



Standard Bidding Document

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Technical Specifications

Name of Work	:	<i>Supply, Installation, Testing & Commissioning of Digital Lighting Control System at New Legislature Complex, Jammu.</i>
Unit	:	<i>Unit-Kathua, JKPCCLtd. Rail Head Complex, Jammu</i>
Time of Completion	:	<i>45 days from the Date of Award of Contract</i>

Sig. Of Bidder



J&K PROJECTS CONSTRUCTION CORPORATION LTD.

(A J&K State Govt. Undertaking)

NOTICE INVITING TENDER

E-NIT No: 17 of 2018-19 Dated :12/11/2018

On behalf of Managing Director, Jammu & Kashmir Projects Construction Corporation Ltd., the Deputy General Manager, Unit-Kathua, JKPC Ltd., Jammu invites e-tenders from OEM'S(Original Equipment Manufacturers)/authorise representative for the following work:

S.No	Name of Work	Estimated Cost (Rs. in lacs)	Cost of document(Rs.)	Earnest Money (Rs. in Lacs)	Time of completion	Class of Contractor
1.	Supply, Installation, Testing & Commissioning of Digital Lighting Control System at New Legislature Complex, Jammu.	Rs. 200.00 Lacs	Rs. 2000/-	Rs. 4.00 Lacs	45 Days from the date of award of contract	"A "

Qualification criteria, scope of work, tender documents, BOQ and all other terms & conditions can be seen and downloaded from www.jktenders.gov.in.

Critical Dates:

1.	Period of downloading of NIT	15.11.2018 from 1000 Hrs. to 06.12.2018 upto 1400 Hrs.
2.	Pre-Bid Meeting	19.11.2018 at 1200 Hrs. in Office of General Manager, JKPC Ltd., Rail Head Complex, Jammu
3.	Bid submission dates	19.11.2018 from 1000 Hrs. to 06.12.2018 upto 1400 Hrs.
4.	Date of opening of Bid	08.12.2018 at 1200 Hrs. in Office of General Manager, JKPC Ltd., Rail Head Complex, Jammu
5.	Original Hard Copies of Technical Bid will be invited from L1 only	

Any other information regarding e-tendering process can be had from the office of Deputy General Manager, Unit-Kathua, JKPC Ltd. Rail Head Complex, Jammu or e-tendering Cell, Jammu.

**Deputy General Manager,
Unit -5, Kathua.**

No: JKPC/Vth/1336-40

Dated: 12/11/2018

Copy to the: -

1. Managing Director JKPC Ltd, Srinagar for information.
2. Executive Director JKPC Ltd, Jammu for information.
3. General Manager (J), JKPC Ltd Jammu for information.
4. Deputy Director Information Jammu for information. It is requested that the notice may please be published in two leading English daily newspapers of State and one National Paper for its wide publicity.
5. E-Tendering Cell for uploading the Tender on www.jktenders.gov.in and www.jkpc.com

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OFFICE OF THE DEPUTY GENERAL MANAGER UNIT-Kathua, JKPCC Ltd- JAMMU.
NOTICE INVITING TENDER

E-NIT No: 17 of 2018-19 Dated :12/11/2018

INVITATION:

On behalf of Managing Director, Jammu & Kashmir Projects Construction Corporation Ltd., the Deputy General Manager, Unit- Kathua, JKPCC Ltd., Jammu invites e-tenders from OEM's or from authorize representative for ***Supply, Installation, Testing & Commissioning of Digital Lighting Control System at New Legislature Complex, Jammu.***

