(c.) Time-based scheduled dimming,</p> <p>(d.) Calendar-based schedules,</p> <p>(e.) Adaptive Light-on-Demand (when an external motion sensor is connected),</p> <p>(f.) Emergency Mode through external trigger via LMS,</p> <p>(g.) Maintenance on/ off through External Maintenance App (at no additional costs)</p> <p>(h.) RGBW based color streetlights via DALI (optional)</p>
13	Lighting Control Compatibility	<p>ILC must support the following switching and dimming protocols (LED Driver):</p> <p>(a.) DALI, DALI 2.0 and DALI D4I</p> <p>(b.) DALI DT6 and DALI DT8</p> <p>(c.) 0-10V DC / 1-10V DC</p>
14	QR Code	<p>ILC must be uniquely identifiable through QR code. Provide at least two additional QR code labels, one for placing on the luminaire and other inside the junction box</p>
15	Over-the-air update (OTA)	<p>(a.) It must be possible to OTA update the software/ firmware of the ILC remotely, without local site support in the field,</p> <p>(b.) It must be feasible to OTA update the ILCs within minutes (say, no more than 10 minutes per ILC),</p> <p>(c.) It must be feasible to OTA update multiple ILCs simultaneously</p>
16	Remote Monitoring	<p>ILC must work with the existing LMS and Smart City Operational Centre at Jaipur Development Authority (JDA). It will be the responsibility of OEM supplier to integrate their ILC to JDA Smart City platform at no additional costs.</p>
17	Standard warranty	<p>ILC must carry 3 years standard hardware warranty. OEM must guarantee product continuity, product spare-parts availability and end-of-life support for at least 3 additional</p>

		years.
18	Certifications & Compliance (product)	<p>JDA places high value on quality. ILC must be tested for at least the following electrical safety standards.</p> <p>(a.) EN 61347-2-11 and EN 61347-1 (or similar)</p> <p>(b.) IEC 55015 (or similar)</p> <p>(c.) EN 61000-3-3 and IEC 61547 (or similar)</p> <p>(d.) IP66 ingress protection</p> <p>(e.) IK09 impact resistant</p> <p>(f.) Class II</p> <p>(g.) RoHS</p> <p>(h.) BIS or CE/ CB certificate from authorized certification agency</p> <p>ILC shall be independently certified by 3rd party. Self-issued certificates are not acceptable.</p>
19	Local Support	<p>(a.) OEM must be headquarter or have a fully operational support local office in India</p> <p>(b.) OEM must provide a fully automated remote ticketing system, including professional RMA handling</p>
20	Submission (Documents, Certification and Samples)	<p>Supplier must provide at least the following documents:</p> <p>(a.) Technical datasheet.</p> <p>(b.) Installation manual.</p> <p>(c.) Certification listed above, including IP, IK certificates from authorized independent certification agencies. Self-testing is not accepted.</p> <p>(d.) Project references / Case Studies / Company or Product Presentation</p>

70 Watt Luminaire:

S. No.	Parameters	Technical and Functional Requirements // LED Street Light Fixture
1	Integrated product	LED streetlight fixtures 70W with Nema 7-pin receptacle, dimmable driver and shorting cap - suitable for existing bracket / pole.
2	IP66	Fixture shall have two separate compartments for the LED modules and the LED Driver, and both compartments should be hermitically sealed to achieve IP66 ingress protection.
3	Connector	Fixture shall have integrated Nema 7-pin receptacle: ANSI c136.41 compliant - for ease of mounting external Nema intelligent streetlight controller
4	Over-voltage protection	There should be sufficient space inside the fixture to integrate over-voltage protection device (OVP). OVP to be connected between the AC input wires (from the power grid) and the Nema receptacle.
5	Material	Fixture shall be made of powder-coated single piece pressure die cast aluminium LM6/ ADC12 material with heat dissipation fins on housing.
6	Lens	Secondary lens on each LED module must be SMD type.
7	UV protection/ Impact rating	Fixture shall use UV stabilized toughened glass / polycarbonate cover (UV stabilization report submitted for the cover) to withstand IK07 impact rating.
8	Efficacy	The system level luminaire efficacy shall be ≥ 140 lumen/watt with high power LEDs to be used.
9	DALI based Dimming	LED Driver shall be capable of DALI dimming. Dimming shall be compliant to IEC 62386 standard and offer flicker free lighting.

10	Electrical parameters	<p>Input Voltage: 120 to 270 VAC (or better) with high-voltage cut-off at ≥ 270 VAC with auto-reset</p> <p>Driver should have phase-to-phase protection of 440 V for 4 hours</p> <p>Driver in-built surge protection: ≥ 4 kV</p> <p>Luminaire in-built surge protection: ≥ 10 kV</p> <p>Input Frequency: 50 Hz $\pm 3\%$</p> <p>Power Factor: > 0.95</p> <p>Driver Efficiency: $> 85\%$, THD(I): $< 10\%$</p> <p>Humidity: 10% to 90% RH</p> <p>Working temperature: -5°C to 60°C</p> <p>Driver current: $< 1000\text{mA}$</p> <p>Color Rendering Index: > 70</p> <p>CCT: 5700K +/- 355K</p>
11	Product life-expectancy	<p>Life-expectancy of the overall fixture shall be greater than 50000 burning hours, tested at maximum current and 105 Deg C with minimum 70% lumen maintained.</p> <p>Street light fixture (including LED Driver and other components) must carry at least 3 years standard hardware warranty post-project handover - for Jaipur climatic conditions. OEM must guarantee product continuity, product spare-parts availability and end-of-life support for at least 3 additional years.</p>
12	Compliance	Street light fixture shall be IS 10322 (Part 5/ Section 3) Compliant and BIS certified.
13	Logo marking	Manufacture's name / logo shall be engraved/ embossed on die-cast housing to allow traceability / authenticity
14	Documentation / Submission	A copy of LM79, LM80 reports, UV stabilization report, IP66, IK07 certificates, product datasheets, warranty commitment must be submitted together with the compliance sheet and proposal.

15	Credibility	Manufacturer (fixture OEM) must have their own in-house NABL lab setup for all testing facilities for LED fixtures.
16	Quality approval	All submissions should be approved by engineer-in-charge. One samples shall be submitted before awarding work order.

Over Voltage Protector:

Reference is made to the Over-voltage Protector specifications as described in Annex A. Follow the same compliance sheet for this streetlight fixture (Annexure B).

IOT Based Individual light Controller:

Reference is made to the IoT Based Individual Lamp Controller specifications as described in Annexure-A. Follow the same ILC compliance sheet for this streetlight fixture (Annexure-B).

Smart lighting Software application:

S. No.	Parameters	Technical and Functional Requirements // Over-Voltage Protection Device
1	LMS provision & Interoperability	(a.) OEM must provide its own LMS for remote monitoring, management, metering, controlling and configuring of all the ILCs. (b.) Such LMS must have Open API to connect with 3rd party Smart City platforms, Integrated Command & Control Centre, Asset Management Systems and other software systems (e.g. billing). This is a mandatory requirement.
2	Multiple Applications	LMS must be a complete suite of web-based software applications that provides full remote management for both individual controlled and group controlled streetlights
3	Streetlight Grouping	LMS must provide a hierarchical structure for organizing the streetlights across the city in a logical manner, namely Project level, Group level (e.g. east, west, central, etc.), and Organization level (e.g. different System Integrators).
4	ILC visualization	The visualization of the street lighting network need to be based on Google Maps, so that city can relate the street light location in relation to other city infrastructure.
5	Geo-location	LMS must be able to assign street name and address automatically based on the GPS coordinates of the ILC/ street light fixture
6	Light Profiles	LMS must allow for an unlimited number of Light Profiles (also called, Dimming Profiles or Light Scenes) to meet the lighting needs of different streets and areas: (a.) Fixed light level, (b.) Time based scheduling, (c.) Dynamic lighting levels (to support motion sensor based adaptive lighting)

		(d.) Colour control (using multi-addressable DALI, DT6, DT7 and DT8) based on time schedule or dynamic detection
7	Lamp Switching	LMS must support at least the following modes for lamp-switching: (a.) Based on local light sensor (i.e. ALS inside the ILC) (b.) Astro-clock timer (automatic sunset/ sunrise timer based on geo-location of an ILC)
8	Light Profile Check	LMS must be able to visualize all the set Light Profiles over a period of time (for any specific year/ date/ time) This is to enable the city administration to accurately check the light levels of all streetlights across the city over specific hours of the night, thereby assuring public safety.
9	Emergency Control	(a.) LMS must allow temporary override of all light settings, in case of an emergency or maintenance activities (e.g. switch all streetlight fixtures to 100% light level). (b.) It should be possible to send such an override command via the LMS dashboard as well as a Mobile App
10	Safety	LMS must assure that: (a.) In an unlikely event of any technical failure or network outage, the ILC's must follow their pre-set light profile, (b.) In an emergency situation, all street lights can be turned to 100% safety light level with a single click
11	ILC Reporting	Regular reports generated by ILC (e.g. every 15 minutes) must be visible on LMS. Such reports must contain at least the following parameters: Reporting date/ time, Brightness log (hh:mm:ss) and number of motion sensor triggers (when applicable).
12	Multiple Driver support	LMS must provide interface for selecting different types of ILCs/ Drivers, namely, 0-10V, 1-10V and DALI

13	Energy Monitoring	<p>(a.) LMS must provide an aggregated Energy and CO2 consumption overview in a graphical format for the city administration.</p> <p>(b.) It must be possible to download this information in .csv format</p>
14	Analytics visualization	<p>(a.) LMS must be able to visualize all the analytical data in graphical format. Such graphs must at least include an aggregated overview of the energy used, energy saved, % energy saved, for a specific number of days, weeks or months.</p> <p>(b.) Visualize data such as grid voltage and active power – preferably every 15 minutes</p> <p>(c.) When motion sensors are used within the lighting network, then it must also be possible to visualize the number of triggers per sensor or a group of sensors.</p>
15	Asset Information	<p>(a.) LMS must allow for the recording and storage of basic asset management data, namely Luminaire manufacturer, Manufacturer part number, Lamp wattage, Lamp type, Housing type, Driver information</p> <p>(b.) LMS must also be able to record Street pole ID, any specific name/ ID</p> <p>(c.) There must be a provision to be able to write custom notes for a specific street light fixture/ ILC</p>
16	Alerts/ Notifications	<p>(a.) User must be able to see detailed Alert/ Notification per streetlight fixture. Such Notification must include data such as ILC ID, Error type, Error Message, Error date/ time.</p> <p>(c.) Summary of important notifications must also be available as a daily digest email. City administration must be able to set the number of users who should receive such daily digest emails.</p> <p>(d.) It must also be possible to send the notifications to a Central Command & Control center (Asset Management system) via API</p>

17	User Rights	<p>LMS must offer a dedicated separate application for User Rights Management:</p> <p>(a.) Option to provide access (or revoke access) to specific Projects or Groups to a User</p> <p>(b.) Option to provide different levels of access per User e.g. administrator versus field worker</p> <p>(c.) Option to provide read and/ or write access per User</p> <p>(d.) Option to provide access to specific assets e.g. specific number or type of ILCs</p> <p>(e.) Access to multiple users (with different access control levels) should be available at no additional cost to the city administration. In other words, no additional charges would be paid by the city based for any number of users.</p>
18	Security	<p>(a.) LMS must have end-to-end data security (fully encrypted data communication on all levels)</p> <p>(b.) Supplier must be able to continually upgrade the LMS without affecting the installed lighting network. In other words, LMS must offer backwards compatibility</p> <p>(c.) Supplier would provide such updates to the city at no additional costs to the city</p>
19	Multi Language support	<p>(a.) LMS must be available in English language. It should be possible to add other local languages such as Hindi/ Rajasthani.</p> <p>(b.) LMS must offer In-App guide/ help feature. This is for the User to easily navigate through the LMS.</p>
20	Accessibility	<p>LMS must be accessible from any computer or mobile device through secure access portal. Access must not be limited to a couple of PCs.</p>
21	Hosting Security	<p>(a.) LMS must be available as a Software Service (SaaS) with automatic data backup on a regular basis.</p> <p>(b.) LMS must be hosted in a reliable, secure data centre carrying ISO/ IEC 27001 certification and / or supporting Ministry of Electronics and Information Technology (MeitY) guidelines.</p>

Mobile Applications (APPs):

S. No.	Parameters	Technical and Functional Requirements // Mobile APPs
1	Mobile App 1 (Commissioning)	<p>LMS must provide a compatible Field App for commissioning an ILC:</p> <p>(a.) Such an App should be able to geo-tag and auto-commission an ILC,</p> <p>(b.) Such an App should be available for both Android and iOS systems.</p> <p>(c.) All LMS users should be able to use the App at no additional cost.</p>
2	Mobile App 2 (for Operations Team)	<p>The LMS software suite must include compatible Field Apps for the Operations Team:</p> <p>a.) Such an App should be able to turn all streetlights in a given area surrounding the incident to full 100% brightness. The App should also be accessible for to police/ fire department, if requested at no additional costs.</p> <p>b.) Such field application must support switching and dimming of individual or group of lamps within 200 meters surrounding the location of the User with the App.</p> <p>c.) App must also include a configurable expiration time-setting (for example, 15, 30 or 60 minutes). This is to ensure that after expiration, the selected lamp(s) automatically fall back to their pre-programmed light profile.</p>
3	Mobile App 3 (Event Management)	<p>Event Management App should allow controlling of a certain group of lights by an approved User. For instance, a facility manager can be granted limited access to streetlights around local sports stadium. Likewise, site manager of a area can be granted limited access to specific streetlights within the area.</p>
4	Mobile App 4 (Citizen Mobile App)	<p>Mobile web application for Android / iOS mobile phones to be developed during the project for complaint registration by citizens. This App should work like CRM process flow. That is, from complaint registration to attend till complaint resolution to be done online.</p>

Project Deliverables, Milestones & Time Schedule:

- The Bidder is required to supply, install, test and commission the new infrastructure as mentioned in the Scope of Work within stipulated period from the date of work order placed by JDA.
- Suitable time extension shall be granted by JDA upon submission of such request by the selected bidder with all the relevant documents.
- No penalties/LD shall be applicable when such time extensions are granted due to the reasons not attributable to selected bidder.
- During the implementation phase, all the required permissions shall be arranged by selected bidder. However, JDA shall facilitate such permissions upon request by the selected bidder. Any delays in implementation on account of delay in receipt of permissions shall be excluded from project timelines.
- To expedite the implementation of the new critical infrastructure, all approvals, and signoffs from JDA shall be provided within 10 days of submission of such report, document etc., failing which the respective report/document shall deem to be accepted.

Payments Terms:

S. No.	Milestone	Payment
1	Upon Supply of Material duly supported invoice copy and physical material verification/ Delivery Challan and required necessary test reports.	60%
2	Upon Successful Installation and testing of streetlights (on submission of system generated reports).	30%
3	Upon Successful Commissioning and go live	10%

- FMS (O&M) payment shall be paid on monthly basis.**
- The successful bidder will make the request for payment in writing after completion and fulfilment of service level agreement, accompanied by invoices describing, as appropriate, the supply, and by the required documents submitted pursuant to the contract and upon fulfilment of all the obligations stipulated in the Contract.
- Payment shall be released within 10 days from the date of submission of invoice with the required supporting documents.

- iv. In case of any discrepancy in the invoice, the same shall be communicated by JDA to Bidder within 7 days of Invoice submission.
- v. The currency or currencies in which payments shall be made to the successful bidder under this Contract shall be Indian Rupees (INR) only.
- vi. All remittance charges will be borne by the successful bidder.
- vii. In case of disputed items, only the disputed portion of amount shall be withheld which will be paid after settlement of the dispute. The balance undisputed payment shall be paid within the stipulated timeline of 10 days of invoice submission.
- viii. The penalties shall be calculated on monthly basis and deducted from monthly payments of O&M.
- ix. Labour cess shall be applicable as per government policy on basic contract value except Software and Mobile App.

Service Level Agreement

- a) All the complaints related to non-functioning of smart luminaire should be resolved within 24 hours of complaint registration.

Calculation Criteria	Amount of Penalty
Within 24 hours	No penalty
24-48 hours	Rs. 50 per Luminaire
More than 48 hours	Rs. 100/- per day for per Luminaire.

- b) Software and Mobile App Functionality.

Calculation Criteria	Amount of penalty
Average Uptime 99.5% or above	No penalty
Average Uptime between 98.5%- 99.4%	Rs 10,000/- per day
Average Uptime below 98.4%	15000 per day

- c) The successful bidder shall nominate a O&M manager for this project and he shall remain available on all working days at JDA, and in case of absence a penalty of Rs. 2000/- per day shall be imposed for remaining absent from JDA and which shall be deductible from O&M bill.

- d) Bidder must have own/leased hoist/ crane/lifter for smooth O&M activity of luminaire, ILC, Repair /Replacement. In case of non-availability of the hoist/ crane/lifter, a penalty of Rs. 3000/- shall be imposed on bidder.

Terms & Conditions of Bid & Contract

- 1. Contracting:** Under this contract Sub-Contracting is not allowed by the successful bidder(s) for complete project.
- 2. Project/Contract Period:** The successful Bidder is expected to carry out all groundwork before starting the services in direction of Nodal Officer of this project. Initially the contract period shall be as per delivery schedule mentioned in the bid document. The contract period can be extended for another period on mutual consent on approved rates as per Act.
- 3. Delivery and Start of Services:** The successful Bidder will start the services as per the date mentioned in the Award of Contract (AoC)/ Work Order which will also be treated as the start of project date.
- 4. Manpower**
 - a) The successful bidder shall nominate a O&M manager for this project and he shall remain always available on all working days at JDA and in case of absence, penalty of Rs. 2000/- per day shall be imposed for remaining absent from JDA and which shall be deductible from O&M bill.
 - b) The Maximum Penalty during O&M Period shall be limited to monthly Invoice Value of O&M for particular month .
 - c) The professional shall be entitled for Government Holidays. However, on Government Holidays the services may be asked for as per the need without any extra cost.
 - d) If there is a need to replace an existing professional manpower requested by the Nodal officer the bidder will replace the same within 3days.
 - e. If the bidder and/or his employees are found to be directly or indirectly involved in any unwanted activities, his services would be terminated. The bidder is responsible for the character of the all employees provided by him.
 - f. The legal bidding as per the industries dispute act. Payment of wages act. , contract labour Act., and other as per training to Civil/Criminal

legislation, Medical claim if any, are the obligations of the bidder. The JDA would have no responsibility for the same.

- g. It is the responsibility of the bidder to provide payments, and other facilities as per the nominal wages in accordance with the law. All issues pertaining to the same would be dealt with by the bidder. The JDA would have no role in this.
- h. The State insurance, Provident Fund, Pension Gratuity, leaves, wages etc. as applicable, would have to be provided by the bidder and he would also be accountable for the employees. If for any reason, legal proceeding is undertaken against any employee, the bidder shall bear the responsibility. The JDA would not represent the same.
- i. JDA shall not have any liability/pay compensation towards any injury/accident to the firm's employee while carrying out the maintenance/repair work under this contract.
- j. The bidder should also ascertain that as per contract the employees would not be from any group/union etc. And would also not participate in such nor represent the same. If such incidence comes under the notice of the JDA, it will terminate the contract.