INSTRUCTIONS TO BIDDERS

- 1) Bid documents can be seen at and downloaded from the website <http://jktenders.gov.in> Bid documents contain qualifying criteria for bidders, specifications, bill of quantities, conditions and other details.
- 2) All the relevant original instruments (Hard copies) in respect of successful bidder only, shall be submitted to General Manager, JKPCC Ltd., Jammu.
- 3) Bid security in shape of CDR / FDR payable at Kathua pledged in favour of Deputy General Manager, JKPCC Ltd., Unit-Kathua, and shall be valid upto 01.12.2019 and cost of tender document shall be deposited into the Bank accounts by the bidder for which the following information can be used by the bidder.
 - i) Name of the Bank = J&K Bank Ltd
 - ii) Account title = Financial Controller JKPCC Ltd., (Current Account)
 - iii) Account No. = 0084010100002408
 - iv) Branch = New Secretariat Road Srinagar.
 - v) IFSC Code = JAKAOPROMPT
 - vi) Swift Code = JAKABBINRSGR – Optional
5. The bidders shall upload scanned copy of bank payment acknowledgement slip.
6. The bid for the work shall remain open for acceptance for a period of 90 days from the date of opening of bids. If any bidder/ tenderer withdraws his bid/ tender before the said period or makes any modifications in the terms and conditions of the bid, the said earnest money shall stand forfeited.
7. A bidder shall not be permitted to bid for works in the jurisdiction of officer responsible for award and execution of contract in which his or his spouse's near relative (defined as first blood relations, and their spouses) is posted as Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Assistant Engineer (both inclusive)
8. No engineer of gazette rank or other Gazetted officer employed in Engineering or Administrative duties in an Engineering department of the State Government is allowed to work as a contractor for a period of two years after his retirement from Government service, without Government permission. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the government as aforesaid before submission of the tender or engagement in the contractor's service.
9. Other details can be seen in the bidding documents.
10. Any other information regarding e-tendering process can be had from the Office Deputy General Manager, JKPCC Ltd., Unit -Kathua, contact Nos:9419151534.

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11. Rates quoted shall remain valid for 365 days from the date of issue of allotment.
12. Instruction to bidders regarding e-tendering process
 - a) The interested bidder can download the bid from the website <http://jktenders.gov.in>. Bidders are advised to download bid submission manual for the help of bid submission process from the Downloads option as well as from Bidders Manual Kit on website <http://jktenders.gov.in>
 - b) To participate in bidding process, bidders have to get digital signature certificate card as per information technology Act- 2000, to participate in online bidding. This certificate will be required for digitally signing the bid. Bidders can get above mentioned digital signature certificate card from any approved vendors. The bidders who already possess valid digital signature certificates card, need not to procure new digital signature certificate card.
 - c) The bidders have to submit their bids online in electronic format with digital signature. The bids proposed without digital signature will not be accepted
 - d) Bids will be opened online as per time schedule mentioned in the tender document.
 - e) Before submission of online bids, bidders must ensure that scanned copy of all the necessary documents have been attached with bid
 - f) The department will not be responsible for delay in online submission due to any reasons.
 - g) All required information for bid must be filled and submitted online. The bidder should recheck his online document before submission on line otherwise damaged/ corrupt document shall not be considered in any case.
 - h) The details of hard copies of original instruments in respect of cost of bid Documents & Earnest Money specified in the tender documents should be the same as submitted online otherwise tender will summarily be rejected.
 - i) Bidders are advised to use My Documents area on their used on JK tender e tendering portal to store important documents which are used in all tenders like, sales Tax clearance Certificate etc and attach these certificate as Non Statutory Documents while submitting their bids.
 - j) Bidders are advised not to make any change in BOQ contents or its name in no case they should attempt to create similar BOQ manually. The BOQ downloaded should be used for filling the net item rate inclusive of all taxes and it should be saved with the same with the same name as it contains.
13. Bidders are advised to scan their documents at 100 DPI (Dots per inch) resolutions with Black and white, JPEG scan properly convert scanned images to PDF
14. The guidelines for bidders to submit bid online can be downloaded from website <http://jktenders.gov.in> Dy. General Manager, JKPCCLtd. Unit -Kathua.

General Work-Experience:

The Applicant should have the Experience of Supply, Installation, testing and commissioning of one or more similar type of works in preceding five (5) years. The reference date for considering the period of preceding three years for experience is 31-03-2018.

Turnover:

The Applicant should have achieved an annual financial turnover of 50% of the advertised amount during any 3 years of proceeding 5 years. Further,

Selection Criteria:

The bidder should have successfully completed 1(One) work of 80% of total Value of the Estimated Cost.

Or

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The bidder should have successfully completed 2(Two) work of 60% of total Value of the Estimated Cost.

Or

The bidder should have successfully completed 3(Three) work of 50% of total Value of the Estimated Cost.

Note:

- a. Other income shall not be considered for arriving at Annual Turnover.
- b. As a proof of turnover, audited Profit & Loss account along with Statutory Auditor's report for last three years is required to be submitted. In case where audited profit and loss account for the immediately preceding year is not available, then a statement of profit and loss account duly certified by the statutory auditors with his comments shall be enclosed with the application along with the copy of appointment letter of the statutory auditor.
- c. Each bidder must produce:
 - The current income-tax challan, PAN No. valid OEM/ Electrical Contractor License and EPF Registration No.
 - A declaration that the information furnished with the bid documents is correct in all respects; and
 - Such other certificates as defined in the ITB. Failure to produce the certificates shall make the bid non-responsive.
- d. Each bidder must demonstrate:
Availability of technical personnel for Erection/ work
- e. Even though the bidders meet the above qualifying criteria, they are subject to be disqualified if they have :
 - Made misleading or false representations in the forms, statements, declarations and attachments submitted in proof of the qualification requirements; and/or
 - Record of poor performance such as abandoning the works, not properly completing the contract, inordinate delays in completion, litigation history, or financial failures etc.

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Essential Document for opening Technical Bid

A. Cost of tender document & EMD.

Bids must be accompanied by bid security in the shape of **CDR/FDR** payable at Jammu pledged in favour of **Accounts Officer, JKPCCLtd., Jammu** and shall be valid for 1 year and **cost of tender documents in shape of Demand Draft (Non-refundable) in the name of Dy. General Manager Unit Electric, JKPCCLtd., Jammu** payable at Jammu

B. Affidavit & Certificates.

1. **Copies** of original documents defining constitution/ legal status, place of registration and principal place of Business.
2. **Copies** of original Valid TIN. & PAN.
3. **Copy** of original valid OEM/Electrical Contractor License.
4. **Copy** of valid EPF Registration No.
5. The bidders shall provide **Affidavit** along with the bid document with the following undertakings:
 - a. That JKPCCLtd. is authorized to seek references from Bidders bankers.
 - b. That the bidder would be able to invest a minimum of 25% of Contract Value.
 - c. That the bidder is not black listed/debarred by any Govt. or Semi-Govt. Departments from participation in tendering.
 - d. That bid will remain valid for a period of ninety (90) days from the date of opening of Technical bids.
 - e. Affirming that the information submitted by the bidder with the bid / supporting documents is true & correct to the best of his knowledge and belief.
6. The Applicant should have achieved an annual financial turnover of 50% of the advertised amount during any 3 years of proceeding 5 years, duly attested by a Chartered Accountant.

The Applicant should have the Experience of executing one or more similar type of work of ***Supply, Installation, Testing & Commissioning of Digital Lighting Control System*** .

Experience Certificate issued by an engineer not below the rank of **Executive Engineer/s (Electrical)** from J&K State/CPWD/ Railways and other State/ Central Govt. Undertaking certify that:

- The bidder have successfully completed 1(One) work of 80% of total Value of the Estimated Cost. – or-
- The bidder have successfully completed 2(Two) work of 60% of total Value of the Estimated Cost. –or-
- The bidder have successfully completed 3(Three) work of 50% of total Value of the Estimated Cost.