Locations where Street Lights are to be replaced

Sr. No.	Name of sites of existing installation
1	Khirni Phatak Underpass
2	JP Phatak Underpass
3	Arjun Nagar underpass
4	Kalyan Nagar underpass
5	Transport Nagar Underpass
6	Naradpura JDA scheme
7	RUB on Jaipur Sikar railway line near bridge no. 107 to connect Anand Lok and Swapna Lok JDA scheme
8	Goner Village
9	At entrance road of Goner Village
10	SL on approach road of AHS at village Lalpura Ramla ka baas Kalwar road
11	SL on approach road of AHS at village Prem Nagar Kalwar
12	SL on approach road of AHS at village Bagru Khurd Ajmer road Jaipur
13	SL on approach road of AHS at Shyampura Bhuhariya vatika road jaipur
14	SL on approach road of AHS at 200 feet Muhana Mandi Road ,village Nevta Jaipur
15	SL on approach road of AHS at Narsinghpura, Ajmer Road , jaipur
16	Hathoj to kalwar road
17	Sirsi Road
18	Ajmer Road to Manipal University
19	Rajeev Awas Yojna keero ki dhaani
20	Kalwar road to JDA scheme Hathoj Kardhani
21	Ajmer road to SEZ and internal roads of SEZ
22	12 Mile to vatika
23	Delhi road to labana BSF camp
24	Jaisinghpura Khor
25	Any other roads selected by JDA

Note: These are tentative location for project execution, but JDA reserves the right to add or change the project execution locations in JDA region.

List of Approved Makes:

Luminaire OEM Eligibility Criteria	
Sr. No.	Criteria
1	Street light fixtures shall be Bajaj, Crompton, Philips, Surya, Wipro and Havells make with proven experience, expertise, reliability and local representation.
2	OEM must have in-house NABL accredited photometric lab in manufacturing Unit. Certificate of the same must be enclosed.
3	OEM must enclose factory licence

OEM Eligibility Criteria for Node/ Intelligent Lamp Controller (ILC)	
Supply Make	ILC must be Zumtobel Thorn, Trilux, Tvilight make with proven experience, expertise and reliability and local representation. ILC must be vendor independent and must work with street light fixtures from different suppliers.
Local Support	OEM must be headquartered or have an operational support office in India. OEM shall provide automated ticketing system.
LMS Provision	OEM must provide LMS for remote monitoring, management, metering, controlling, and configuring of all ILC's.



JAIPUR DEVELOPMENT AUTHORITY

Name of Work: - Conversion of existing HPSV & Normal LED lighting System into NB IoT based LED Smart lighting System, which are installed by JDA at various locations beyond the Jaipur Nagar Nigam Jurisdiction / energy bills paid by JDA.

TECHNICAL BID

**Executive Engineer (Elect.-I)
JAIPUR DEVELOPMENT AUTHORITY, JAIPUR**

JAIPUR DEVELOPMENT AUTHORITY JAIPUR

TECHNICAL BID (Post Qualification)

Envelop-1

FOR

Name of Work: - Conversion of existing HPSV & Normal LED lighting System into NB IoT based LED Smart lighting System, which are installed by JDA at various locations beyond the Jaipur Nagar Nigam Jurisdiction /energy bills paid by JDA.

Period of Sale: - From 30.06.2023, 9.30 AM to 20.07.2023, 6.00 PM
Date of Submission of the tender: - Upto 20.07.2023, 6.00 PM
Date of Opening of Technical bid: - On 26.07.2023 at 11.00 AM at Room No. JB FF-114, Court Building, Ram Kishore Vyas Bhawan, Indira Circle, Jawahar Lal Nehru Marg, Jaipur- 302004 (Rajasthan)
Cost of tender: - Rs. 1166.00 Lacs
Completion period: - 04 Months for SITC Work & 3 Years for O&M and Ward & Watch of the System after Completion of SITC Work

NAME OF AGENCY -----

**Executive Engineer (Elect.-I)
JDA, Jaipur.**

JAIPUR DEVELOPMENT AUTHORITY, JAIPUR

SPECIAL CONDITION OF THE CONTRACT FOR POST QUALIFICATION OF CONTRACTORS

Name of work: - Conversion of existing HPSV & Normal LED lighting System into NB IoT based LED Smart lighting System, which are installed by JDA at various locations beyond the Jaipur Nagar Nigam Jurisdiction /energy bills paid by JDA.

Special conditions of contract of POST QUALIFICATION as detailed here under, shall be applicable in addition to all other terms and condition already prescribed under standard agreement forms/rules and regulations to contract:

1. Procedure:

Procedure for **POST QUALIFICATION** would be as follow:

- (a) Two-envelope (docket) system would be adopted, for POST QUALIFICATION, Docket-1 being for Technical Bid and Docket-2 being for Financial Bid.

Docket-1:- There will be three separate folders- **Folder-1** is for proof of deposition of Bid Security, cost of bidding document and bid processing fee along with copy of GST registration, Annexure -B" (RTPP Act/Rules) is mandatory to be fulfilled & signed with seal and copy of enlistment as contractor/ bidder in required category or ICT system integrator /Smart City integrator having valid appropriate class electrical license. **Folder-II** is for bid document and **folder-III** is for technical bid.

Docket-2:- There will two separate **folders-1** is for financial bid and **folders-2** is for bill of quantities.

- (b) The technical bid will be opened only of whose bidders those proper Bid Security, copy of GST registration, proof for deposition of bidding document fee, RISL processing fee, copy of enlistment of contractor in required category and signed Annexure -B" (RTPP Act/Rules) is mandatory to be fulfilled & signed with seal are found to be in order. The bid Security will be accepted only in from of online deposition or in form of Bank Guarantee.
- (c) The Technical Bid envelope would be opened on the dated **26.07.2023 at 11.00 AM** in the chamber of Executive Engineer Room No. JB FF-114, Court Building, Ram Kishore Vyas Bhawan, Indira Circle, Jawahar Lal Nehru Marg, Jaipur- 302004 (Rajasthan)
- (d) The Financial Bid envelope would be opened only of those bidders who fulfill all the POST QUALIFICATION CRITERIA.

2. Criteria:

Criteria for **POST QUALIFICATION** would be as follows:-

S. No.	Category	Criteria	Documents Required
1	General Requirement	Bidder should be an established ICT System Integrator and should have been engaged in at least One Smart City project in India invited by any Government agency only which include Supply, Installation, testing, Commissioning with Operations & Maintenance of smart solutions in the last 7 financial	Copies of relevant work order and contract agreement showing order value supported by below certificates: Work Completion Certificates issued by Govt. of India, State Govt., Union Territory, Govt. Undertakings, Autonomous bodies shall only be

		<p>years ending 31.03.2022. The value of contract must be above or equivalent to 11.66 crore.</p> <p>Area of operations must include any 2 out of 6 smart elements in any one smart city:</p> <ol style="list-style-type: none"> 1. Smart Lighting system. (Mandatory) 2. Wi-Fi. 3. CCTV. 4. Environmental sensors. 5. Smart Parking System. 6. ICOC/NOC/data Centre <p style="text-align: center;">OR</p> <p>Bidder should have completed single project of smart lighting solution (individual light control) implementation of 50% of estimated tender value in last seven financial years for any government agency in India.</p>	<p>considered.</p> <p>Work Order + Phase Completion Certificate issued by Govt. of India, State Govt., Union Territory, Govt. Undertakings, Autonomous bodies shall only be considered</p> <p style="text-align: center;">OR</p> <p>Attached work order, G-Schedule/BOQ and work completion certificate</p>
2	Legal Entity	<p>The bidder should be a Proprietorship firm duly registered either under the Rajasthan Shops & Commercial Establishments Act, 1958 or any other Act of State/ Union, as applicable for dealing in the subject matter of procurement</p> <p style="text-align: center;">OR</p> <p>A company registered under Indian Companies Act, 1956 OR A partnership firm registered under Indian Partnership Act, 1932.</p> <p>Consortium/Joint Venture is not allowed.</p>	<ol style="list-style-type: none"> 1. Copy of valid Registration Certificates. 2. Copy of Certificates of incorporation.
3	Turn Over	<p>The bidder should have achieved an annual financial turnover of at least 60.00% of the Estimated Cost of the work (bid cost) in any one of last seven financial years (including current year, if opted by the bidder)</p>	<p>The bidder should enclose certificate of Turn over from Chartered Accountant for last seven financial year & audited balance sheet of the year which is considered by the bidder.</p>
4	Net Worth	<p>The net worth of the bidder should be positive, as on last financial year 31st March 2022</p>	<p>CA Certificate with CA's Registration Number/ Seal.</p>
5	Tax Registration	<p>The Bidder should possess the following documents:</p> <ol style="list-style-type: none"> a. GST Registration Certificate b. PAN Card 	<p>The Bidder is required to furnish the Copies of the GST Registration Certificate and PAN card.</p>

6	Appropriate class	E-I class contractors registered in the appropriate class with CPWD, Postal, Telegram, Railway, MES, Other State Government/Central Government undertakings/organizations. (The bidder must capable to bid in the bid as per their enlistment) OR ICT system integrator /Smart City integrator having valid appropriate class electrical license.	Required Certificate of Appropriate class
7	RTTP Act/ Rules	Declaration by the Bidder regarding Qualifications	Self-Declaration by the bidder as per Annexure-B''
8	Self-Declaration	Details Regarding Evaluation Criteria	Self-Declaration by the bidder as per Annexure-A'

Executive Engineer (Elect.-I)
Jda, Jaipur

Project Profile & Background Information

1. The Jaipur Development Authority (JDA) was established in the year 1982. JDA was created by the of maneuver the growing requirements of a large city wake of the increasing population and to help give Jaipur a planned look compatible and comparable to any metropolitan city of repute. For this motive JDA was given powers and a green signal to speed up the development and progressive growth of the entire city.
2. The initiative of the e-governance projects the major work area is being rendered through IT based solutions. Many activities are now performed through IT support solutions.
3. JDA is committed to working for the benefit of the citizens of Jaipur with planned implementation of development schemes and is consistently striving to take Jaipur to higher levels of progress. To meet its objective, JDA intends to provide, safety and security solutions, cost effective and easy access to information, through multiple device stores indents of Jaipur.

JDA is maintaining more than 5000 streetlights across Jaipur. Among these 5000 streetlights mostly are HPSV lights which consumes more energies and availability of spares is also a challenge and due to this many times complaints remains pending for a long time. As GoI and state government have taken initiative to convert these non-energy efficient lights into energy efficient light with smart solutions. Accordingly, JDA intend to replace them by smart led luminaire with smart solutions. This smart solution shall bring cost saving to JDA by feature of dimming of lights as per need. This solution shall also provide instant report to JDA about fault in particular streetlight and shall provide different kind of reports for intelligence and recurring energy bill saving.

Broad Scope of Work

1.0 The broad scope of work will include:

- a. Survey of existing HPSV/LED streetlight/flood lights as mentioned in annexure 11.
- b. Submission of survey report and execution planning for approval by JDA.
- c. Supply of material as per approved quantity.
- d. De-installation of existing luminaire and installation of new luminaire with ILC.
- e. Software and mobile app installation and commissioning.
- f. Mobile app launching on Android & IOS platform.
- g. Testing and commissioning of complete smart lighting systems.
- h. Submit go live request.
- i. O&M activity with ward and watch of the complete lighting system for 3 years.

2.0 Bidder shall be responsible to buy back existing traditional sodium vapor lamp street lights/ flood lights and normal led street lights.

3.0 FMS for smooth functioning of the new infrastructure shall be provided by selected bidder and details of same is given under section **Service level Agreement** in this document.

4.0 Project Deliverables

The Bidder is required to supply, installation and commissioning of smart LED luminaire with smart solution. The bidder shall be responsible for the O&M of complete solution with ward and watch for 3 years from the date of go live.

- The bidder is advised to visit the sites of locations as well as Network Operations Centre (NOC) established at JDA HQ building at Jaipur to make an independent assessment of the quantum of the work involved.
- The JDA shall facilitate the bidder for any per missions/issues if required/ resolved with the various departments of the State / Central Government.
- Successful bidder shall take insurance for the complete setup for any theft, fire, damage etc. for the complete contract period.
- Bidder shall be responsible for pay the charges of hosting of application of smart lighting solution and all kind charges of Play store and Apple (App store) for the Mobile App.
- Bidder shall be responsible for generating all type reports as needed to JDA from Software and JDA shall not pay any other additional charges for such work.
- Bidder shall be responsible for carry out other misc. work as required to complete the project and JDA shall pay the charges if request of such charges found satisfactory.
- Bidder shall not be responsible for accidental damage of Pole but shall be responsible for luminaire and ILC breakage/theft etc. In case of theft/ breakage, the bidder have to replaced luminaire and ILC within 48 hours.
- Bidder shall not penalized for data is not coming on Mobile app/Software during Internet services closed by Government order in Jaipur.

SCHEDULE-I
FINANCIAL RESOURCES AND CAPABILITY
(Reference clause 3(a))

1. Name of Bidder:-
2. Total financial turnover achieved by the bidder in the last Seven financial years;

S.No.	Year	Turnover
(i)		
(ii)		
(iii)		
(iv)		
(v)		
(vi)		
(vii)		

Note: Balance Sheets and Profit & Loss Accounts is to be enclosed by the bidder which is considered by him as per criteria 2(a).

3. Total financial Turnover projected in the current financial year.
4. Has the bidder ever been debarred from tendering for Central Government/State Government/any Government undertaking?
Yes/No, If yes give details.
5. Has bidder ever been declared insolvent?
Yes/No, If yes give details.
6. Name(s) and Address of Branch/(s) for bidder's Bankers.

I/We hereby certify that the above information is correct to the best of my/our knowledge and belief.

Date:

**Signature & Seal
of the Bidders**

SELF-DECLARATION

I/We.....Proprietor/Partner/Authorized signatory of M/s.....under take the oath that the information furnished by me/us in Details Regarding Evaluation Criteria 1 to 9 of the assessment Bid foris correct to the best of my/our knowledge. If any information is found to be incorrect JDA has right to reject the Bid and to take action against me/us as per rules.

.....
Proprietor/Partner/ Authorized signatory
M/s.....
.....

Note:- This self-declaration is mandatory to be signed by the bidder failing which the bid shall summarily be rejected without asking any clarification.

Declaration by the Bidder regarding Qualifications
Declaration by the Bidder

In relation to my/our Bid submitted tofor procurement ofin response to their Notice inviting Bids No.....Dated.....I/wehereby declare under Section 7 of Rajasthan Transparency in Public Procurement Act, 2012 that:

1. I/we possess the necessary professional, technical, financial and managerial resources and competence required by the Bidding Document issued by the Procuring Entry;
2. I/we have fulfilled my/our obligation to pay such of the taxes payable to the union and the state government or any local authority as specified in the Bidding Document.
3. I/we are not insolvent, in receivership, bankrupt or being wound up, not have my/our affairs administered by a court or a judicial officer, not have my/our business activities suspended and not the subject of legal proceedings for any of the foregoing reasons;
4. I/we do not have, and our directors and officers not have, been convicted of any criminal offense related to my/our professional conduct or the making of false statements or misrepresentations as to my/our qualifications to enter into a procurement contract within a period of three years preceding the commencement of this procurement process, or not have been otherwise disqualified pursuant to debarment proceedings;
5. I/we do not have a conflict of interest as specified in the Act, Rules and the Bidding Document, which materially affects fair competition;

Date:

Signature of the bidder

Place:

Name:

Designation:

Address:

Note:- Annexure "B" is mandatory to be fulfilled & signed with seal by the bidder failing which the bid shall summarily be rejected without asking any clarification.

Details Regarding Evaluation Criteria

Name of work :-

S. No.	Item	Minimum Requirement (As per Bid)	Remark			
				Year	Qty.	Page No.
1	Copy of GST Reg. Certificate					
2	1. Proof of Bid Security deposition 2. Proof of bidding document cost deposition 3. Proof of RISL fees deposition.					
3	E-I class contractors registered in the appropriate class with CPWD, Postal, Telegram, Railway, MES, Other State Government/Central Government undertakings/organizations. (The bidder must capable to bid in the bid as per their enlistment) OR ICT system integrator /Smart City integrator having valid appropriate class electrical license.					
4	Bidder should be an established ICT System Integrator and should have been engaged in at least One Smart City project in India invited by any Government agency only which include Supply, Installation, testing, Commissioning with Operations & Maintenance of smart solutions in the last 7 financial years ending 31.03.2022. The value of contract must be above or equivalent to 11.66 crore. Area of operations must include any 2 out of 6 smart elements in any one smart city: 1. Smart Lighting system. (Mandatory) 2. Wi-Fi. 3. CCTV. 4. Environmental sensors. 5. Smart Parking System. 6. ICOC/NOC/data Centre OR Bidder should have completed single project of smart lighting solution (individual light control) implementation of 50% of estimated tender value in last seven financial years for any government agency in India.					
5	Legal Entity :- The bidder should be a Proprietorship firm duly registered either under the Rajasthan Shops & Commercial Establishments Act, 1958 or any other Act of State/ Union, as applicable for dealing in the subject matter of procurement OR A company registered under Indian Companies Act, 1956 OR A partnership firm registered under Indian Partnership Act, 1932. Consortium/Joint Venture is not allowed.					
6	Turn Over :- The bidder should have achieved an annual financial turnover of at least 60.00% of the Estimated Cost of the work (bid cost) in any one of last seven financial years (including current year, if opted by the bidder) Schedule-I					
7	Net Worth :- The net worth of the bidder should be positive, as on last financial year 31st March 2022					
8	Self-Declaration Annexure-A'					
9	Signed Annexure -B'' (RTPP Act/Rules)					

Note:- This sheet must be prepared and submitted by the bidders.