Note:- *Even though the bidders meet the above qualifying criteria, they are subject to be disqualified if they have made misleading or false representation in the forms, statements and attachments submitted in proof of the qualification requirement and/or record of poor performance such as abandoning the works, not properly completing the contract, inordinate delays in completion, litigation history, or financial failures etc and/or participated in the previous bidding for the same work and has quoted unreasonably high bid prices and could not furnish rational justification to the employer.*

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General Conditions of Contract

1 TIME FOR COMPLETION

The TIME FOR COMPLETION of the Work, including time required for creation of construction facilities etc, shall be 45 Days from the date of award of contract.

2 CONSTRUCTION PROGRAMME:

The Bidder shall include in his Bid, the detailed construction programme for executing the work, describing broad Components, Methodology for ***Supply, Installation, Testing & Commissioning of Digital Lighting Control System at New Legislature Complex, Jammu.***

3 SITE VISIT

The bidder at his own cost/expenses is advised to visit and examine the Site of Works and its surroundings and obtain for himself on his own responsibility, all information that may be necessary for preparing the bid and entering into a Contract .

Bidders shall familiarize themselves especially with the rules and regulations, local Laws applicable to carry out such Work in J&K. The Owner shall not entertain any request for clarifications from the Bidders, regarding such statutory provisions.

4 BID DOCUMENTS

4.1 The Bid Documents shall comprise Instruction to Bidders (ITB), General Conditions of Contract and Special Conditions of Contract (SCC), Technical Specifications, BoQ and Appendix Forms.

4.2 Amendment to Bid Documents

(a) At any time prior to the deadline for submission of bids, the Owner may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the Bid Documents by issuance of an Addendum .

(b) The Addendum will be sent in writing or by fax/e-mail to all prospective bidders who have been issued the Bid Documents and will be binding upon them. Prospective bidders shall promptly acknowledge receipt thereof to the Owner.

(c) In order to afford prospective bidders reasonable time sufficient to take an Addendum into account in preparing their bids, the Owner may, at its discretion, extend the deadline for the submission of bids .

4.3 Preparation of Bids

(a) The bid shall be in English language only Failure to comply with this shall disqualify a bid .

(b) The Bid must contain the name and places of business of the person or persons making the bid and must be signed by the duly authorized representative with his usual signature and sealed by the Bidder the name(s) and designation(s) of persons signing should also be typed or printed below the signature.

(c) Bid by Companies/Firms/Parties must be furnished with full names of Companies/Firms and be signed by their legally authorised representative(s)

(d) Satisfactory evidence of authority of the person(s) signing on behalf of the Bidder shall be furnished with the bid.

(e) The Bidder's name stated on the proposal shall be the exact legal name of the firm/Company/Parties.

(f) Erasures or other changes in the Bid Document including the proposal documents shall be over the initials of the persons signing the bid.

Bids not conforming to the above requirements of signing are liable to be rejected.

4.4 Specific Issues

(a) A prospective bidder is expected to examine all instructions, terms & conditions, forms and Owner's Specifications/Requirements in the Bid Document and fully inform himself as to all the conditions and matters which may in any way affect the Works, his bid or the cost thereof Further, failure to furnish all information required by the Bid Document or

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submission of incomplete offers, conditional bids and proposals containing deviations from the Bid Document shall be rejected as non-responsive .

- (b) It will be imperative for each Bidder to fully inform himself of all local conditions and factors which may have any effect on the execution of the Works covered under Scope of Works and these Documents .

It would be understood and deemed that such factors have been properly considered by the bidder while submitting the bids Owner accepts no liability for the lack of such clear information or its effect on the cost of the Works to the Bidder .

- 4.5 Bidders shall assess their requirement of infrastructure and construction facilities to suit their methodology for successful implementation of the work .

Thus, while working out their bid price, the bidders are required to take into account entire scope of the work defined in Bid Documents.

5. PRICE BASES, CURRENCIES

Bidders shall quote their Prices in Indian Rupees in the Performa as given for Schedule of Prices/Bill of Quantity Bidders shall quote for the entire package on a single source responsibility basis. Bidders shall give "Bill of Quantities" and rates covering entire scope of the Works. The prices are fixed No price variation/adjustment shall be allowed in the currency of contract.

The Bidder shall quote his prices logically in bid form. The Bidder is advised to avoid offering of rebate/discount/loading. However, in case of exceptional circumstances, the rebate/discount/loading offered by the Bidder should be only in the Performa of Bill of Quantity. The bidder should offer the rebate on a percentage basis applied uniformly to all the Prices in the Performa given in BoQ.

The quoted rates should be inclusive of all duties, levies, taxes, costs like transportation, handling, insurance etc.

6. SUBMISSION OF BIDS AND

The priced Bill of Quantities/ Schedule of Prices to be submitted online only.

Deadline for Submission of Bids

Hard Copy of Bid shall be acknowledged from L1 only by the Owner at the address specified not later than the last date and time for submission of bids.

The Owner may, in exceptional circumstances and at its discretion, extend the deadline for submission of bids by issuing an Addendum, in which case all rights and obligations of the Owner and the bidders previously subject to the original deadline will thereafter be subject to the deadline as extended.

Modification, Substitution and Withdrawal of Bids

The bidder may modify, substitute, or withdraw his original bid after its submission but in any case before the official deadline for submission, if a corresponding written notice of the modification, substitution or withdrawal is received by the Owner prior to the deadline for submission of bids .

The bidder's modification, substitution, or withdrawal shall be prepared, sealed, marked, and delivered in with the outer and inner envelopes additionally marked "MODIFICATION", "SUBSTITUTION" or "WITHDRAWAL", as appropriate.

No bid shall be modified, substituted or withdrawn by the bidder after deadline for submission of bids.

Withdrawal of the Bid during the interval between the deadline for submission of Bids and expiration of the period of bid validity shall result in the forfeiture of the bid security .

7. GST REGISTRATION NUMBER:

The successful Bidder shall furnish to the Owner his GST number obtained from commercial taxes department under GST Act. No payment shall be made to the Contractor unless he submits his GST Number

8. VALIDITY OF BID

The bid should be kept valid for acceptance for a period of 90 days from the date of opening of Bids. In exceptional circumstances the Owner may solicit the bidder's consent to an extension of the

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period of the validity .The request and the response thereto shall be made in writing (including telefax). The Bid Security shall also be extended by the same period as the extension in the validity of the bid. A bidder accepting the request will not be permitted to modify its bid.

9. **OPENING AND EVALUATION OF BIDS**

i) **Bid Opening**

The Owner will open the bids, including WITHDRAWALS, SUBSTITUTIONS and MODIFICATIONS made hereof, in the presence of bidders' designated representatives who choose to attend, at the time, date, and location stipulated in the hereof. The bidders' representatives who are present shall sign a register evidencing their attendance. No Bid shall be rejected at the Bid opening except for the late Bids pursuant.

ii) Envelopes will be opened in the following order;

- a. Withdrawal notices
- b. Substitution
- c. Original bid along with modifications, if any
- d. Original bids for which an acceptable notice of withdrawal has been submitted shall not be opened.

All important information and any such other details as the Owner may consider appropriate, will be announced by the Owner at the Bid opening. This shall include but may not be limited to the Bidders' names, the Bid Prices including deviations, any discounts, withdrawals, substitutions and bid modifications, and the presence (or absence) of Bid Security .

Bids not opened and read out at bid opening shall not be considered further for evaluation, irrespective of the circumstances.

iii) **Bid Evaluation**

General

The Bids will be evaluated by the Owner to ascertain the lowest evaluated technically and commercially responsive bid for the complete scope of the proposal, as covered under these Bid Documents. The evaluation of techno-commercial bids shall be carried out on the techno-commercial submission of the bidder for the entire Scope of Work meeting Owner's Specifications/Requirements and Qualification Criteria as detailed in these Bid Documents.