**Signature & Seal
of the Bidders**

Name of Work: Conversion of existing HPSV & Normal LED lighting System into NB IoT based LED Smart lighting System, which are installed by JDA at various locations beyond the Jaipur Nagar Nigam Jurisdiction/ energy bills paid by JDA

G-Schedule

S. No.	Particular	Unit	Qty.	Rate	Amount
	Part-A				
1.0	Replacement of existing HPSV/LED Street lights by SITC of LED street light fixture >140 lm/w with dimmable DALI driver (0-10V) and 7-pin receptacle NEMA socket. Complete in all respect as per details below				
1.1	SITC of 110 Watts LED Luminaire of >140lm/w with dimmable DALI driver (0-10V), IP66 with 7 pin recetpable NEMA socket & SITC of Nema 7-pin IoT based Intelligent Lighting Controller with 0-10V DC dimming output with all inclusive SIM Card and connectivity charges for 3 years from Go live & SITC of Over-Voltage Protection device (power cut-off at >270V and <170V) to be installed either inside the street light fixture or inside the junction box at the bottom of the lamp post. Complete in all respect as per annexure A	Each	3,881.00	18,200.00	70,634,200.00
1.2	SITC of 70 Watts LED Luminaire of >140 lm/w with dimmable DALI driver (0-10V), IP66 with 7 pin recetpable NEMA socket & SITC of Nema 7-pin IoT based Intelligent Lighting Controller with 0-10V DC dimming output with all inclusive SIM Card and connectivity charges for 3 years from Go live & SITC of Over-Voltage Protection device (power cut-off at >270V and <170V) to be installed either inside the street light fixture or inside the junction box at the bottom of the lamp post with. Complete in all respect as Per Annexure B	Each	1,119.00	17,200.00	19,246,800.00
2.0	Design, Development, Customization and Hosting on Cloud, Street Light Smart Management Software, Secure Data base, Remote controlling, Monitoring, Power metering features and all kind reports Generation & Development, Customization and Hosting of Mobile Apps for Street Light Management for field activity, Training on Software and Mobile app, all kind recurring charges & All upgrade, O&M, bug fixing for three years for upto 5000 ILCs. Complete in all respect as per Annexure-C	Each	1.00	16,500,000.00	16,500,000.00
3.0	Comprehensive Operation & Maintenance of the complete lighting system (new installation) for 3 years from the date of go live, include all kind incidental expenses, insurance cost and manpower cost & Hoist/lifter/crane charges including ward and watch. Complete in all respect as per tender document	Each	5,000.00	2,400.00	12,000,000.00
	Part-A				118,381,000.00

	<p>Part- A :-</p> <p>*The Bidder has to quote percentage below/ above rates on the give rates.</p> <p>We quote our rate % below / above on the G-Schedule Part-A.</p>				
	Total (Part-A)				
	Part-B				
1.0	The Buy back of the existing lighting fixtures, The bidder has to replace the existing lighting fixture for installation of new energy efficient LED Smart lighting System. These replaced/removed lighting fixture is to buy back by the bidder.	Each	5,000.00	Rates to be quoted by the bidder	-
	Total (Part-B)				-
	Net Price (A-B)				-

110 Watt Luminaire:

Sr. No.	Parameters	Technical and Functional Requirements // LED Street Light Fixture
1	Integrated product	LED streetlight fixtures 110W with Nema 7-pin receptacle and dimmable driver and shorting cap - suitable for existing bracket / pole.
2	IP66	Fixture shall have two separate compartments for the LED modules and the LED Driver, and both compartments should be hermitically sealed to achieve IP66 (or better) ingress protection.
3	Connector	Fixture shall have integrated Nema 7-pin receptacle: ANSI c136.41 compliant - for ease of mounting external Nema intelligent streetlight controller
4	Over-voltage protection	There should be sufficient space inside the fixture to integrate over-voltage protection device (OVP). OVP to be connected between the AC input wires (from the power source) and the Nema receptacle.
5	Material	Fixture shall be made of powder-coated single piece pressure die cast aluminium LM6/ ADC12 material with heat dissipation fins on housing.
6	Lens	Secondary lens on each LED module must be SMD type.
7	UV protection/ Impact rating	Fixture shall use UV stabilized toughened glass/ polycarbonate cover (UV stabilization report submitted for the cover) to withstand IK07 impact rating.
8	Efficacy	The system level luminaire efficacy shall be ≥ 140 lumen/ watt with high power LEDs to be used.
9	DALI based Dimming	LED Driver shall be capable of DALI dimming. Dimming shall be compliant to relevant IEC 62386 standard and must offer Flicker free lighting.

10	Electrical parameters	<p>Input Voltage: 120 to 270 VAC (or better) with high-voltage cut-off at ≥ 270 VAC with auto-reset.</p> <p>Driver should have phase-to-phase protection of 440 V for 4 hours</p> <p>Driver in-built surge protection: ≥ 4 kV</p> <p>Luminaire in-built surge protection: ≥ 10 kV</p> <p>Input Frequency: 50 Hz $\pm 3\%$</p> <p>Power Factor: > 0.95</p> <p>Driver Efficiency: $> 85\%$,</p> <p>THD(I): $< 10\%$</p> <p>Humidity: 10% to 90% RH</p> <p>Working temperature: -5°C to 60°C</p> <p>Driver current: $< 1000\text{mA}$</p> <p>Color Rendering Index: > 70</p> <p>CCT: 5700K +/- 355K</p>
11	Product life-expectancy	<p>Life-expectancy of the overall fixture shall be greater than 50,000 burning hours, tested at maximum current and 105 Deg C with minimum 70% lumen maintained.</p> <p>Street light fixture (including LED Driver and other components) must carry at least 3 years standard hardware warranty post-project handover - for Jaipur climatic conditions. OEM must guarantee product continuity, product spare-parts availability and end-of-life support for at least 3 additional years.</p>
12	Compliance	<p>Street light fixture shall be IS 10322 (Part 5/ Section 3) Compliant and BIS certified.</p>
13	Logo marking	<p>Manufacture's name / logo shall be engraved/ embossed on die-cast housing to allow traceability / authenticity</p>
14	Documentation / Submission	<p>A copy of LM79, LM80 reports, UV stabilization report, IP66, IK07 certificates, product datasheets, warranty commitment must be submitted together with the compliance sheet and proposal.</p>
15	Credibility	<p>Manufacturer (fixture OEM) must have their own in-house NABL lab setup for all testing facilities for LED fixtures.</p>
16	Quality approval	<p>All submissions should be approved by engineer-in-charge. One samples shall be submitted before awarding work order.</p>

Over Voltage Protector:

S. No.	Parameters	Technical and Functional Requirements // Over-Voltage Protection Device
1	Rated voltage	230V AC at 50/ 60 Hz
2	Operational	Operating voltage: 175 - 260V AC (or wider)
3	Cut-off	Over-voltage action cut-off value $>270 \pm 5VAC$
4	Cut-off	Under-voltage action cut-off value $<170 \pm 5VAC$
5	Delay	Cut-off delay time: between 1 and 6 seconds (or shorter)
6	Max. current	Max. current capacity: 40A (or higher)
7	Recovery	Re-start delay post cut-off: 10 seconds

IOT Based Individual light Controller:

S. No.	Parameters	Technical and Functional Requirements // IoT Intelligent Lighting Controller (ILC)
1	Integrated product	Outdoor individual intelligent lighting controller (ILC) must be an integrated product with in-built wireless communication, GPS, lighting control, power-metering, tilt sensor, photocell (optional), antennas and input for external motion sensor
2	Standard Interface	ILC must be equipped with a standardized 7-pin Nema interface (compliant with ANSI c136.41 standard) for ease of mounting with any NEMA compliant street light luminaire.
3	Gateway Free Installation	ILC must connect directly to the internet via local cellular telecom (mobile cell phone) tower, without dependency on any Gateways. Gateway free installation is also to avoid points-of-failures as experienced earlier.
4	Wireless communication	(a.) ILC shall support latest IoT cellular standard such as NB-IoT, LTE CAT M1 and / or LTE CAT 1. It should have a mandatory EGPRS/ EDGE/ GSM fallback in case of network unavailability across Jaipur remote locations, including the neighbouring villages, at an affordable price. Other communication methods (such as Zigbee, LoRa) are not permitted for this application. (b.) OEM supplier should provide total cost of ownership including sim card as well as required data for a period of 3 years post project hand-over. Prices should be an all-inclusive, with no additional monthly data, service and/ or support costs. Hidden costs will not be accepted.
5	Geo-location	ILC must have in-built GNSS module (GPS) to offer automatic geo-positioning, auto-commissioning and accurate astronomical timings for sunrise/ sunset lamp switching. Geo-positioning must also support notification/ alarm in case the streetlight location moves by more than 500m from it's original location (e.g. pole theft situation)
6	Tilt Sensor	OLC must have in-built pole tilt sensor to detect potential fixture or pole damage due to weather deterioration or road accident (pole knock-down situation)
7	Photocell (optional)	ILC must have in-built ambient lighting sensor (photocell) for local lux based switching.

8	Power Metering	ILC must have in-built power-metering circuit to support high accuracy metering, preferably 95% or better
9	Reporting	Each ILC should be able to report all relevant data of the street lighting fixture at least every 15 minutes interval - if requested.
10	Electrical parameters	<p>(a.) Operating voltage: 95 - 270V AC, should be able to operate together with the over-voltage protection device</p> <p>(b.) Electrical protection: Class II</p> <p>(c.) Surge protection: 6kV, 3kA (L-N)</p> <p>(d.) In-built RTC with on-board power backup for at least 3 days</p> <p>(e.) Operating condition: -10° C to +70° C ambient temperature, < 95% Rh non-condensing</p> <p>(f.) Must be certified to work at high temperature temporarily with direct sunlight Tc +85° C</p> <p>(g.) Output power: >400W</p>
11	Controller Housing	<p>(a.) IP66 or higher ingress protection rating, when combined with an equivalent IP66 NEMA streetlight luminaire</p> <p>(b.) Fire resistant (UL94-V0) housing</p> <p>(c.) ILC outer diameter must not exceed the standard 85 mm to meet the elegance requirements of Jaipur</p> <p>(d.) UV exposure and water immersion protection: F1</p>
12	Dimming and Switching Options	<p>ILC must offer following individual lamp switching and dimming options:</p> <p>(a.) Photocell / photo sensor / ambient light sensor (optional),</p> <p>(b.) Astro Clock (astronomical clock),</p> <p>(c.) Time-based scheduled dimming,</p> <p>(d.) Calendar-based schedules,</p> <p>(e.) Adaptive Light-on-Demand (when an external motion sensor is connected),</p> <p>(f.) Emergency Mode through external trigger via LMS,</p> <p>(g.) Maintenance on/ off through External Maintenance App (at no additional costs)</p> <p>(h.) RGBW based color streetlights via DALI (optional)</p>
13	Lighting Control Compatibility	<p>ILC must support the following switching and dimming protocols (LED Driver):</p> <p>(a.) DALI, DALI 2.0 and DALI D4I</p> <p>(b.) DALI DT6 and DALI DT8</p> <p>(c.) 0-10V DC / 1-10V DC</p>

14	QR Code	ILC must be uniquely identifiable through QR code. Provide at least two additional QR code labels, one for placing on the luminaire and other inside the junction box
15	Over-the-air update (OTA)	(a.) It must be possible to OTA update the software/ firmware of the ILC remotely, without local site support in the field, (b.) It must be feasible to OTA update the ILCs within minutes (say, no more than 10 minutes per ILC), (c.) It must be feasible to OTA update multiple ILCs simultaneously
16	Remote Monitoring	ILC must work with the existing LMS and Smart City Operational Centre at Jaipur Development Authority (JDA). It will be the responsibility of OEM supplier to integrate their ILC to JDA Smart City platform at no additional costs.
17	Standard warranty	ILC must carry 3 years standard hardware warranty. OEM must guarantee product continuity, product spare-parts availability and end-of-life support for at least 3 additional years.
18	Certifications & Compliance (product)	JDA places high value on quality. ILC must be tested for at least the following electrical safety standards. (a.) EN 61347-2-11 and EN 61347-1 (or similar) (b.) IEC 55015 (or similar) (c.) EN 61000-3-3 and IEC 61547 (or similar) (d.) IP66 ingress protection (e.) IK09 impact resistant (f.) Class II (g.) RoHS (h.) BIS or CE/ CB certificate from authorized certification agency ILC shall be independently certified by 3rd party. Self-issued certificates are not acceptable.
19	Local Support	(a.) OEM must be headquarter or have a fully operational support local office in India (b.) OEM must provide a fully automated remote ticketing system, including professional RMA handling

20	Submission (Documents, Certification and Samples)	Supplier must provide at least the following documents: (a.) Technical datasheet. (b.) Installation manual. (c.) Certification listed above, including IP, IK certificates from authorized independent certification agencies. Self-testing is not accepted. (d.) Project references / Case Studies / Company or Product Presentation
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70 Watt Luminaire:

S. No.	Parameters	Technical and Functional Requirements // LED Street Light Fixture
1	Integrated product	LED streetlight fixtures 70W with Nema 7-pin receptacle, dimmable driver and shorting cap - suitable for existing bracket / pole.
2	IP66	Fixture shall have two separate compartments for the LED modules and the LED Driver, and both compartments should be hermitically sealed to achieve IP66 ingress protection.
3	Connector	Fixture shall have integrated Nema 7-pin receptacle: ANSI c136.41 compliant - for ease of mounting external Nema intelligent streetlight controller
4	Over-voltage protection	There should be sufficient space inside the fixture to integrate over-voltage protection device (OVP). OVP to be connected between the AC input wires (from the power grid) and the Nema receptacle.
5	Material	Fixture shall be made of powder-coated single piece pressure die cast aluminium LM6/ ADC12 material with heat dissipation fins on housing.
6	Lens	Secondary lens on each LED module must be SMD type.
7	UV protection/ Impact rating	Fixture shall use UV stabilized toughened glass / polycarbonate cover (UV stabilization report submitted for the cover) to withstand IK07 impact rating.
8	Efficacy	The system level luminaire efficacy shall be ≥ 140 lumen/watt with high power LEDs to be used.
9	DALI based Dimming	LED Driver shall be capable of DALI dimming. Dimming shall be compliant to IEC 62386 standard and offer flicker free lighting.

10	Electrical parameters	<p>Input Voltage: 120 to 270 VAC (or better) with high-voltage cut-off at ≥ 270 VAC with auto-reset Driver should have phase-to-phase protection of 440 V for 4 hours Driver in-built surge protection: ≥ 4 kV Luminaire in-built surge protection: ≥ 10 kV Input Frequency: 50 Hz $\pm 3\%$ Power Factor: > 0.95 Driver Efficiency: $> 85\%$, THD(I): $< 10\%$ Humidity: 10% to 90% RH Working temperature: -5°C to 60°C Driver current: $< 1000\text{mA}$ Color Rendering Index: > 70 CCT: 5700K +/- 355K</p>
11	Product life-expectancy	<p>Life-expectancy of the overall fixture shall be greater than 50000 burning hours, tested at maximum current and 105 Deg C with minimum 70% lumen maintained.</p> <p>Street light fixture (including LED Driver and other components) must carry at least 3 years standard hardware warranty post-project handover - for Jaipur climatic conditions. OEM must guarantee product continuity, product spare-parts availability and end-of-life support for at least 3 additional years.</p>
12	Compliance	Street light fixture shall be IS 10322 (Part 5/ Section 3) Compliant and BIS certified.
13	Logo marking	Manufacturer's name / logo shall be engraved/ embossed on die-cast housing to allow traceability / authenticity
14	Documentation / Submission	A copy of LM79, LM80 reports, UV stabilization report, IP66, IK07 certificates, product datasheets, warranty commitment must be submitted together with the compliance sheet and proposal.
15	Credibility	Manufacturer (fixture OEM) must have their own in-house NABL lab setup for all testing facilities for LED fixtures.
16	Quality approval	All submissions should be approved by engineer-in-charge. One samples shall be submitted before awarding work order.

Over Voltage Protector:

Reference is made to the Over-voltage Protector specifications as described in Annex A. Follow the same compliance sheet for this streetlight fixture (Annexure B).

IOT Based Individual light Controller:

Reference is made to the IoT Based Individual Lamp Controller specifications as described in Annexure-A. Follow the same ILC compliance sheet for this streetlight fixture (Annexure-B).

Smart lighting Software application:

S. No.	Parameters	Technical and Functional Requirements // Over-Voltage Protection Device
1	LMS provision & Interoperability	(a.) OEM must provide its own LMS for remote monitoring, management, metering, controlling and configuring of all the ILCs. (b.) Such LMS must have Open API to connect with 3rd party Smart City platforms, Integrated Command & Control Centre, Asset Management Systems and other software systems (e.g. billing). This is a mandatory requirement.
2	Multiple Applications	LMS must be a complete suite of web-based software applications that provides full remote management for both individual controlled and group controlled streetlights
3	Streetlight Grouping	LMS must provide a hierarchical structure for organizing the streetlights across the city in a logical manner, namely Project level, Group level (e.g. east, west, central, etc.), and Organization level (e.g. different System Integrators).
4	ILC visualization	The visualization of the street lighting network need to be based on Google Maps, so that city can relate the street light location in relation to other city infrastructure.
5	Geo-location	LMS must be able to assign street name and address automatically based on the GPS coordinates of the ILC/ street light fixture
6	Light Profiles	LMS must allow for an unlimited number of Light Profiles (also called, Dimming Profiles or Light Scenes) to meet the lighting needs of different streets and areas: (a.) Fixed light level, (b.) Time based scheduling, (c.) Dynamic lighting levels (to support motion sensor based adaptive lighting) (d.) Colour control (using multi-addressable DALI, DT6, DT7 and DT8) based on time schedule or dynamic detection
7	Lamp Switching	LMS must support at least the following modes for lamp-switching: (a.) Based on local light sensor (i.e. ALS inside the ILC) (b.) Astro-clock timer (automatic sunset/ sunrise timer based on geo-location of an ILC)

8	Light Profile Check	LMS must be able to visualize all the set Light Profiles over a period of time (for any specific year/ date/ time) This is to enable the city administration to accurately check the light levels of all streetlights across the city over specific hours of the night, thereby assuring public safety.
9	Emergency Control	(a.) LMS must allow temporary override of all light settings, in case of an emergency or maintenance activities (e.g. switch all streetlight fixtures to 100% light level). (b.) It should be possible to send such an override command via the LMS dashboard as well as a Mobile App
10	Safety	LMS must assure that: (a.) In an unlikely event of any technical failure or network outage, the ILC's must follow their pre-set light profile, (b.) In an emergency situation, all street lights can be turned to 100% safety light level with a single click
11	ILC Reporting	Regular reports generated by ILC (e.g. every 15 minutes) must be visible on LMS. Such reports must contain at least the following parameters: Reporting date/ time, Brightness log (hh:mm:ss) and number of motion sensor triggers (when applicable).
12	Multiple Driver support	LMS must provide interface for selecting different types of ILCs/ Drivers, namely, 0-10V, 1-10V and DALI
13	Energy Monitoring	(a.) LMS must provide an aggregated Energy and CO2 consumption overview in a graphical format for the city administration. (b.) It must be possible to download this information in .csv format
14	Analytics visualization	(a.) LMS must be able to visualize all the analytical data in graphical format. Such graphs must at least include an aggregated overview of the energy used, energy saved, % energy saved, for a specific number of days, weeks or months. (b.) Visualize data such as grid voltage and active power - preferably every 15 minutes (c.) When motion sensors are used within the lighting network, then it must also be possible to visualize the number of triggers per sensor or a group of sensors.