Preliminary Examination:

The Owner will examine the bids to determine whether the documents have been properly signed, whether required sureties have been furnished, whether computational errors for price bids have been made and whether the bids are generally in order.

Prior to detailed evaluation, the Owner will determine the substantial responsiveness of each bid to the Bid Documents. A substantially responsive bid is one, which conforms to all the terms and conditions of the bidding documents, without material deviation or reservation. A material deviation or reservation is one (a) which affects in any substantial way the scope, quality, or performance of the Works or inconsistent with the Bidding Documents; (b) which limits in any substantial way, the Owner's rights or the Bidder's obligations under the Contract; or (c) Technical proposal is such, as if the bidder has not understood the work implementation (d) whose rectification would affect unfairly the competitive position of other bidders presenting substantially responsive bids . The Owner's determination of bid's responsiveness is to be based on the contents of the bid itself without recourse to extraneous evidence.

A bid determined as not substantially responsive will be rejected by the Owner and may not subsequently be made responsive by the bidder by correction of the non-conformity.

The Owner may waive any minor non-conformity or irregularity in a bid which does not constitute a material deviation provided such waiver does not prejudice or effect the relative ranking of bidder .

Correction of Errors

In the Bill of Quantities the rates shall be written both in words and in figures. Bidder shall also show the total on each page and the Grand Total of the whole Contract. Corrections, if any, shall be made by crossing out, initialing, dating and rewriting.

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If on check, found differences between the rates given by the contractor in words and figures or in the amount worked out by him in the Bill of Quantities and General Summary, the same shall be adjusted in accordance with the following rules:

- a) In the event of a discrepancy between description in words and figures quoted by a tenderer, the description in words shall prevail.
- b) In the event of an error occurring in the amount column of Bill of Quantities as a result of wrong multiplication of unit price and quantity, the unit price shall be regarded as firm and multiplication shall be amended on the basis of the price.
- c) All errors in totaling in the amount column and in carrying forward totals shall be corrected.
- d) The General Summary and the tendered sum shall be amended accordingly. The tendered sum so altered shall, for the purpose of tender, be substituted for the sum originally tendered and considered for acceptance instead of the original sum quoted by the Bidder.

10. COMPARISON OF BIDS

Prices quoted by the Bidder for Complete Scope of Work including defect liability period shall be Considered for Comparison of Bids .

Taxes and duties

The Bid Prices shall be inclusive of all taxes and duties .The effect of all applicable taxes, duties, other levies and charges etc should be ascertained by the bidder and included in his Bid Price.

11 AWARDS

The Owner will award the Works to the bidder whose bid has been determined to be substantially responsive to the Bidding Documents and who has offered the lowest Evaluated Bid Price .

12 NOTIFICATION OF AWARD (LETTER OF ACCEPTANCE)

Prior to expiration of the period of bid validity, the Owner will notify the successful bidder by tele fax confirmed by registered letter or courier that its bid has been accepted. This letter (hereinafter and in the Conditions of the Contract called the "Letter of Acceptance") shall specify the sum which the Owner will pay the Contractor in consideration of the execution and completion of the Works and the remedying of any defects therein by the Contractor as prescribed by the Contract.

13 PERMANENT ACCOUNT NUMBER (PAN):

Within 28 days from the date of issue of the Letter of Acceptance, the successful Bidder shall furnish to the Owner his Permanent Account Number issued by the Income Tax Authorities in India .No payment shall be made to the Contractor unless he submits his Permanent Account Number.

14 PERFORMANCE SECURITY:

Within a period of 21 days from the date of issue of Letter of Acceptance, the successful bidder shall furnish to the Owner, Bank Guarantee for amounts equal to **8 per cent (%)** of the Contract Price in the form Bid Security annexed in the List of Forms.