15	Asset Information	<p>(a.) LMS must allow for the recording and storage of basic asset management data, namely Luminaire manufacturer, Manufacturer part number, Lamp wattage, Lamp type, Housing type, Driver information</p> <p>(b.) LMS must also be able to record Street pole ID, any specific name/ ID</p> <p>(c.) There must be a provision to be able to write custom notes for a specific street light fixture/ ILC</p>
16	Alerts/ Notifications	<p>(a.) User must be able to see detailed Alert/ Notification per streetlight fixture. Such Notification must include data such as ILC ID, Error type, Error Message, Error date/ time.</p> <p>(c.) Summary of important notifications must also be available as a daily digest email. City administration must be able to set the number of users who should receive such daily digest emails.</p> <p>(d.) It must also be possible to send the notifications to a Central Command & Control center (Asset Management system) via API</p>
17	User Rights	<p>LMS must offer a dedicated separate application for User Rights Management:</p> <p>(a.) Option to provide access (or revoke access) to specific Projects or Groups to a User</p> <p>(b.) Option to provide different levels of access per User e.g. administrator versus field worker</p> <p>(c.) Option to provide read and/ or write access per User</p> <p>(d.) Option to provide access to specific assets e.g. specific number or type of ILCs</p> <p>(e.) Access to multiple users (with different access control levels) should be available at no additional cost to the city administration. In other words, no additional charges would be paid by the city based for any number of users.</p>
18	Security	<p>(a.) LMS must have end-to-end data security (fully encrypted data communication on all levels)</p> <p>(b.) Supplier must be able to continually upgrade the LMS without affecting the installed lighting network. In other words, LMS must offer backwards compatibility</p> <p>(c.) Supplier would provide such updates to the city at no additional costs to the city</p>

19	Multi Language support	(a.) LMS must be available in English language. It should be possible to add other local languages such as Hindi/ Rajasthani. (b.) LMS must offer In-App guide/ help feature. This is for the User to easily navigate through the LMS.
20	Accessibility	LMS must be accessible from any computer or mobile device through secure access portal. Access must not be limited to a couple of PCs.
21	Hosting Security	(a.) LMS must be available as a Software Service (SaaS) with automatic data backup on a regular basis. (b.) LMS must be hosted in a reliable, secure data centre carrying ISO/ IEC 27001 certification and / or supporting Ministry of Electronics and Information Technology (MeitY) guidelines.

Mobile Applications (APPs):

S. No.	Parameters	Technical and Functional Requirements // Mobile APPs
1	Mobile App 1 (Commissioning)	<p>LMS must provide a compatible Field App for commissioning an ILC:</p> <p>(a.) Such an App should be able to geo-tag and auto-commission an ILC,</p> <p>(b.) Such an App should be available for both Android and iOS systems.</p> <p>(c.) All LMS users should be able to use the App at no additional cost.</p>
2	Mobile App 2 (for Operations Team)	<p>The LMS software suite must include compatible Field Apps for the Operations Team:</p> <p>a.) Such an App should be able to turn all streetlights in a given area surrounding the incident to full 100% brightness. The App should also be accessible for to police/ fire department, if requested at no additional costs.</p> <p>b.) Such field application must support switching and dimming of individual or group of lamps within 200 meters surrounding the location of the User with the App.</p> <p>c.) App must also include a configurable expiration time-setting (for example, 15, 30 or 60 minutes). This is to ensure that after expiration, the selected lamp(s) automatically fall back to their pre-programmed light profile.</p>
3	Mobile App 3 (Event Management)	<p>Event Management App should allow controlling of a certain group of lights by an approved User. For instance, a facility manager can be granted limited access to streetlights around local sports stadium. Likewise, site manager of a area can be granted limited access to specific streetlights within the area.</p>
4	Mobile App 4 (Citizen Mobile App)	<p>Mobile web application for Android / iOS mobile phones to be developed during the project for complaint registration by citizens. This App should work like CRM process flow. That is, from complaint registration to attend till complaint resolution to be done online.</p>

Project Deliverables, Milestones & Time Schedule:

- The Bidder is required to supply, install, test and commission the new infrastructure as mentioned in the Scope of Work within stipulated period from the date of work order placed by JDA.
- Suitable time extension shall be granted by JDA upon submission of such request by the selected bidder with all the relevant documents.
- No penalties/LD shall be applicable when such time extensions are granted due to the reasons not attributable to selected bidder.
- During the implementation phase, all the required permissions shall be arranged by selected bidder. However, JDA shall facilitate such permissions upon request by the selected bidder. Any delays in implementation on account of delay in receipt of permissions shall be excluded from project timelines.
- To expedite the implementation of the new critical infrastructure, all approvals, and signoffs from JDA shall be provided within 10 days of submission of such report, document etc., failing which the respective report/document shall deem to be accepted.

Payments Terms:

S. No.	Milestone	Payment
1	Upon Supply of Material duly supported invoice copy and physical material verification/ Delivery Challan and required necessary test reports.	60%
2	Upon Successful Installation and testing of streetlights (on submission of system generated reports).	30%
3	Upon Successful Commissioning and go live	10%

- FMS (O&M) payment shall be paid on monthly basis.**
- The successful bidder will make the request for payment in writing after completion and fulfilment of service level agreement, accompanied by invoices describing, as appropriate, the supply, and by the required documents submitted pursuant to the contract and upon fulfilment of all the obligations stipulated in the Contract.
- Payment shall be released within 10 days from the date of submission of invoice with the required supporting documents.
- In case of any discrepancy in the invoice, the same shall be communicated by JDA to Bidder within 7 days of Invoice submission.

- v. The currency or currencies in which payments shall be made to the successful bidder under this Contract shall be Indian Rupees (INR) only.
- vi. All remittance charges will be borne by the successful bidder.
- vii. In case of disputed items, only the disputed portion of amount shall be withheld which will be paid after settlement of the dispute. The balance undisputed payment shall be paid within the stipulated timeline of 10 days of invoice submission.
- viii. The penalties shall be calculated on monthly basis and deducted from monthly payments of O&M.
- ix. Labour cess shall be applicable as per government policy on basic contract value except Software and Mobile App.

Service Level Agreement

- a) All the complaints related to non-functioning of smart luminaire should be resolved within 24 hours of complaint registration.

Calculation Criteria	Amount of Penalty
Within 24 hours	No penalty
24-48 hours	Rs. 50 per Luminaire
More than 48 hours	Rs. 100/- per day for per Luminaire.

- b) Software and Mobile App Functionality.

Calculation Criteria	Amount of penalty
Average Uptime 99.5% or above	No penalty
Average Uptime between 98.5%- 99.4%	Rs 10,000/- per day
Average Uptime below 98.4%	15000 per day

- c) The successful bidder shall nominate a O&M manager for this project and he shall remain available on all working days at JDA, and in case of absence a penalty of Rs. 2000/- per day shall be imposed for remaining absent from JDA and which shall be deductible from O&M bill.
- d) Bidder must have own/leased hoist/ crane/lifter for smooth O&M activity of luminaire, ILC, Repair /Replacement. In case of non-availability of the hoist/ crane/lifter, a penalty of Rs. 3000/- shall be imposed on bidder.

Terms & Conditions of Bid & Contract

1. **Contracting:** Under this contract Sub-Contracting is not allowed by the successful bidder(s) for complete project.
2. **Project/Contract Period:** The successful Bidder is expected to carry out all groundwork before starting the services in direction of Nodal Officer of this project. Initially the contract period shall be as per delivery schedule mentioned in the bid document. The contract period can be extended for another period on mutual consent on approved rates as per Act.
3. **Delivery and Start of Services:** The successful Bidder will start the services as per the date mentioned in the Award of Contract (AoC)/ Work Order which will also be treated as the start of project date.
4. **Manpower**
 - a) The successful bidder shall nominate a O&M manager for this project and he shall remain always available on all working days at JDA and in case of absence, penalty of Rs. 2000/- per day shall be imposed for remaining absent from JDA and which shall be deductible from O&M bill.
 - b) The Maximum Penalty during O&M Period shall be limited to monthly Invoice Value of O&M for particular month .
 - c) The professional shall be entitled for Government Holidays. However, on Government Holidays the services may be asked for as per the need without any extra cost.
 - d) If there is a need to replace an existing professional manpower requested by the Nodal officer the bidder will replace the same within 3days.
- e. If the bidder and/or his employees are found to be directly or indirectly involved in any unwanted activities, his services would be terminated. The bidder is responsible for the character of the all employees provided by him.
- f. The legal bidding as per the industries dispute act. Payment of wages act. , contract labour Act., and other as per training to Civil/Criminal legislation, Medical claim if any, are the obligations of the bidder. The JDA would have no responsibility for the same.
- g. It is the responsibility of the bidder to provide payments, and other facilities as per the nominal wages in accordance with the law. All issues pertaining to the same would be dealt with by the bidder. The JDA would have no role in this.

- h. The State insurance, Provident Fund, Pension Gratuity, leaves, wages etc. as applicable, would have to be provided by the bidder and he would also be accountable for the employees. If or any reason, legal proceeding is undertaken against any employee, the bidder shall bear the responsibility. The JDA would not represent the same.
- i. JDA shall not have any liability/pay compensation towards any injury/accident to the firm's employee while carrying out the maintenance/repair work under this contract.
- j. The bidder should also ascertain that as per contract the employees would not from any group/union etc. And would also not participate in such nor represent the same. If such incidence comes under the notice of the JDA, it will terminate the contract.

Locations where Street Lights are to be replaced

Sr. No.	Name of sites of existing installation
1	Khirni Phatak Underpass
2	JP Phatak Underpass
3	Arjun Nagar underpass
4	Kalyan Nagar underpass
5	Transport Nagar Underpass
6	Naradpura JDA scheme
7	RUB on Jaipur Sikar railway line near bridge no. 107 to connect Anand Lok and Swapna Lok JDA scheme
8	Goner Village
9	At entrance road of Goner Village
10	SL on approach road of AHS at village Lalpura Ramla ka baas Kalwar road
11	SL on approach road of AHS at village Prem Nagar Kalwar
12	SL on approach road of AHS at village Bagru Khurd Ajmer road Jaipur
13	SL on approach road of AHS at Shyampura Bhuhariya vatika road jaipur
14	SL on approach road of AHS at 200 feet Muhana Mandi Road ,village Nevta Jaipur
15	SL on approach road of AHS at Narsinghpura, Ajmer Road , jaipur
16	Hathoj to kalwar road
17	Sirsi Road
18	Ajmer Road to Manipal University
19	Rajeev Awas Yojna keero ki dhaani
20	Kalwar road to JDA scheme Hathoj Kardhani
21	Ajmer road to SEZ and internal roads of SEZ
22	12 Mile to vatika
23	Delhi road to labana BSF camp
24	Jaisinghpura Khor
25	Any other roads selected by JDA

Note: These are tentative location for project execution, but JDA reserves the right to add or change the project execution locations in JDA region.

List of Approved Makes:

Luminaire OEM Eligibility Criteria	
Sr. No.	Criteria
1	Street light fixtures shall be Bajaj, Crompton, Philips, Surya, Wipro and Havells make with proven experience, expertise, reliability and local representation.
2	OEM must have in-house NABL accredited photometric lab in manufacturing Unit. Certificate of the same must be enclosed.
3	OEM must enclose factory licence

OEM Eligibility Criteria for Node/ Intelligent Lamp Controller (ILC)	
Supply Make	ILC must be Zumtobel Thorn, Trilux, Tvilight make with proven experience, expertise and reliability and local representation. ILC must be vendor independent and must work with street light fixtures from different suppliers.
Local Support	OEM must be headquartered or have an operational support office in India. OEM shall provide automated ticketing system.
LMS Provision	OEM must provide LMS for remote monitoring, management, metering, controlling, and configuring of all ILC's.



JAIPUR DEVELOPMENT AUTHORITY

Name of Work:- Conversion of existing HPSV & Normal LED lighting System into NB IoT based LED Smart lighting System, which are installed by JDA at various locations beyond the Jaipur Nagar Nigam Jurisdiction /energy bills paid by JDA.

Financial Bid

Executive Engineer (Elect.-I)

JAIPUR DEVELOPMENT AUTHORITY, JAIPUR

SCHEDULE AND SPECIFICATIONS

SCHEDULE - A: INFORMATION USEFUL FOR THE CONTRACTORS:

The bidder should see the site and fully understand the conditions of the site before bidding and include all leads, lift etc for the material in his item rate/percentage to be quoted on the rates given in Schedule 'G'. The work shall be carried out in accordance with the Rajasthan PWD detailed specification and to the entire satisfaction of the Engineer - In - Charge of the work.

SCHEDULE - B: LIST OF THE DRAWING TO BE SUPPLIED BY THE DEPARTMENT

The drawing may be seen in the office of the undersigned.

SCHEDULE - C: LIST OF THE DRAWING TO BE SUPPLIED BY THE CONTRACTOR:

List of the drawing to be supplied by the contractor NIL. But the contractor shall have to arrange at his own cost drawings required for the work after deposition necessary cost with JDA.

SCHEDULE - D: TEST OF THE MATERIALS:

The test of the materials and workmanship shall be conducted by the JDA staff as necessary. The result of such tests should confirm to the standards laid down in the Indian standard & or the standards laid down in the detailed specifications of the work by the contractor. Qualified personnel required as per the contractor enlistment rules shall have to be engaged at site by the Contractor. The authority reserves the right to engage such staff and recover the expenses from the contractor on such account in case of his failure to do so.

SCHEDULE - E: SAMPLES OF THE MATERIALS:

The sample of the materials to be used by the contractor shall be deposited 15 days in advance with the Engineer In charge and be got approved by him before use.

SCHEDULE - F: TIME OF COMPLETION:

The work should start within 10 days of the issue of the work order and complete within time limits.

SCHEDULE - G: ATTACHED SEPARATELY BASED ON APPLICABLE BSRs IN JDA.

SCHEDULE - H: SPECIAL CONDITION: Attached Separately.

SCHEDULE - I: COST OF TENDER DOCUMENTS, PROCESSING FEES & BID SECURITY.

The Bid Processing fee is payable in favor of M.D. RISL & Cost of bid document & Bid Security is payable in Favour of the Secretary, JDA, Jaipur. Bidders have to pay bid processing fees, cost of bidding documents, and Bid Security through Online. **If a bidder opts to deposit the bid security through bank guarantee, the bank guarantee should be valid for the next seven months after the bid opening date. A copy of the such bank guarantee will be required to be attached with the bid submission documents uploaded on the E-procurement portal of GOR. The bank guarantee will be physically handed over upto prescribed time to Nodal officer of the on-line tendering system of JDA i.e. D.D(E&B) in room No. 215N Extension building, JDA, JLN marg, Jaipur, as per specified in bidding documents,**

Executive Engineer-(Elect.-I)
JDA, Jaipur

SPECIAL CONDITION FOR POST ASSESSMENT

Note: - Joint Venture/Consortium will not be allowed.

1. The financial bid shall be opened only of those successful Bidders who qualify the technical Bid criteria.

Documents to be submitted with financial bid are as follows:

Percentage Rates on G-Schedule both in figures and in words duly filled in.

The financial bid will be evaluated on the basis of basic rates of the System (SITC of the Job).

On bid scrutiny, if differences are found in rates given by the bidder in words and figures in individual rates or in sub-total or in grand totals the procedure for deriving the final value shall be as follows:

Before submission of the bids, the bidders are advised to visit the site and get acquainted with site conditions, availability of materials & labour. All clarifications must be sought by the bidders well in time and no extension of time shall be given on this account.

The bidders are advised to account for any fluctuations in market rates of material, equipment cost, labour rates etc. Any claim on these accounts shall not be entertained after the award of work unless specifically agreed to.

Bids not submitted on prescribed form are liable to be rejected.

Bidders are advised to quote original offer as per bill of quantities.

In case drawing and details are not enclosed with bid documents, these can be seen in the office of the department during office hours. Failure to avail of this shall not relieve the bidder of his responsibility of correct interpretation of work involved. Bidders who resort to canvassing in any form shall be liable to rejection.

Printed Conditions of contract: Any printed conditions and conditions contrary to these conditions of contract in contractors offer shall be excluded from the contract and not applicable to this contract.

The bid shall be valid for acceptance for a period of four months from the date of submission of the bid.

2. EXECUTION DRAWINGS

The successful bidder shall have to submit execution drawing to the department within a total period of 1 week from the date of issue of work order for approval by the department

3. TERMS OF PAYMENTS

As given in general Condition of contract in the approved standard agreement amended up to date.

No escalation charges shall be payable to the contractor over and above the rates as agreed to by the department in the detailed bill of quantities.

No advance shall be payable to the contractor.

The department does not bind themselves to accept the lowest or any bid and reserves the right to accept or reject any or all the bids in whole or in part without assigning any reasons for doing so.

The contractor must acquaint, acquire themselves with the site conditions, means to access the work, local conditions and all matters pertaining there to shall be the contractors, responsibility to obtain all necessary information required for quoting the above bid and for entering into a contract. The detailed drawing and specifications available with the documents must be studied and examined carefully by the bidder before submitting their offers.

The successful bidder shall sign the agreement on non judicial stamp paper of requisite value within 10 day from the issue of work order. If the contractor selected fails to sign the agreement within ten days of the issue of work order his bid security shall be forfeited.

The following documents shall form part of the contract agreement:
Invitation to bid.

All sections of financial and technical bid, contract (agreement), Bill of Quantities & drawings.

All correspondence between the successful bidder and the department. Any other documents necessary for completion of contract agreement.

The rates quoted in the bid shall include all charges for scaffolding, water, electricity charges, hiring charges for any tools/ equipments etc. required for completion of jobs. The rates shall be inclusive of excise duty, sales tax, octroi duty or any other duties or fees levies by Government or by public or local bodies from time to time.

Necessary documents for import shall be done by the contractor under his own arrangements for equipments of foreign origin. Proof of legal imports! Purchase from manufacturer should be submitted at the time of supply, failing which the award may be terminated.

The works contract price quoted shall remain firm till completion of job and handing over the same in working condition to the department. The price should not be subject to exchange rate variations. No foreign exchange and license shall be arranged by Clint and it shall be contractor's responsibility to do so, if required.

It shall be contractor's responsibility to check and ascertain the correct quantities and only these assessed quantities in accordance with the requirement and as per the tentative schedule of work after approval of the Engineer-in-charge shall be brought at site after award of work order.

The contractor shall carry out additional/Reduce work or supply material/ equipments at the same quoted rates up to any increased or decreased quantities specified in detailed bill of quantities. The department shall also be at liberty to ask the contractor to supply, erect and commission rates within four months of stipulated date of commencement of the work order without any price variation.

4 BAR CHART & CASH FLOW CHART

The contractor shall prepare & submit a bar chart & cash flow chart in consultation with the department and shall strictly adhere to the same. The progress and the completion of the work shall be in accordance of the bar chart will form part of this contract agreement. The said schedule of work/ bar-chart will be subject to general conditions of contract related to the extension of time. A weekly progress of site shall be submitted in writing to the department.

5 PERFORMANCE BOUND CONTRACT

The contract shall be a performance bound contract and therefore the contractor shall makes his independent checks for Mounting, selection of equipment, etc. The drawings enclosed with the bid documents are only tentative and for guidance for bidding purposes. The details or execution drawings shall be prepared and submitted for approval to the department by the successful contractor to suit the requirement pertaining to site conditions.

6 TRAINING OF PERSONNEL

The contractor shall impart training to the departmental staff free of cost during erection and commissioning of the plant

7 GUARNTEE

The contractor shall guarantee the complete system & equipments for a period of 12 months from the date of satisfactory handing over of the plant as certified by the department for fault/ bad workmanship, manufacturing defects in equipments etc. The Bidder shall guarantee the System to maintain the sound quality on the basis of Design/ Scheme. They shall also guarantee that the performance of the various equipments individually and jointly and shall not be less than the specified rating when working under operating conditions for the complete installation. The commissioning of system shall be done by the contractor and all tests at site shall be conducted to confirm the bided specification should be submitted to the department for record.

9 REPAIR/ REPLACEMENT OF PARTS DURING GUARENTEE

Any defects or other faults which may appear within defect liability/guarantee period of twelve months from the date of handing over the system in a satisfactory working conditions to the department arising in the system due to material or workmanship should be corrected and replace with parts of original specifications and makes by the contractor at his own cost.

10 Security deposit will be returned to the contractor after 12 month from the date of finalization of work and successful operation of the system as judged by the department.

11 POWER SUPPLY FOR ERECTION PURPOSES

The contractor shall make his own necessary arrangements for power supply required for erection purposes by applying to JVVNL for a separate connection at his own cost or through his own DG set.

- 12 The contractor shall have to submit original voucher/ bills of various items to be used in execution of work.
- 13 The Octagonal Poles will be dispatch after issuance of certificate from JDA Engineer that the material is fit for dispatch, even after receiving the ornamental poles at site JDA reserve the right to send the material to any Govt. / Semi Govt. / Private lab for testing and if the pole is not found as per specification, the bidder will require to replace the complete material at his own cost.
- 14 All the materials to be used for electrification work must be inspected by Engineer-in-charge or any nominated Engineer of J.D.A. at Factory/ Laboratory before dispatch to the site at the cost of contractor. The contractor shall have to inform seven days in advance for the inspection.

**Signature & Seal of
Contractor/Bidder**

**Executive Engineer (Elect-I)
JDA, Jaipur**

SPECIAL CONDITIONS

SCHEDULE 'H'

01. If there is any typographical error or otherwise in the 'G' Schedule, the rates given in the relevant BSR on which Schedule 'G' has been prepared, shall prevail.
02. The bidder shall follow the provisions of the builder labour regulation and abolition Act, 1970 & Rule, 1971.
03. The JDA shall have the right to cause an audit for technical examination of the work and the final bills of the bidder including all supporting vouchers, abstracts etc. to be made within two years after payment of the final bills and if as a result of such audit, any amount is found to have been overpaid / excess in respect of any work done by the bidder under the contract or any work claimed by him to have been done under this contract and found not to have been executed, the bidder shall be liable to refund such amount and it shall be lawful for the JDA to recover the such sum from him in the manner prescribed in special condition no. 8 or any other manner legally permissible and if it is found that the bidder was paid less than that was due to him under the contract in respect of work executed by him under it, the amount of such underpayment shall be paid by the JDA to the bidder.
04. Wherever any claim against the bidder for the payment of a sum of money arises out of under the contracts, the JDA shall be entitled to recover the sum by appropriating in part or whole of the performance security of the bidder, In the event of the security being insufficient or if no security has been taken from the bidder then the balance of the total sum recoverable as the case may be deducted from any sum then due or which at any time their contract with the JDA should this sum be sufficient to recover the full amount recoverable. The bidder shall pay to JDA on demand the balance remaining due. The JDA shall further have the right to affect such recoveries under P.D.R. Act.
05. The rate quoted by the bidder shall remain valid for a period of 120 days from the date of opening of the bids.
06. By submission of the Bid the bidder agrees to abide by all printed conditions provided in the PWD manual from 64 (Chapter 3-para 36) and subsequent modification.
07. No conditions are to be added by the bidder and the conditional Bid is liable to be rejected.
08. If any bidder withdraws his Bid prior to the expiry of said validity period given at S. No. 5 or mutually extended prior or makes modifications in the rate, terms and conditions of the Bid within the said period which are not acceptable to the authority or fails to commence the work in the specified period, fails to execute the agreement the authority shall without prejudice to any, other right or remedy, be at liberty to forfeit the amount of bid security given in any form absolutely. If any bidder, who has submitted a Bid does not execute the agreement or start the work or does not complete the work and the work has to be put to rebidding he will stand debarred for six months from participating of Biding in JDA in addition to forfeiture of bid security/ Performance Security and other action under agreement
09. Any material not conforming to the specifications collected at the site have to be removed by the bidder within a period of 3 days of the instruction, issued by the Engineer -In charge in writing failing which, such material shall be removed by the Engineer-In charge at risk and cost of the bidder after the expiry of 3 days period.
10. The material collected at the site and paid provisionally shall remain under the watch and ward of the bidder till it is consumed fully on the work.

11. The rates provided in the Bidding documents are inclusive of all Taxes and royalties otherwise specified.
12. No extra lead of earth/material shall be paid over and above as specified in 'G' Schedule, Source/ borrow pit area for the earth shall have to be arranged by the Bidder at his own cost.
13. Undersigned has full right to reject any or all Bids without giving any reasons.
14. As per the Supreme Court decision "All contracts with Governments shall require registration of workers under the building and other construction workers (Regulation of Employment and Conditions of Service) Act, 1996 and extension of benefits to such workers under the etc."
15. Special Conditions of the Contract regarding the Defect Liability Period (DLP) for works costing Rs. 25.00 lacs and more shall be applicable (Annexure-I).
16. The Bidder is required to submit a copy of their enlistment as a contractor.
17. Conditions of RPWA-100 will be mandatory & acceptable to the bidder.
18. The bidder will have to install display boards at the site of work as directed by Engineer in charge.
19. All the provisions of THE RAJASTHAN TRANSPARENCY IN PUBLIC PROCUREMENT ACT, 2012 and Rules, 2013 and amendments issued from time to time by the Finance Department, GOR shall be applicable. If there are any contradictions in existing special conditions and provisions of THE RAJASTHAN TRANSPARENCY IN PUBLIC PROCUREMENT ACT, 2012 and Rules 2013 provisions of THE RAJASTHAN TRANSPARENCY IN PUBLIC PROCUREMENT ACT, 2012 and Rules 2013 shall prevail.
20. In case the rate received in the bid is below than BSR rate, additional Performance security shall be deposited by the bidder as per Rule 75 (A) of RTPP Rules.
21. The Annexure "B" (RTPP Act/Rules) is mandatory to be fulfilled & signed with seal by the bidder failing which the bid shall summarily be rejected without asking for any clarification.
22. Contractors enlisted in JDA, should be get reviewed periodically. The registered bidder who has not been reviewed within a period of 5 years 3 months, shall not be allowed to participate in the bid. Contractors enlisted in other departments shall be as per the provision of PWF&AR

SIGNATURE OF CONTRACTOR
WITH FULL ADDRESS:

EXECUTIVE ENGINEER (ELECT.-I)
JDA, JAIPUR

JAIPUR DEVELOPMENT AUTHORITY, JAIPUR

Special Terms & Conditions for Electrification work.

The Contractor has to give the performance guarantee of the following materials for the period mentioned against them from the date of completion of work:

(a)	Transformers	30 Months
(b)	All types of Insulators	18 Months
(c)	ACSR Conductors	6 Months
(d)	Isolators	6 Months
(e)	Horn gap fuse set	6 Months
(f)	LT Pillar Box	6 Months
(g)	All types of HT/LT cables	18 Months

1. DLP period for various type of above works will now be governed by Director (Engineering-I) office order no. 29 dated 11.03.2016 (Copy Enclosed named by DLP period)
2. The Contractor has to arrange for the permission for the charging of electrical system from the Electrical Inspector Govt. of Rajasthan. He will have to deposit the necessary fees, which shall be reimbursed by Jaipur Development Authority.
3. The contractor has to arrange the test i.e. UL test for LED lights, CTL test for cables/wire, Pole testing and other test are required by engineer in-charge and sampling of material. He will have to deposit the necessary fees, which shall be reimbursed by JDA.
4. The contractor will coordinate for the system handing over and charging process and if any defects, is pointed out by the RSEB/JVVNL/PWD/JNN, then he will have to rectify the same.
5. The final bill shall be paid after the lines and substations are handed over to RSEB/JVVNL/PWD/JNN and system is charged.
6. Inspection shall be bear by the contractor itself.
7. The material shall be purchased from the firms, which are also supplying the material to RSEB/JVVNL.
8. All HT/LT cables should be sequentially marked with cable size & length duly embossed.
9. The contractor shall return unused material issued to him by the deptt. If desired by the Engineer in-charge and in case, of failure to do so he shall be charged for such unreturned material at double the issue rate including storage and supervision charges or the market rate whichever is higher. The basis of the theoretical consumption and allowing for wastage @ 5% at double the issue rate including storage and supervision charges or market rate whichever is higher.
10. **The contractor shall be fully responsible to follow safety code as per IS 3764:1992 (upto date). The work should be executed without damaging existing water pipe line, LT/HT electric underground cable, poles, existing surface drain, water connections, Telephone cables etc. In case of any damages the penalty/ liability imposed for such work shall be borne by the contractor and shall be got repaired immediately by arranging material/ labor/ assistance etc. In case of delay JDA reserve right to execute/ get executed the work at the cost and risk of the contractor.**
11. It is a mandatory condition that contractor will get all insulated material tested from CTL of JVVNL before using it at site.

**Executive Engineer (Elect.-I)
JDA, Jaipur**

I carefully study & do agree for above terms & Conditions.

Signature & Seal of the Contractor

INSPECTION AND TESTING AT MANUFACTURER'S PREMISES

1. The test of the material and workmanship shall be conducted by the JDA/JVVNL Engineers as necessary. The result of such tests should confirm to be standard laid down in the Indian standards and or the standards laid down in the detailed specification of the JVVNL/ .Public Works.
2. Proper quality control is required to be maintained by the contractor. Qualified personnel's having a degree in engineering or as required under the contractor enlistments rules duly approved by the Deptt. Shall have to be engaged at site by the contractor. The Deptt. Reserves the right to engage such staff and recover the expenses from the contractor on such account in case of his failure to do so.
3. The GTP of the material to be used be used by the contractor shall be submitted 21 days in advance with the Engineer In charge and be got approved by him before use.
4. All inspection and testing shall be carried out in accordance with the Specification and in absence of Specification relevant Indian Standard or internationally approved equivalent standard. After award of contract, Bidder shall furnish QA plan which will be mutually discussed with the Owner and finalized QA plan shall include test and incoming supply of raw materials and bought out items, stage inspections and tests on finished products at manufacturer's works / appropriate testing station. QA plan shall clearly indicate tests which are intended to be witnessed by the Bidder alone and those by both Bidder and Owner.
5. The Contractor shall carry out wherever practical, at the place of manufacture tests of the Plant / Equipment.
6. The Owner shall be entitled to attend the aforesaid inspection and / or tests by his own duly authorized and designated representatives.
7. The Owner and his duly authorized representative shall have access to the Contractor's premises at all suitable times to inspect and examine the material and workmanship of the mechanical and electrical plant and equipment during its manufacture there. If part of the plant and equipment is being manufactured on other premises, the Contractor shall obtain permission for the Owner or his duly authorized representative, to inspect as if the plant and equipment was manufactured on the Contractors own premises. Testing (including testing for chemical analysis and physical properties) shall be carried out by the Contractor and certificates submitted to the Owner who will have the right to witness or inspect the above mentioned inspection / testing at any stage desired by him. Where inspection or testing is to be carried out at a subcontractor's works, a representative of the Contractor shall be present.
8. The procedure for the testing and inspection to be carried out during or following the manufacture of the materials to ensure the quality and workmanship of the materials and to further ensure that they conform to the Contract is whatever place they are specified shall be as described below.
 - (a) The Contractor shall give the Owner at least 21 clear days notice in writing of the date and the place at which any plant or equipment will be ready for inspection/ testing as provided in the Contract. The Owner or his duly authorized representative shall thereupon at his discretion notify the Contractor of his intention either to release such part of the plant and equipment upon receipt of works test certificates or of his intention to inspect. The Owner shall then give notice in writing to the Contractor, and attend at the place so named the said plant and equipment which will be ready for inspection and/or testing. As and when any plant shall have passed the tests referred to in this section, the Owner shall issue to the Contractor a notification to that effect.
 - (b) The Contractor shall forward to the Owner duly certified copies of the test certificates and characteristics performance curves for all equipment.

- (c) If the Owner fails to attend the inspection and/or test, or if it is agreed between the parties that the Owner shall not do so, then the Contractor may proceed with the inspection and/or test in the absence of the Owner and provide the Owner with a certified report of the results thereof as per (b) above.
- (d) If any materials or any part of the works fails to pass any inspection / test, the Contractor shall either rectify or replace such materials or part of the works and shall repeat the inspection and/or test upon giving a notice as per (a) above. Any fault or shortcoming found during any inspection or test shall be rectified to the satisfaction of the Owner before proceeding with further inspection.
- (e) Where the plant and equipment is a composite unit of several individual pieces manufactured in different places, it shall be assembled and tested as one complete working unit, at the maker's works or at site as mutually agreed by the Owner and Contractor.
- (f) Neither the execution of a inspection test of materials or any part of the works, nor the attendance by the Owner, nor the issue of any test certificate pursuant to (c) above shall release the Contractor from any other responsibilities under the Contract.
- (g) The test equipment, meters, instruments etc., used for testing shall be calibrated at recognized test laboratories at regular intervals and valid certificates shall be made available to the Owner's at the time of testing. The calibrating instrument used as standards shall be traceable to National/International standards. Calibration certificates or test instruments shall be produced from a recognized Laboratory for the Owner's consent in advance of testing and if necessary instruments shall be recalibrated or substituted before the commencement of the test.
- (h) Items of plant or control systems not covered by standards shall be tested in accordance with the details and program agreed between the Owner and Contractor.
- (i) Tests shall also be carried out such that due consideration is given to the Site conditions under which the equipment is required to function. The test certificates shall give all details of such tests.
- (j) The Contractor shall establish and submit a detailed procedure for the Inspection of materials or any part of the works to the Owner for approval within the date indicated in the Programme Details. The detailed procedure shall indicate or specify, without limitation, the following:
 - (i) Applicable code, standard and regulations
 - (ii) Fabrication sequence flow chart indicating tests and inspection points
 - (iii) Detailed tests and inspection method, indicating tests and inspection points
 - (iv) All routine tests shall be carried out as per relevant Indian Standard specifications and will be witnessed by the Owner,
 - (v) Acceptance criteria
 - (vi) Test report forms and required code certificates and data records
 - (vii) Method of sampling, if any sampling test to be conducted
 - (viii) Contractor's or Owners witness points.
- (k) The Contractor shall not pack for shipment any part of the Plant until he has obtained from the Owner or his authorized representative his written approval to the release of such part for shipment after any tests required by the Contract have been completed to the Owner's satisfaction.
- (l) The contractor shall be liable to bear all the expenses to carry out the inspection at the manufacture works.

Signature of Contractor/Bidder

**Executive Engineer (Elect-I)
JDA, Jaipur**

MINIMUM SAFETY RULES

The following are Minimum Safety Rules that apply to all contractors and subcontractors associated with this project. All project personnel have a duty and responsibility to ensure familiarization with project safety requirements and to comply with all requirements established by their employer.

1. **REPORTING HAZARDS:** It is part of each employee's job to report all unsafe conditions/practices to his immediate supervisor for corrective action.
2. **BASIC PERSONAL PROTECTION** for this project includes:
 - a) Safety Hats of the approved type which meet Indian Standard shall be worn while on construction sites (hats shall not be Pressed or altered in any way as to make them defective). Hard hats shall be worn the way they are intended to be worn. Metal hard hats are prohibited.
 - b) Industrial grade safety glasses with side shields meeting ANSI standards Z-87 or equivalent Indian Standards will be worn by all personnel. This also applies to all persons wearing prescription glasses. Additional eye protection may be necessary for various work activities such as grinding, chipping, drilling, chemical handling, etc.
 - c) Hearing protection will be worn at posted high-noise areas or work activities generating high-noise levels.
 - d) Shirts are required when working on a construction site. All shirts will have sleeves. Sleeveless shirts are not permitted.
 - e) Full length trousers are required and must fit properly. Loosely fitting clothing will not be worn.
 - f) Safety shoes or safety boots will be worn in the construction area at all times. No sneakers, open-toed shoes or tennis shoes are allowed. All shoes will be suitable to the construction environment.
 - g) Gloves will be worn when handling materials that may cut, tear or burn hands. Gloves will be in good condition and free of excessive oil or grime.
3. **RESPIRATORS:** Persons engaged in work activities requiring breathing apparatus or respirators will be test-fitted to ensure a proper seal and fitting.
4. **FALL PROTECTION:** Safety Belts/Harnesses shall be worn and used when working at two meter heights (or greater), where approved platforms, ladders, or scaffolds are not provided. Lanyards will be no more than six feet in length. Horizontal or vertical lifelines will be provided and used where no tie-off points are provided. Belts/Harnesses shall be worn properly. All fall protection equipment will be inspected for defects by the user before each use. Defective or questionable protection equipments shall not be used.

5. **INJURIES:** All persons must report all injuries to their supervisors and obtain first aid (regardless of degree of severity) at the contractor's first aid facility. Each accident must be documented on the Accident Notification Report.
6. **SMOKING:** Smoking within an establish NO SMOKING AREA is strictly prohibited and is sufficient cause for immediate removal of the person found smoking from the site.
7. **ELECTRICAL EQUIPMENT :** Personnel (except electricians), assigned to work on or around specific electrical jobs, will stay clear of all electrical equipment until it is proven safe by qualified electrical personnel.
8. **UNAUTHORIZED USE:** The unauthorized operation of any tool, equipment, switch, vehicles, valves, etc. is strictly prohibited.
9. **MAKESHIFT DEVICES:** Personnel will not fabricate or use makeshift devices such as lifting devices, tools, etc. Specialized tools/equipment are often necessary, but will be properly designed and tested by authorized engineering personnel before use. The modification of tools/equipment or the overriding of safety devices will not be tolerated.
10. **TRUCK RIDING:** Riding in the bed of trucks is prohibited unless seating arrangements conform to client requirements. Personnel are forbidden to ride on loaded trucks, fenders, running boards, sideboards, tailgates, etc.
11. **SEAT BELTS:** All personnel riding in vehicles will fasten seat belts before the vehicle is placed in motion.
12. **HORSEPLAY:** Running, practical jokes, etc. prohibited. Fighting is sufficient cause for immediate dismissal. "Short cutting" of established safe practices or deliberate chance-taking is strictly prohibited.
13. **WORK PERMITS:** If work to be carried out requires a permit, the permit must be obtained before work commences.
14. **EMERGENCY PROCEDURES:** It is part of everyone's job to thoroughly know plant emergency procedures, emergency alarms, location of assembly areas, etc.
15. **WORKING POSITION:** Personnel must always ensure safe working positions. Any person to position himself between a fixed object and a moving piece of equipment is extremely hazardous. Never place yourself between objects which could roll, shift, fall or be displaced. Stay alert to conditions around you at all times.
16. **SAFE & PRESCRIBED METHODS:** All tools and equipment, including motor vehicles will be operated in a safe and prescribed manner at all times. If any person is not sure of the proper method of tool/equipment use, he must immediately inform his supervisor for the person to receive proper direction.
17. **INSTRUCTIONS FROM SUPERVISORS:** Supervisors are responsible for strict compliance and enforcement of project and client safety rules and regulations, and to

ensure that workers are made knowledgeable of requirements. All personnel are required to follow instructions from their immediate supervisors. If instructions are not clear or are confusing, the employee has a responsibility to question the supervisor and obtain clear instructions before commencement of work.