Failure of the successful bidder to comply with the requirement of Clause 15 shall constitute a breach of contract, cause for annulment of the award, forfeiture of the Bid Security, and any such other remedy the Owner may take under the provisions of the Contract.

15 CORRUPT OR FRAUDULENT PRACTICES

It is expected from the Bidders that they will observe the high standard of ethics during the procurement and execution of such Contracts. In pursuance of this policy:

(a) For the purpose of this provision, the terms set-forth below shall mean as under:

- (i) "**corrupt practice**" means the offering, giving, receiving or soliciting, directly or indirectly of anything of value to influence the action of a public official in the procurement process or in Contract execution;
- (ii) "**Fraudulent practice**" means a misrepresentation or omission of facts in order to influence a procurement process or the execution of a Contract
- (iii) "**Collusive practices**" means a scheme or arrangement between two or more bidders with or without the knowledge of the Borrower, designed to establish bid prices at artificial, non-competitive levels;

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(iv) **“Coercive practice”** means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in a procurement process, or affect the execution of a contract;

(b) A bid may be rejected by the Owner if it is determined at any stage that respective bidder has engaged in corrupt or fraudulent or collusive or coercive practices in competing for the Contract in question;

The Owner may declare a firm/Party ineligible, either indefinitely or for a stated period of time, to be awarded a Contract if it at any time determines that the firm /Party has engaged in corrupt or fraudulent or collusive or coercive practices in competing for, or in executing a Contract.

Representative of vendors, suppliers, contractors, consultants, service providers or any other agency (ies) doing any type of business with JKPC Ltd is expected and shall be responsible to ensure that there is no fraudulent act being committed in their areas of responsibility/ control. As soon as he/she comes to know of any fraud or suspected fraud or any other fraudulent activity must report such incident(s) Such reporting shall be made to the designated Nodal Officer(s), nominated in Project/ Corporate Centre The reporting of the fraud normally should be in writing In case the reporter is not willing to furnish a written statement of fraud but is in a position to give sequential and specific transaction of fraud/ suspected fraud, then the officer receiving the information/ Nodal Officer shall record such details in writing as narrated by the reporter.

16 Contract:

16.1 Following documents shall be attached/annexed to the Agreement and thus form part of the Contract;

- a) General Conditions of Contract.
- b) Bill of Quantities.
- c) Special Conditions of Contract.
- d) Technical Specifications
- e) Letter of Award.
- f) Critical conditions of the contract.
- g) Any other document forming part of the Contract.

16.2 In case of any discrepancy between the documents mentioned in Clause 16.1 above the order of documents shall be as follows:

- i. Letter of Award
- ii. Special Conditions of Contract.
- iii. General Conditions of Contract.
- iv. Technical Specifications
- v. Bill of Quantities.
- vi. Critical conditions of the contract.
- vii. Any other document forming part of the Contract.

17. PRICES:

17.1 The prices to be quoted by the intending tenderer shall include the supply, installation, testing and commissioning of works at the site, of all component, ancillary material and other items whatsoever required for carrying out the job to fulfill the intent and purposes as laid down in the Technical specifications.

17.2 The tenderer's price shall be deemed to include all components. The contractor shall also include, in his price, all taxes duties or other levies (viz. Excise duty, customs duty, works contract tax, sales tax, entry tax, octroi etc..) which are legally livable on supply of equipments& material and its Installation. Failure to include all livable taxes and duties will not entitle the contractor to any extra claims from the Engineer-Incharge. The contractor's rate shall remain firm and fixed during the currency of the contract.

17.3 The prices and unit rates quoted by the bidder in the bid shall be firm and deem to be adequate to cover the entire responsibility involved in the execution and completion of work. No Price

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Variation/adjustment is payable during the currency of Contract. The price shall not be subject to exchange rate variations. No increase due to change in daily wages of labour be paid, due to any reasons whatsoever.