18. **CO-OPERATION AND TEAMWORK:** It takes co-operation and teamwork to complete construction projects in a safe, efficient and timely manner. All project personnel are expected to render complete co-operation in the administration and enforcement of the project Safety Program.
19. **CAMERAS:** Employees must not, under any circumstances, bring cameras onto the work site or use a camera on the work site without written approval of Engineer-In-Charge.
20. **DRUGS/ALCOHOL:** The use of illegal drugs and alcohol is strictly prohibited and is cause for immediate removal of the person who is found to be under influence of such drugs / alcohol from the site.
21. **DISCIPLINARY ACTION:** Disciplinary action will be taken against persons violating the stipulations. Serious infractions and/or repeat offenders will be dealt with severely, up to and including permanent removal from the project.
22. **RESPONSIBILITIES;** All persons have a responsibility to themselves and their co-workers to be physically fit and mentally alert at all times. Conditions on a construction site are always in a state of change. Personnel must be able to react accordingly.
23. **LADDERS AND SCAFFOLDS:** All ladders and scaffolding shall be of the approved type. Ladders and scaffolding not meeting standards shall be removed from service. Ladders and scaffolding shall meet Indian Safety Standards or British Standards whichever is more stringent.

LADDERS:

- a) Ladders shall be inspected prior to use. Defective ladders shall be removed from service.
- b) Ladders used near energized lines or equipment shall be made of non- conductive materials (wood, fiberglass, etc.)
- c) Ladders shall be placed on solid footing. They shall not be placed on unstable objects such as loose bricks.
- d) Employees shall not carry tools, materials, or objects while climbing ladders. Employees shall face the ladder while climbing and avoid leaning from side to side and away from the ladder.
- e) Employees working from ladders shall wear and utilize proper fall protection equipment.

- f) Straight and extension ladders must be secured at the top when in use. Ladders not in use should be removed from the vertical position.
- g) Ladders must be placed at an angle not to exceed one foot of run for every four feet of rise.
- h) Ladders must extend above their upper support or landing by at least 3 feet.
- i) Step ladders must be secured or held when in use.
- j) Employees shall not work from the top step or next to the top step of step ladders.

SCAFFOLDS:

- a) Employees shall not erect, alter or dismantle scaffolds unless directed by a competent person.
- b) Scaffolds shall be erected, should be in plumb, and on sound foundation. Loose bricks, unstable stacks of lumber, etc. shall not be used to level or support scaffolds.
- c) Scaffold materials shall be free of defects.
- d) Work platforms shall be completely decked. (The decking should overhang its end supports at least 6 inches but not more than 12 inches. The decking shall be secured in place).
- e) Work platforms shall be equipped with standard handrails, midrails, and toe boards when 2 meters or more in height.

24. EXCAVATIONS:

- a) When deeper than 5 feet, excavations shall be sloped or shored to prevent caving-in.
- b) Excavations must be barricaded and barricades shall be maintained till back filling is completed.
- c) Excavated earth and any equipment shall be kept at least 2 feet from the edge of excavations.
- d) Access ladders shall be placed within a distance of 25 feet of location of working in excavations of 4 feet deep or deeper.

25. CONFINED SPACE OR VESSEL ENTRY:

- a) Employees shall not enter any confined space unless it has been tested for oxygen contents, absence of flammable gases and/or substances, or any other hazardous materials, and a written permission has been issued.
- b) A man *way* watch trained in his duties shall be present at any time when personnel are inside confined spaces or vessels.
- c) Portable or hand-held lighting should not exceed 12 volts power source.
- d) Positive ventilation (air movers or fans) shall be used to provide exchange of fresh air in confined spaces and vessels.

26. TAG-OUT, LOCK-OUT PROCEDURES:

- a) Employees shall not perform any work including repair, changes, attachments on electrical circuits, equipment, or mechanical equipment unless the power supply or source of said equipment is positively disconnected or shut off and the concerned electrical department employee places his lock and tag on the disconnect.
- b) Only electrical personnel shall be involved in energizing & de-energizing electrical circuits and equipment.

Signature of Contractor/Bidder

**Executive Engineer (Elect-I)
JDA, Jaipur**

ERECTION, TESTING AND COMMISSIONING

1. ERECTION - GENERAL

- 1.1 The Contractor's staff shall include adequate and competent erection Engineer with proven, suitable, previous experience on similar contracts to supervise the erection of the Works and sufficient skilled, semi-skilled and unskilled labour to ensure completion of Works in time. The Contractor shall not remove any representative, erector or skilled labour from the Site without prior approval of the Owner.
- 1.2 The Contractor shall ensure that no installation or erection work shall commence until full and unconditionally approved working drawings, signed and stamped by the Owner are available at Site.
- 1.3 The Contractor's erection staff shall arrive on the Site on dates to be agreed by the Owner. Before they proceed to the Site, however, the Contractor shall first satisfy himself, as necessary, that sufficient Electrical System of his (or his sub-contractor's) supply has arrived on Site so that there will be no delay on this account.
- 1.4 One erection engineer who shall be required to be the Contractor's representative shall be conversant with the erection and commissioning of the complete Works. Should there be more than one erector, one shall be in charge and the Contractor shall inform the Owner in writing which erector is designated as his representative and is in charge. Erection engineer is to report to Project Manager.
- 1.5 The Contractor shall be responsible for setting up and erecting the Electrical System to the line and levels of reference and of the positions, levels dimensions and alignment, appliances and labour in connection therewith. The checking of setting out of any line or level by the Owner shall not in any way relieve the Contractor of his responsibility for the correctness thereof.
- 1.6 Erection of Electrical System shall be phased in such a manner so as not to obstruct the work being done by other contractors or operating staff who may be present at the time. Before commencing any erection work, the Contractor shall check the dimension of structures where the various items of Electrical Systems are to be installed and shall bring any deviations from the required position, lines or dimensions to the notice of the Owner. Electrical System shall be erected in a neat and workmanlike manner on the foundations and at the locations shown on the approved drawings. Unless otherwise directed by the Owner, the Contractor shall adhere strictly to the aforesaid approved drawings. If any damage is caused by the Contractor during the course of erection to new or existing Electrical System or buildings or any part thereof, the Contractor shall, at no additional cost to the Owner, make good, repair or replace the damage, promptly and effectively as directed by the Owner and to the Owners satisfaction.

- 1.7 The Contractor shall align all equipment and holding down bolts and shall inform the Owner before proceeding with grouting-in. the items concerned. The Contractor shall ensure that all equipment is securely held and remains in correct alignment before, during and after grouting-in.
- 1.8 The approval by the Owner of the Contractors proposals for rigging and hoisting any items of the Electrical System into final positions shall not relieve the Contractor from his responsibility for damage to completed structures, parts or members thereof or other installed equipment. He shall at his own cost make good, repair or replace any damaged or injured items, whether structural, electrical, architectural, or of any other description, promptly and effectively to the satisfaction of the Owner.
- 1.9 No Electrical Systems or other loads shall be moved across the floors of structures without first covering the floors with timber of sufficient size so that applied loads will be transferred to floor beams and girders of steel or concrete. If it is required to reduce bending stresses and deflection, the beams and girders shall be provided with temporary supports. Any movement of Electrical System and other loads over the floor structures shall be subjected to the prior approval of the Owner.
- 1.10 During erection of the Electrical System, the Owner will inspect the installation from time to time in the presence of the Contractor's Site representative to establish conformity with the requirements of the Specification. Any deviations and deficiencies found or evidence of unsatisfactory workmanship shall be corrected as instructed by the Owner.

2 LEVELING AND GROUTING OF MACHINERY

- 2.1 Contractor shall check the civil works, where the Electrical System is to be installed sufficiently in advance, for their conformity to the approved drawings for installing the Electrical System with respect to lines, levels and accuracies of positions embedment, anchorage pockets, cut-outs etc. He shall record all measurements and deviations in prescribed control formats. He shall proceed with the work, with the Owners consent to such preparatory inspection of works.
- 2.2 Contractor shall mark precisely the centre lines and datum reference on the civil works, where the Electrical System is to be installed with reference to bench marks, using indelible means of marking.
- 2.3 He shall undertake sufficiently in advance chipping of any unevenness of concrete on foundations, anchor bolt pockets, cut-outs etc., to achieve uniform level of reference for erection. All concrete surfaces receiving grout shall be hacked as required to ensure better bonding with grouting.
- 2.4 Contractor shall undertake the inspection of all components to be erected sufficiently in advance to check their soundness and conformity to drawings and the inspection records

shall be signed by the Owner as approval for undertaking the installation of the components. Any damage, shortfalls etc. shall be made good to the satisfaction of the Owner.

- 2.5 All grout for equipment shall be carried out using non-shrinkable continuous grout materials with suitable framework of at least 12 mm thickness. Surfaces to receive the grout shall be hacked and roughened and laitance shall be removed by wire brushing or blast of air. Concrete surface shall be blown off by compressed air before commencing grouting. Grouting shall be done in one continuous operation from one side such that grout flows in a single wave until grout reaches all confined spaces with no air pockets and air from all confined spaces is expelled. A hydrostatic head of 150 mm shall be maintained during grouting operations hydrostatic head of 150 mm shall be maintained during grouting operations. All grouting shall be carried out in the presence of the Owner. All lines and levels shall be checked up after grout is set. Block outs shall be closed using cement concrete of the same grade as that of the parent structure.

3. RECORDS, PROCEDURES AND REPORTS

- 3.1 The Contractor shall maintain records pertaining to the quality of installation/erection work and inspection, testing, compliance with all technical requirements in respect of all his works as described in the previous paragraphs. The reporting formats shall be in the approved formats. The Contractor shall submit such records to the Owner after the completion of any particular work before submitting the bill of supply/progress of work. Such report shall comprise shop inspection reports, shop testing reports, material test reports, based on which dispatch clearances are provided, all the quality control reports of welding, erection and alignment records.
- 3.2 All the above mentioned records shall be submitted in the final form duly countersigned by the Owner attesting conformity to specifications and his approval of installation, and duly incorporating all the additions, alterations, and information as required by the Owner, on the basis of preliminary reports giving the progress of the work. Such records notwithstanding, any records submitted earlier with bill of supply/progress etc., shall be duly bound and submitted to the Owner in six copies by the Contractor on his notification of the Electrical completion of erection.

4. GENERAL PREPARATIONS BEFORE COMPLETION OF THE ELECTRICAL SYSTEM

- 4.1 The following documents should be completed in accordance with the Contract schedule before completion of erection. The Owner and the Contractor shall preserve and control these documents in a safe and appropriate place on Site in order that both parties' personnel can make use of them at any time.

- (a) Technical Documents
 - (i) Operation and Maintenance manual
 - (ii) Design documents including the Contractor's design data, drawings and Specifications.
 - (iii) Tools and test equipment list
 - (iv) Spare parts list
- (b) Procedures
 - (i) Mechanical testing procedure
 - (ii) Electrical testing procedure
 - (iii) Instrumentation testing procedure
 - (iv) Detailed Pre-commissioning and Commissioning procedure
 - (v) Detailed Performance Test procedure

5. COMPLETION OF ERECTION

- 5.1 The completion of Electrical System under erection by the Contractor shall be deemed to occur, if all the units of the Electrical System are structurally and electrically complete and will include among other such responsibilities the following:
- (a) Electrical System in the Scope of the Contract has been erected, installed and grouted as per specifications.
 - (b) Installation checks are completed and approved by the Owner
 - (c) The erected Electrical Systems are totally ready for commissioning checks.
- 5.2 At the stage of completion of erection, the Contractor shall ensure that all the physical, aesthetic and workmanship aspects are totally complete and the Electrical System is fit and sound to undergo tests on completion and subsequent pre-commissioning checks.
- 5.3 Upon achieving the completion as described above, the Contractor shall notify the Owner by a written notice intimating completion of erection and notify the Owner for inspection. The Owner shall proceed with the inspection of such units within 14 days of such a notice.
- (a) The Owner shall certify completion when there are no defaults in the Works or
 - (b) The Owner shall inform the Contractor list of deficiencies for rectification hereinafter referred as Punch list and the Contractor shall complete the rectification work within a jointly agreed period before pre-commissioning activities and obtain the Owner's acceptance or approval of the same before proceeding with the same.
 - (c) The Owner may inform the Contractor that the works are accepted with the 'Punch' list (items which do not hamper operability safety or maintainability) and allow the Contractors to proceed with the pre-commissioning checks when the Contractor undertakes to complete such outstanding works within an agreed time during defects liability period. Taking over shall be based on rectification of all deficiencies as advised by Punch lists.

- 5.4 The erection period indicated by the Contractor would be deemed to cover all the activities up to Completion as stipulated in previous paragraphs, notice of completion by the Contractor, inspection by the Owner for Completion, and Contractor rectification of all deficiencies as noticed by the deficiency/Punch list, and acceptance by the Owner of such rectifications, prior to Tests on Completion.
- 5.5 Minor defects, which in the opinion of the Owner which do not hamper operability and maintainability will nor be taken into account for deciding Electrical Completion. Such defects shall be rectified concurrent to commissioning checks before Tests on Completion. However, the Owner's decision in this regard is final.
- 5.6 The commissioning period as notified by the Contractor shall be deemed to occur beyond the date of Completion and shall include all periods of pre-commissioning, trials and Tests on completion.
- 5.7 It is in the Contractor's interest to offer the section/units/systems, progressively under the identified milestones within overall erection period, duly completed for rectification of any deficiencies pointed out by the Owner and to achieve Electrical Completion before undertaking the tests on Completion within the specified erection period. The Owner also reserves the right to withhold the cost as estimated to be equivalent to the rectification of deficiencies pointed out to the Contractor until such a time such deficiencies are rectified to the satisfaction to the satisfaction of the Owner.

6. PRE-COMMISSIONING

- 6.1 After the Completion of erection, Pre-commissioning activates listed below shall be carried out to make the Electrical System ready for Commissioning.
- 6.2 Upon completion of erection of each piece of equipment, facility or discrete part of the Electrical System, Electrical checks and tests shall be carried out according to the Contractor's checklist. The Electrical checks and tests shall be to establish that.
- (a) The Electrical System is erected in accordance with the Contractor's construction drawings, pipe work drawings, instrument diagrams, etc. issued for the Electrical System.
 - (b) The materials are installed and electrically function in accordance with the Contract and
 - (c) Applicable codes as listed in the Contract are followed for materials and workmanship.
- 6.3 Items such as painting, thermal insulation and final clean up which do not materially affect the operation or safety of the Electrical System will be excluded. All these items shall be listed and completed after the Pre-commissioning or Commissioning at the discretion of the Contractor, but before acceptance.
- 6.4 The Contractor shall prepare and maintain at Site test forms and records that shall include:
- (a) Description of type of test or check
 - (b) Date and time of test or check

- (c) Identification of equipment and facilities
 - (d) Test pressure, test data and results, including remarks, if any
 - (e) Signature of the Contractor's personnel attesting to data recorded, if any.
- The Contractor's construction forces thereof shall carry out checks, tests and recording.
- 6.5 Wherever the Owner's witness or attesting of the check or test is required, the Owner's personnel shall attend such check and test. For this purpose, the Contractor shall keep the Owner informed of a day-to-day test plan schedule. The test plan schedule may be revised from time to time to reflect the actual progress of the work and test.
- 6.6 Any items found incomplete or requiring repair or adjustment shall be marked as such on the test records and then reported by the Contractor to the Owner and the Contractor's personnel in charge of the relevant construction area.
- 6.7 Checking procedures shall be repeated until all the items on the checklist are cleared
- 6.8 A complete set of test records shall be handed over to the Owner on completion.
- 6.9 The tests on the different Mechanical and Electrical equipment shall include but not limited to:
- (a) Pump motors

Condition of winding insulation be tested and insulation values shall be restored to required level by suitable heating arrangements locally.
 - (b) MV Switch board / Power Distribution Boards
 - (i) Checking of all internal wiring for correctness as per supplier's drawings.
 - (ii) Insulation resistance test.
 - (iii) CT Polarity Test / PT Ratio Test.
 - (iv) Operational check of instruments and testing of relays by primary / secondary injection.
 - (v) Phase sequence test.
 - (vi) Functional simulation test.
 - (vii) Local & Remote Operation.
 - (c) Power and Control Cables
 - (i) All cores of cables shall be tested individually for continuity and insulation resistance with earth/sheath/armour as well as between the cores, before as well as after installation.
 - (ii) Pressure test as per relevant IS will be carried out on all 11 kV cables together with joints.
 - (d) Distribution Boards / Switch Socket Outlets
 - (i) Checking of wiring as per drawing.
 - (ii) Insulation resistance.
 - (iii) Functional test.

- (e) Tests for Earthing System
 - (i) The resistance of each earth pit shall be measured and recorded.
 - (ii) The resistance of the complete earthing system shall be less than 1.0 ohm or values specified by the local Electrical Inspector whichever is less.
 - (iii) Earthing continuity tests shall be carried out for all the equipment.

7. COMMISSIONING

7.1 After the completion of Pre-commissioning activities the final checks and preparations necessary for start-up of the Electrical System shall be carried out. The Contractor shall submit to the Owner a written Notice of Electrical Completion that shall include:

- (a) Identity of a part of the Electrical System considered electrically complete
- (b) A copy of relevant completed test reports
- (c) The date on which the completion of the tests was achieved
- (d) Check list and
- (e) A request for issuance of a Electrical Completion Certificate in respect of that part.

7.2 Within fourteen (14) days from the date of receipt of the Contractor's written Notice, the Owner shall:

- (a) In the case of acceptance, issue a Electrical Completion Certificate
- (b) In the case of Objection, submit a rejection Statement setting forth remaining items to be completed or defects of deficiencies to be corrected before Electrical Completion status can be accepted. When the Owner rejects the Contractor's Notice the Contractor shall take any necessary action to complete or correct the items marked and give the Owner a second Notice of Electrical Completion.

7.3 After the issuance by the Owner of a Electrical Completion Certificate, Commissioning activities listed below shall be carried out to enable the start-up and operation of the Electrical System Procedures are described as below:

- (a) Commissioning Procedure shall be carried out in a methodical sequence as follows
 - (i) Warming up
 - (ii) Start-up
 - (iii) Initial rearming –
 - (iv) Operability adjustment
 - (v) Stable operation
 - (vi) Final adjustment
- (b) At all stages of commissioning sequence, the Electrical System shall be operated at optimum Electrical System conditions. To ensure this, the Contractor may make minor

adjustment to the conditions indicated in the Operation and Maintenance Manual as necessary.

- (c) The Contractor shall check the operating conditions of the Electrical System by constantly monitoring operating data.
- (d) The Contractor shall specify for each discrete part of the Electrical System the operational data to be recorded and the manner in which the data is to be taken.
- (e) All the operating data shall be recorded by the Owner on the forms to be mutually agreed. The Owner shall make a copy of the operating log and analytical data from initial operation through to the completion of Performance Test available to the Contractor for evaluation.

8. PERFORMANCE TEST

- 8.1 After the final operation of the Electrical System, a Performance Test shall be carried out to demonstrate the Contractor's Performance Guarantee.
- 8.2 Prior to conducting Performance Test, the Contractor shall furnish the detailed Performance Test Procedure for approval.
- 8.3 Performance test shall be carried out by the Contractor's personnel according to the instructions set forth in the Contractor's Operation and Maintenance Manual and under the supervision of Owner's operating personnel.
- 8.4 Operating and analytical data recorded during Performance test shall be taken down by the Owner and made available to the Contractor for evaluation.

9. ACCEPTANCE

- 9.1 Acceptance will occur in any of the three following possible ways:

- (a) Fulfilment of Guarantees

- When Performance Test has been successfully completed and the Performance Guarantees are met.

- (b) Deemed Acceptance

When Performance Test has not been completed or has not been carried out for reasons not attributable to the Contractor within specified date or other mutually agreed period.

- 10. The material to be utilized in execution of work shall confirm to the following Indian Standards (IS) which shall mean latest revisions, Amendments / changes and published unless otherwise specified herein before.**

Sr. No.	Indian Standards	Titles	
1.	IS-226	Structural Steel Standard quality	
2	IS-2062	Structural steel (fusion welding quality).	
3.	IS-802	Code of practice for use of structural steel in overhead transmission line towers and part-I loads & permissible stresses.(first revision)	
4.	IS-808	Rolled steel beam, channel and angle sections and Part-I Dimensions for hot Rolled steel beam Part-I MB series (second revision).	
5.	IS-4759	Hot dip zinc coating on structural steel and other allied products.	
6.	IS-6639	Hexagonal Bolts for steel Structure.	
7.	IS-10238	Step Bolts for steel structures.	
8.	IS-1367	Technical supply conditions for threaded fasteners.	
9.	IS-2016	Plain washers.	
10.	IS-4072	Steel for Spring washers	
11.	IS-3063	Single coil rectangular section spring washers for bolts, nuts and screws.(first revision)	
12.	IS-6821	Methods for sampling non-threaded fasteners.	
13.	IS-1573	Electroplated coatings of zinc on iron and steel.	
14.	IS-2486	Insulator fittings for overhead power lines of 3.3 KV and above.	
15.	IS-2633	Method of testing uniformity of coating on Zinc coated article.(first revision)	
16.	IS-2121	Fittings for aluminium and steel cord aluminium conductor for overhead power lines (with amendments No 1 to 3)	
17.	IS-731	Porcelain Insulators for overhead power lines with a nominal voltage greater than 1000V.(second revision)	
18.	IS-2141	Galvanized Stay strand (first revision) (with amendments No 1 to 3)	
19.	IS-398	Part-I Aluminium conductor for overhead Part-II Aluminium conductor, galvanized steel reinforced (second revision)	revision)
		Part-III Aluminium conductor, Aluminium steel reinforced (second revision)	revision)
20.	IS-4826	Galvanized coating on round steel wires.	
21.	IS-2551	Danger notice plate (with amendments No 1)	

22.	IS-2629	Recommended practice for hot dip galvanizing of Iron and steel.	
23.	IS-5358	Hot dipped galvanised coating on fasteners.	
24.	IS-5613	Code of practice for design, installation and maintenance of over-head power	
		Line.	
		(Part-I Sec-I)- Lines upto and including 11 KV, section/design.	
		(Part-I Sec-II)- Lines upto and including 11 KV, section installation and	
		Maintenance.	
25.	IS-6745	Method for determination of weight of zinc coating on zinc coated iron and	
		Steel articles.	
26.	IS-7215	Tolerance for fabrication of steel structures.	
27.	IS-8577	Specification for weldable structures steel (medium and high tensile quality).	
28.	IS-338	Varnish ,under coating, exterior, natural resin	
29.	IS-800	Code of practice for use of structural steel in general building construction(
		Revised) with amendments No.1&2.	
30.	IS-3034	Code of practice for fire safety of Industrial building. Electrical generating and	
		Distributing stations.	
31.	IS-269	Ordinary and low heat Portland cement.	
32.	BS-16	Telegraph material (Insulator, pole fitting etc.)	
33.	BS-729	Hot dipped Galvanisation	
34.	IS-2427	Grading of continuous filament viscose rayon yarn and acetate yarn, bright	
		And dull.	
35.	IS-1363	Black Hexagonal	bolts, nuts and lock nuts(dia meter 6 to 39mm) and black
		hexagon screws(dia 6 to 24 mm) first revision with Amendment No.1)	
36.	IS-1852	Rolling & cutting tolerance for hot rolled steel products.	
37.	IS-1778	Reels and drums	for bare wire(with Amendment No. 1 & 2).
38.	IS-4218	ISO metric Screw Threads.(Part.I- Basic and design profiles, Part-II- Pitch	
		diameter combinations, Part.III- Basic dia mansions for design profiles,	
		Part.IV- Telebanking system, Part. V- Tolerances, Part.VI- Limits of sizes for	
		Commercial bolts and nuts (dia meter range 1 to 39 mm).	
39.	IS-7887	Mild steel wire rod for general Engg. Purpose.	
40.	IS-280	Mild steel wire for general engineering purpose (Second revision).	
41.	IS-5300	Porcelain Guy Strain insulator	
42.	IS-5561	Electric power connectors.	
43.	IS-5	Colours for ready mixed paints (Second revision).	
44.	IS-3972	Methods of Test for vitreous enamel wire.	

45.	IS-4711	Methods for sampling of steel pipes, tubes and fittings.
46.	IS-1599	Method for bend test for steel products other than sheet, strip, wire and tube(first revision)
47.	IS-1678	Pre-stressed concrete poles for overhead power traction & Telecommunication Lines.
48.	IS-8623	Methods for radio interference tests on high voltage insulators
49.	IS-13947	Specification for low voltage switchgear & control gear.
50.	IS-14255	Aerial Bunched Cable for working voltages up to and including 400 V – Specification.
51.	IS-8130	Conductor for insulated electric cables & flexible cords.
52.	IS-5561	Electric power connectors.
53.	IS-617	Aluminium and aluminium alloy ingots and casting for general engineering Purpose (second revision).
54.	IS-2544	Porcelain post insulators for systems with nominal voltages greater than 1000 Volts (First revision) (with Amendment No.1).
55.	IS-7098	LT XLPE insulated (Heavy Duty) electric cables.
56.	IS-5831	PVC insulation and sheath of electric cables (with Amendments No. 1 to 3).
57.	IS-1239	Mild steel tubes, tubulars and other wrought steel fittings.
58.	IS-5039	Distribution pillar for voltages not exceeding 1000 volts.

For 12Kv RMUs:

IEC 62271-200/IS 12729:1988	General requirement for Metal Enclosed Switchgear				
IEC62271-102/IS 9921	Alternating Current disconnectors (Load Break				
	Isolators) and Earthing Switch.				
IEC 62271-100 / IEC 62271-200	Specification for alternating current circuit	breakers			
IEC 62 271-1	Panel design, SF6/Vacuum Circuit Breakers				
IEC60044-1/IS2705:1992	Current Transformer				
IEC 60265/IS 9920:1981	High voltage switches				
IEC 376	Filling of SF6 gas in RMU				
IEC 60273/IS :2099	Dimension of Indoor & Outdoor post insulators with				
	voltage > 1000 Volts				
IEC 60529/IS 13947(Part-1)	Degree of protection provided by enclosures for low				
	voltage switchgear and control gear.				
IS 3043-1987	Code of Practice for earthing				
Indian Electricity Rules/Bills					
For 33Kv VCBs					
IEC56/IS:13118/IS-	Circuit				
3427/IS:10118 (Part-III) –	Breaker/				
1982/ IS:2165-1977/	metal				
IS:3716-1976/ IEC-62271-	enclosed				
100/ IEC-62271-200	Switchgear				
	and control gear.				
IS: 3156	Voltage transformers.				
IS: 2705	Current transformers.				
IS: 3231	Electrical Relays for power system.				
IS:1248	Meters and				
	Instruments				
IS:14697-1999	Specification for AC static transformer operated watt hour				
	and VAR hour meters class 0.2 S & 0.5 S.				
IEC-62053-22-2003	Specification for AC Static Watt hour Meters, class 0.2 S &				
IEC-62052-11-2003					
CBIP	Technical Report	Specification for AC Static Electrical Energy Meter.			
No.304					

Signature of Contractor/Bidder

Executive Engineer (Elect-I)

JDA, Jaipur

Compliance with the Code of Integrity and No Conflict of Interest

Any person participating in a procurement process shall-

- (a) Not offer any bribe, reward or gift or any material benefit either directly or indirectly in exchange for an unfair advantage in the procurement process or to otherwise influence the procurement process;
- (b) Not misrepresent or omit that misleads or attempts to mislead so as to obtain a financial or other benefit or avoid an obligation;
- (c) Not indulge in any collusion, Bid-rigging or anti-competitive behavior to impair the transparency, fairness and progress of the procurement process;
- (d) Not misuse any information shared between the procuring entity and the bidders with an intent to gain an unfair advantage in the procurement process;
- (e) Not indulge in any coercion including impairing or harming or threatening to do the same, directly or indirectly, to any party or to its property to influence the procurement process;
- (f) Not obstruct any investigation or audit of a procurement process;
- (g) Disclose conflict of interest, if any; and
- (h) Disclose any previous transgressions with any entity in India or any other country during the last three years or any debarment by any other procuring entity.

Conflict of interest:

The Bidder participating in a bidding process must not have a Conflict of Interest.

A Conflict of interest is considered to be a situation in which a party has interests that could improperly influence that party's performance of official duties or responsibilities, contractual obligations, or compliance with applicable laws and regulations.

A bidder may be considered to be in conflict of interest with one or more parties in the bidding process if, including but not limited to:

- (a) Have controlling partners/shareholders in common; or
- (b) Receive or have received any direct or indirect subsidy from any of them; or
- (c) Have the same legal representative for purposes of the bid; or
- (d) have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another bidder, or influence the decisions of the procuring Entity regarding the bidding process; or
- (e) The bidder participates in more than one bid in a bidding process. Participation by a bidder in more than one bid will result in the disqualification of all bids in which the bidder is involved. However, this does not limit the inclusion of the same subcontractor, not otherwise participating as a bidder, in more than one bid; or
- (f) the bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the goods, works or services that are the subject of the Bid; or
- (g) Bidder or any of its affiliates has been hired (or proposed to be hired) by the procuring entity as engineer-in-charge/consultant for the contract.

Declaration by the Bidder regarding Qualifications

Declaration by the Bidder

In relation to my/our Bid submitted tofor procurement ofin response to their Notice inviting Bids No.....Dated.....I/wehereby declare under Section 7 of Rajasthan Transparency in Public Procurement Act, 2012 that:

1. I/we possess the necessary professional, technical, financial and managerial resources and competence required by the Bidding Document issued by the Procuring Entry;
2. I/we have fulfilled my/our obligation to pay such of the taxes payable to the union and the state government or any local authority as specified in the Bidding Document.
3. I/we are not insolvent, in receivership, bankrupt or being wound up, not have my/our affairs administered by a court or a judicial officer, not have my/our business activities suspended and not the subject of legal proceedings for any of the foregoing reasons;
4. I/we do not have, and our directors and officers not have, been convicted of any criminal offense related to my/our professional conduct or the making of false statements or misrepresentations as to my/our qualifications to enter into a procurement contract within a period of three years preceding the commencement of this procurement process, or not have been otherwise disqualified pursuant to debarment proceedings;
5. I/we do not have a conflict of interest as specified in the Act, Rules and the Bidding Document, which materially affects fair competition;

Date:

Signature of the bidder

Place:

Name:

Designation:

Address:

Note:- Annexure "B" is mandatory to be fulfilled & signed with seal by the bidder failing which the bid shall summarily be rejected without asking any clarification.

Grievance Redressal during Procurement Process

The designation and address of the First Appellate Authority:

For works costing up to Rs. 300.00 Lakhs - Jaipur Development Commissioner, JDA, Jaipur.

For works costing above Rs. 300.00 Lakhs - Executive Committee, JDA, Jaipur.

The designation and address of the Second Appellate Authority:

For works costing up to Rs. 300.00 Lakhs - Executive Committee, JDA, Jaipur.

For works costing above Rs. 300.00 Lakhs - Principle Secretary/ ACS, Urban Development & Housing Department, GOR, Jaipur.

(1) Filing an appeal: -

if any bidder or prospective bidder is aggrieved that any decision, action or omission of the procuring entity is in contravention to the provisions of the Act or the rules or the guidelines issued there under, he may file an appeal to First Appellate authority, as specified in the Bidding document within a period of ten days from the date of such decision or action, omission, as the case may be, clearly giving the specific ground or grounds on which, he feels aggrieved:

Provided that after the declaration of a bidder as successful the appeal may be filed only by a bidder who has participated in procurement proceedings:

Provided further that in case a procuring entity evaluates the technical bids before the opening of the financial bids, an appeal related to the matter of financial bids may be filed only by a bidder whose technical bid is found to be acceptable.

(2) The officer to whom an appeal is filed under Para (1) shall deal with the appeal as expeditiously as possible and shall Endeavour to dispose it of within thirty days from the date of the appeal.

(3) If the officer designated under Para (1) fails to dispose of the appeal filed within the period specified in Para (2), or if the bidder or prospective bidder or the procuring entity is aggrieved by the order passed by the first appellate authority, the bidder or prospective bidder or the procuring entity, as the case may be, may file a second appeal to the second appellate authority specified in the bidding document in this behalf within fifteen days from the expiry of the period specified in Para (2) or of the date of receipt of the order passed by the first appellate authority, as the case may be.

(4) Appeals not to lie in certain cases: -

No appeal shall lie against any decision of the procuring entity relating to the following matters, namely: -

- (a) Determination of the need of procurement
- (b) Provisions limiting the participation of bidders in the bid process
- (c) The decision of whether or not to enter into negotiations
- (d) Cancellation of a procurement process
- (e) Applicability of the provisions of confidentiality

(5) Form of Appeals: -

- (a) An appeal under Para (1) or (3) above shall be in the annexed form along with as many copies as there are respondents in the appeal.
- (b) Every appeal shall be accompanied by an order appealed against, if any, Affidavit verifying the facts stated in the appeal and proof of payment of fee,
- (c) Every appeal may be presented to the first appellate authority or second
The appellate authority, as the case may be, in person or through registered post or authorized representative.

(6) Fee for filing Appeal: -

- (a) Fee for the first appeal shall be rupees two thousand five hundred and for the second appeal shall be rupees ten thousand, which shall be non-refundable.

- (b) The fee shall be paid in the form of a bank demand draft or banker's cheque of a scheduled bank in India payable in the name of the appellate authority concerned.

(7) Procedure for disposal of Appeal: -

- (a) The first appellate authority or second appellate authority as the case may be, upon the filing of the appeal, shall issue notice accompanied by a copy of the appeal, affidavit and documents, if any, to the respondents and fix a date of hearing
- (b) On the date fixed for hearing, the first appellate authority of the second appellate authority, as the case may be shall-
 - (i) Hear all the parties appeal presenting before him; and
 - (ii) Peruse or inspect documents, relevant records or copies thereof relating to the matter.
- (c) After hearing the parties, perusal or inspection of documents and relevant records or copies thereof relating to the matter, the appellate authority concerned shall pass an order in writing and provide a copy of the order to the parties to appeal free of cost.
- (d) The order passed under sub-clause (c) above shall also be placed on the state public procurement portal.

Additional Conditions of Contract

1. Correction of arithmetical errors

Provided that a financial bid is substantially responsive, the procuring entity will correct arithmetical errors during the evaluation of financial Bids on the following basis:

- (i) if there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected unless in the opinion of the procuring entity, there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price shall be corrected;
- (ii) if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
- (iii) if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (i) and (ii) above.

If the Bidder that submitted the lowest evaluated bid does not accept the correction of errors, its bid shall be disqualified and its bid security shall be forfeited or its bid securing declaration shall be executed.

2. Procuring Entity's Right to Vary quantities.

- (i) At the time of award of the contract, the quantity of goods, works or services originally specified in the bidding documents may be increased or decreased, by a specified percentage, but such increase or decrease shall not exceed fifty percent, of the quantity specified in the bidding documents. It shall be without any change in the unit prices or other terms and conditions of the bid and the conditions of the contract.
- (ii) If the Procuring entity does not procure any subject matter of procurement or procures less than the quantity specified in the bidding document due to change circumstances, the bidder shall not be entitled to any claim or compensation except otherwise provided in the conditions of the contract.

3. Dividing quantities among more than one bidder at the time of award (In case of procurement of Goods):-

As a general rule, all the quantities of the subject matter of procurement shall be procured from the Bidder, whose Bid is accepted. However, when it is considered that the quantity of the subject matter of procurement to be procured is very large and it may not be in the capacity of the Bidder, whose Bid is accepted, to deliver the entire quantity or when it is considered that the subject matter of procurement to be procured is of critical and vital nature, then in such cases, the quantity may be divided between the Bidder, whose Bid is accepted and the second lowest Bidder or even more Bidder in that order, in a fair, transparent and equitable manner at the rates of the Bidder, whose Bid is accepted.

Process for Tender Participation & Depositing Payment on ‘Online Tender Participation’ Portal of JDA & Bid Submission on ‘e-Procurement Portal’ of Government of Rajasthan: -

A*Process for Tender Participation & Depositing Payment on ‘Online Tender Participation’ Portal of JDA

1-Participate in tender

- a) Bidder can access ‘Online Tender Participation’ Portal of JDA at <https://jda.urban.rajasthan.gov.in/jda> or by Single-Sign-On at <http://service.jaipurjda.org>.
- b) Create user Login with a valid mobile number to register yourself for various Online Services of JDA.
- c) Select ‘Proceed as Citizen’ and then ‘Proceed for Subscription’ for ‘Tender Online Payment’. The prevailing plan for getting registered for tendering process of JDA is Rs. 500.00 with a validity period of 3 Years (renewable).
- d) After successful payment, re-login and upload required documents for KYC (Know Your Client) compliance as per the type of entity viz. Individuals/ Company/ Partnership Firms/ Trusts & foundations. Besides, Bank Passbook / Cancelled Cheque consisting of Bank Account, IFSC Code is mandatory to be uploaded, to refund the bid security of unsuccessful bidder.
- e) After receiving the payment successfully and approving KYC documents the bidder will be authenticated by JDA for taking part in Tender.

2-Deposit Tender Fee, RISL processing fee and Bid Security (EMD)

- **Option-1:** Payment Gateway (Aggregator)
The facility to make payment through Debit Card, Credit Card, Net banking etc., will be available. User can use this facility from anywhere any time till the closing date & time of bid participation.
- **Option-2:** Electronic Fund Transfer (EFT: NEFT/RTGS)
If the bidder selects payment mode as EFT (NEFT/RTGS), “Paying Slip for EFT (NEFT/RTGS)” will be generated by the system for the complete amount. The payment can be made from any Bank any Branch using this Paying Slip through NEFT/RTGS (Claim against payment made through EFT in any other JDA bank account will not be acceptable and bidder stands disqualified from participation in the bid applied for). After successful transaction through NEFT/RTGS, as per the standard procedures it may take 4 to 24 hours in process of confirmation of EFT through Auto-Process depending on the time of EFT done. Therefore, option to make payment through EFT (NEFT/RTGS) will be available till 48 hours prior to closing date of bid participation.

3-Deposit Bid Security (EMD)

The Bid Security (EMD) can be submitted through Bank Guarantee (BG). Bidder may opt Bank Guarantee (BG) against Bid Security (EMD), for which bidder requires to prepare BG before applying in the tender. The detail of BG requires to be fed on ‘Online Tender Participation’ Portal of JDA before paying balance amount (Tender Fee + RISL Processing Fee). This balance amount will be paid through Payment Gateway only, option to make balance payment through EFT (RTGS/NEFT) will not be available.

4-Obtain Bid Participation Receipt

After confirming payment, the bidder will get Bid Participation Receipt based on which user will get the payment details along with other details for bidding on e-Procurement portal of GOR.

- In case of BG as the remaining payment will be done through Payment Gateway, on successful transaction the ‘Bid Participation Receipt’ will be generated on real time basis.
- In case complete payment is done through Payment Gateway, on successful transaction the ‘Bid Participation Receipt’ will be generated on real time basis.
- In case complete payment is done through EFT (NEFT/RTGS), on confirmation of payment from ICICI Bank (Auto Process) ‘Bid Participation Receipt’ will be available on Login of Bidder on JDA portal.

B-**Bid Submission on ‘e-Procurement Portal’ of Government of Rajasthan

- 1- Online e-Bid can be submitted after registration at e-Procurement Portal of Government of Rajasthan www.eproc.rajasthan.gov.in
- 2- It is mandatory to upload Bid Participation Receipt with the bid submission.
- 3- Details of online payment available on Tender Participation Portal of JDA have to be filled in ‘offline payment’ section of e-Procurement portal.

Note

- 1- Bidder (authorized signatory) shall submit their offer on-line in electronic formats both for technical and financial proposal.
- 2- In case, any of the bidders fails to pay the Tender Fee, BSD, and RISL Processing Fee, online (subject to confirmation), its Bid shall not be accepted.
- 3- To participate in online bidding process, Bidders must procure a Digital Signature Certificate (Type III) as per Information Technology Act-2000 using which they can digitally sign their electronic bids. Bidders can procure the same from any CCA approved certifying agency, i.e., TCS, Safecrypt, nCode etc. Bidders who already have a valid Digital Signature Certificate (DSC) need not procure a new DSC. Also, bidders must register on <http://eproc.rajasthan.gov.in> (bidders already registered on <http://eproc.rajasthan.gov.in> before 30-09-2011 must register again).
- 4- JDA will not be responsible for delay in online submission due to any reason. For this, bidders are requested to upload the complete bid well advance in time so as to avoid 11th hour issues like slow speed; choking of web site due to heavy load or any other unforeseen problems.
- 5- Bidders are also advised to refer "Bidders Manual Kit" available at eProc website for further details about the e-Tendering process.
- 6- Training for the bidders on the usage of e-Tendering System (eProcurement) is also being arranged by DoIT&C, GoR on a regular basis. Bidders interested in training may contact e-Procurement Cell, DoIT&C for booking the training slot.

Contact No: 0141-4022688 (Help desk 10 am to 6 pm on all working days) e-mail: eproc@rajasthan.gov.in

Address: e-Procurement Cell, JDA, Yojana Bhawan, Tilak Marg, C-Scheme, Jaipur

- 7- The procuring entity reserves the complete right to cancel the bid process and reject any or all of the Bids.
- 8- No contractual obligation whatsoever shall arise from the bidding document/ bidding process unless and until a formal contract is signed and executed between the procuring entity and the successful bidder.
- 9- Procurement entity disclaims any factual/ or other errors in the bidding document (the onus is purely on the individual bidders to verify such information) and the information provided therein are intended only to help the bidders to prepare a logical bid-proposal.
- 10- The provisions of RTPPA Act 2012 and Rules thereto shall be applicable for this procurement. Furthermore, in case of any inconsistency in any of the provisions of this bidding document with the RTPPA Act 2012 and Rules thereto, the later shall prevail.

Jaipur Development Authority, Jaipur.	
Bid Participation Receipt	
	Date & Time:-
Bid Detail	
Bid ID:	Procurement Entity:-
Bid Title:	
Bid Value:	Bid Opening Place:
Bidder Detail	
Name of Entity:	Mobile No.:
Registration Type:	Instrument Amount:
Payment Mode:	Payment Channel:
Instrument No.:	Instrument Date:

Dates Detail		
Sr. No.	Event Name	Event Date
1	Publishing Date	
2	Bid Opening Date	

Specific Instrument for eProc Rajasthan			
Instrument Type			
Instrument Number	Head Name	Amount	Date
	Tender Fee		
	RISL Processing Fee		
	Bid Security Deposit		
Issuer Detail: Jaipur Development Authority		Challan Number:	

More details about Registration Process, Terms and Conditions and FAQ along with contact detail is available on JDA website www.jda.urban.rajasthan.gov.in.

FORM No. 1

[See Rule 83]

**Memorandum of Appeal under the Rajasthan
Transparency in Public Procurement Act, 2012**

Appeal No. of

Before the (First/Second Appellate Authority)

1. Particulars of appellant :

(i) Name of the appellant :

(ii) Official address, if any :

(iii) Residential address :

2. Name and address of the respondent (s) :

(i)

(ii)

(iii)

3. Number and date of the order appealed against and name and designation of the officer/authority who passed the order (enclose copy), or a statement of a decision, action or omission of the Procuring Entity in contravention to the provisions of the Act by which the appellant is aggrieved:

4. If the Appellant proposes to be represented by a representative, the name and postal address of the representative:

5. Number of affidavits and documents enclosed with the appeal:

6. Grounds of appeal:

(Supported by an affidavit)

7. Prayer:

Place

Date

Appellant's Signature

SPECIAL CONDITIONS OF CONTRACT REGARDING DEFECT LIABILITY PERIOD (DLP)
FOR WORKS COSTING RS. 25.00 LACS AND MORE

Table-1

S.No.	Type of work	DLP Period
1.	Bridge Work	5 Years
2.	CD Work	5 Years
3.	CC Road. PQC Work	5 Years
4.	CC tiles/Krebs/medians	5 Years
5.	Drains	3 Years
6.	Roads	
	(i) Two-layer WBM/GSB	6 months or one full rainy season whichever is later
	(ii) For Renewal/Strengthening	
	(a) BT up to 30 mm thickness	1 Years
	(b) BT above 30 mm to up to 40 mm	2 Years
	(c) BT above 40 mm to up to 90 mm	3 Years
	(d) BT above 90 mm thickness	5 Years
	(iii) New Roads	
	(a) BT up to 90 mm	3 Years
	(b) BT more than 90 mm	5 Years
7.	Compound wall	3 Years
8.	Building Work	
	(i) Work pertaining to Sanitary work electrical works, Joinery works and painting work.	2 Years
	(ii) Work pertaining to the Building structure and other electrical works	5 Years
9.	Electric work except for maintenance	3 years
10.	Sewer/Water supply including STP and water supply-related work except for maintenance works.	3 Years

1. ROAD-WORKS

- 1.1 The Defect Liability Period (DLP) for all Road works excluding patch repair work shall be as per the above table. Road works executed by the Contracting agency shall be maintained by them at their own cost for completion (DLP) from the actual date of completion of work as per the clause in the Contract Agreement and Special Condition of the Contract.
- 1.2 No extra payment shall be made to the contracting agency on account of maintenance of Road works and removal of defect during the Defect Liability Period.
- 1.3 The word "Road Works" means all new Road Works construction, widening, strengthening, up-gradation and renewal works
- 1.4 The word "Maintenance of Road Works during Defect Liability Period" means
- (i) Routine maintenance of Road Works,
 - (ii) To remove the defect as & when appear in part and the entire structure of Road Works, in the specified time and keeping the Road Surface with good riding quality and
 - (iii) Damages due to improper drainage/ drains, local flooding, depressions on roads etc.
- 1.5 The contracting agency shall do the routine maintenance of Road works, including pavement, road side and cross drains including surface drains to the required standards and keep the entire road surface and structure in Defect free conditions during the entire period of routine maintenance, which begins at the completion of the construction work and ends after complete (DLP).
- 1.6 The routine maintenance shall consist of the routine maintenance operation defined in the manual for the maintenance of roads of MoRTH and shall be carried out accordingly.
- 1.7 The routine maintenance activities and their periodicity.

S.No.	Name of Item/Activity	Frequency of operations in one year
1	Restoration of rain cuts and dressing of berms.	Once in a year, generally after rains.
2	Making up of shoulders.	As and when required.
3	Maintenance of Bituminous surface road and/or gravel road/WBM road including filling pot holes and patch repairs etc.	As and when required.
4	Insurance of proper functioning of drains including electrical maintenance and desalting of drains. (If constructed by the same Road agency or not)	As and when required.
5	Maintenance of road signs. (If installed by the same Road agency)	Maintenance as and when required. Repainting once in every one and a half years.
6	Road Marking, Kerb Stone / Dand. (If done by the same Road agency)	Thermoplastic Paint Maintenance as and when required. Repainting once in everyone & a half year. Ordinary Paint Maintenance as and when required. Repainting thrice in every year.
7	Damages beyond the control of the agency.	Road cuts made by various agencies for utility, duly permitted by JDA / JNN will have to be repaired by the agency on the same rates of the contract agreement till DLP.

2. General

2.1 Inspection of works during the Defect Liability Period

2.1.1 The contracting agency shall undertake a joint detailed inspection along with Engineer-in-charge/A.En., at least once in three months in case of all Road works. The Engineer-in-charge can reduce this frequency in case of an emergency. The Contracting agency shall forward to the engineer in-charge the record of inspection and rectification immediately after the joint inspection. The Contracting agency shall pay particular attention to those road sections, which are likely to be damaged during rainy season.

2.1.2 One register has to be maintained by every AEN for recording the inspection details of works in his jurisdiction under defect liability period.

2.2 Conditions regarding Performance Security

2.2.1 Security for DLP-

The contracting agency shall have to furnish Performance Security in the form of Bank Guarantee valid from the actual date of completion, which shall be assigned by the Engineer-in-charge.

2.2.2 The release of PS amount shall be as per following table 2 :-

S.No.	Released PS \ DLP Period	1 Year	2 Years	3 Years	5 Years
1.	After 1 year	100%	40%	20%	10%
2.	After 2 year		60%	20%	10%
3.	After 3 year			60%	10%
4.	After 4 year				20%
5.	After 5 year				50%

The Performance Security will be released as per the above table after a satisfactory performance certificate issued by Engineer-In-Charge:-

2.2.3 Forfeiture of Performance Security

In case the contracting agency fails to rectify the defects within the stipulated period notified to him by the Engineer-in-charge concerned under the contract agreement, the Engineer-in-charge shall serve a final notice for 5 days time reckoned from the date of issue of notice to rectify the defects. In case the contracting agency not responding to the notice and fails in the rectification of defects the Engineer-in-charge will get the defect removed at the risk and cost of the contracting agency. Action such as encashment of Bank Guarantee and action under enlistment rules etc. shall also be taken against the contracting agency by the competent authority.

1.2.4 Force Majeure

The defect that arises due to earthquakes, cyclones, and natural calamities shall not be the responsibility of contracting agency.

2.2.5 Various conditions for managing DLP are as under:-

- (i) At the time of completion of work, final component shall be worked out for each individual item like BT/CC/tiles/ drains etc. (as per different categories in Table-I), DLP shall be operative based upon type of individual item ex:- CC-5 years, BT-1/2/3/5 years, Drain-3 years etc.
- (ii) If any work, amount is less than Rs. 25 lacs but later on due to extra/excess work, if amount of final work crosses more than Rs. 25 lacs, DLP shall be operative as per rule for each individual item.
- (iii) Similarly, if any work is more than Rs. 25 lacs but after finalization amount of work is less than Rs. 25 lacs, DLP should be operative for six months or rainy season whichever is later.
- (iv) During DLP period if contractor fails to repair any work even after the issue of 7 days written notice, the same work shall be got executed by the respective Executive Engineer at the contractor's risk and cost. This process shall be applicable throughout the DLP period. After completion of DLP period in such works contractor should be debarred and blacklisted, from JDA for three years as per RIPP rule 2012 and 2013 where his defaults twice in a single agreement or in two different works.
- (v) Quarterly Inspection as per rules shall be carried out and DLP registers shall be maintained by respective Executive Engineers to monitor the DLP repairs.
- (vi) Special and regular inspection shall also be carried out as per order no. JDA/XEN & TA to DE-I/2014-15/D-223 dated 12.03.2015 and order no. SE (PMGSY) CIRCULAR 2006/D-115 dated 04.05.2006 Point no. 3.
- (vii) In case JDA feels to take up work on any existing DLP road due to any reason, the following procedure should be adopted:
 - (a) At the time of withdrawal total liability of repairs as per DLP conditions to be carried out and the contractor shall be asked to complete the same. After completion of assessed repairs, DLP period shall be released after deduction amt. as per following table-III.

Table-3

% Recovery on withdrawal of DLP of work order	1 Year	2 Year	3 Year	4 Year	5 Year
DLP period					
1 Year	1.12	-	-	-	-
2 Year	2.55	1.43	-	-	-
3 Year	4.38	3.26	1.83	-	-
5 Year	9	7.88	6.45	4.62	2.47

Note:- Calculation is to be done on a quarterly basis.

- (b) In case the Contractor fails to carry out these repairs, same shall be carried out at his risk and cost. If the total amt. of such repairs works out to be more than the total retained amount of PS same shall be recovered from other works and as per PDR rules. The amount as per Table 3 is also to be deducted in addition to this amount.
 - (viii) Based upon the type of work, DLP conditions for works to be carried out during the DLP period with their frequency of the respective type of work shall be prepared by respective SE's after approval of these periods.
3. In case patch repairs/electrical maintenance works costing more than Rs. 25.00Lakhs, defect liability period will as per clause 37(C) of Contract Agreement.

**Executive Engineer-(Elect.-I)
JDA, Jaipur**

[Validate](#)[Print](#)[Help](#)

Percentage BoQ

Tender Inviting Authority: JAIPUR DEVELOPMENT AUTHORITY, JAIPUR

Name of Work: Conversion of existing HPSV & Normal LED lighting System into NB IoT based LED Smart lighting System, which are installed by JDA at various locations beyond the Jaipur Nagar Nigam Jurisdiction/energy bills paid by JDA

Contract No: EE (ELECT-I)/10/2023-24

Bidder Name :

PRICE SCHEDULE

(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)

Sl. No.	Item Description	Quantity	Units	Estimated Rate	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
Part-A						
1	Replacement of existing HPSV/LED Street lights by SITC of LED street light fixture >140 lm/w with dimmable DALI driver (0-10V) and 7-pin receptacle NEMA socket. Complete in all respect as per details below					
1.1	SITC of 110 Watts LED Luminaire of >140lm/w with dimmable DALI driver (0-10V), IP66 with 7 pin recetpable NEMA socket & SITC of Nema 7 pin IoT based Intelligent Lighting Controller with 0-10V DC dimming output with all inclusive SIM Card and connectivity charges for 3 years from Go live & SITC of Over-Voltage Protection device (power cut-off at >270V and <170V) to be installed either inside the street light fixture or inside the junction box at the bottom of the lamp post. Complete in all respect as per annexure A	3881.00	Each	18200.00	70634200.00	INR Seven Crore Six Lakh Thirty Four Thousand Two Hundred Only
1.2	SITC of 70 Watts LED Luminaire of >140 lm/w with dimmable DALI driver (0-10V), IP66 with 7 pin recetpable NEMA socket & SITC of Nema 7 pin IoT based Intelligent Lighting Controller with 0-10V DC dimming output with all inclusive SIM Card and connectivity charges for 3 years from Go live & SITC of Over-Voltage Protection device (power cut-off at >270V and <170V) to be installed either inside the street light fixture or inside the junction box at the bottom of the lamp post with. Complete in all respect as Per Annexure B	1119.00	Each	17200.00	19246800.00	INR One Crore Ninety Two Lakh Forty Six Thousand Eight Hundred Only

Sl. No.	Item Description	Quantity	Units	Estimated Rate	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
2	Design, Development, Customisation and Hosting on Cloud, Street Light Smart Management Software , Secure Data base , Remote controlling , Monitoring , Power metering features and all kind reports Generation & Development , Customisation and Hosting of Mobile Apps for Street Light Management for field activity , Training on Software and Mobile app , all kind recurring charges & All upgrade, O&M, bug fixing for three years for upto 5000 ILCs.Complete in all respect as per Annexure-C	1.00	Each	16500000.00	16500000.00	INR One Crore Sixty Five Lakh Only
3	Comperhansive Operation & Maintenance of the complete lighting system (new installation) for 3 years from the date of go live, include all kind incidental expenses, insurance cost and manpower cost & Hosit/lifter/crane charges including ward and watch. Complete in all respect as per tender document	5000.00	Each	2400.00	12000000.00	INR One Crore Twenty Lakh Only
Total in Figures					118381000.00	INR Eleven Crore Eighty Three Lakh Eighty One Thousand Only
Quoted Rate in Figures				Select	0.000	INR Zero Only
Quoted Rate in Words			INR Zero Only			

Validate

Print

Help

Item Rate BoQ

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Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	3	4	5	6	7
Part-B						
1	The Buy back of the existing lighting fixtures, The bidder has to replace the existing lighting fixture for installation of new energy efficient LED Smart lighting System. These replaced/removed lighting fixture is to buy back by the bidder.	5000.00	Each		0.00	INR Zero Only
Total in Figures					0.00	INR Zero Only
Quoted Rate in Words		INR Zero Only				