- 17.4 The rates quoted by the Contractor shall be net so as to include all the requirements described in the contract agreement and no claim whatsoever due to fluctuations in the price of materials and labour will be entertained.
- 17.5 The contractor shall provide all equipments, instruments, labour and such other assistance required by the Engineer-in-charge for measurement of the works, materials etc.

18. Temporary Works

Before any temporary works is commenced the contractor shall submit at least 7 days in advance to the Engineer-in-charge for approval of complete drawings of all temporary works he may require for the execution of the works. The contractor shall carry out the modifications relating to strength, if required by the JKPC/Engineer-in-charge in accordance with the conditions of contract at his own cost. The contractor shall be solely responsible for the stability and safety of all temporary works and unfinished works and for the quality of the permanent works resulting from the arrangement eventually adopted for their execution. For the Civil works like cutting of walls for conduit works or any other job requirement with necessary repairs as per requirements at site including making well the same, the expenditure shall be borne by the agency/contractor. Contractor shall quote rates accordingly. Nothing extra shall be paid on this account.

19. Water, Power and Other Facilities:

- a) Raw water supply is available at site which the contractor can use for any constructional needs. However for drinking water Contractor shall have to make their own arrangement at their own cost.
- b) Metered JKPC power supply shall be made available to the contractor who shall have to pay the JKPC/Engineer-in-charge for energy consumed on per month basis. Generator back up if required shall have to be arranged by the contractor at their own cost.

20. Accommodation:

- a) The contractor shall provide and maintain all necessary offices, workshops, stores, shelters, sanitary facilities, canteens and other temporary structures for themselves in connection with the work at the site at their own cost after getting the approval from the JKPC.
- b) All temporary buildings and facilities as mentioned above shall be removed on completion of the work or at any other earlier date as directed by the JKPC.
- c) Watch & ward shall be responsibility of the contractor till the completion of job.

21. Facilities for contractor's employees

The contractor shall make his own arrangement for the housing and welfare of his staff and workmen including adequate drinking water facilities. The contractor shall also make the arrangements at his own cost for transport where necessary for his staff and workmen to and from site of work at his own cost.

22. Liquidation of damages

0.25% of contract value for every week of the delay after the schedule date of completion of work to the contractor will be charged. Total recovery amount shall be maximum upto 5%.

23. Disposal of Refuse

The contractor shall cart away all debris, refuse etc arising from the work from the site and deposit the same as directed by the Engineer-in-charge at his own cost. It is the responsibility of the contractor to obtain from the local authorities concerned to the effect that all rubbish arising out of contractor's activities at the construction site or any other off-site activities borrow pits has been properly disposed off.

24. Tools, Storage of Materials, Protective Works and Site Office Requirements

The contractor shall provide, fix up and maintain in an approved position proper office accommodation for the contractor's representative and staff which offices shall be open at all reasonable hours to receive instruction notices or communications and for storage of tools, etc and clear away the same on completion of the works and make good all work disturbed.

All drawings maintained on the site are to be carefully mounted on boards of appropriate size and covered with a coat of approved varnish. They are to be protected from ravages of termites, ants, and other insects and made available to the JKPC for inspection or such other purposes they may require.

The contractor shall provide at his own cost all artificial light required to complete the work within the specified time.

The contractor shall provide a suitable temporary hut for the watchmen and clear away the same when no longer required and to provide all necessary attendance, lights etc required.

The contractor shall arrange for temporary latrines for the use of workers and field staff and keep the same in a clean and sanitary condition to the satisfaction of the Public Health Authorities and shall cause such latrines and soil to be cleared away whenever necessary and shall make good all the works disturbed by these conveniences.

Every precaution shall be taken by the contractor to prevent the breeding of mosquitoes on the works during the construction, and all receptacles, cistern, water tanks etc used for the storage of water must be suitably protected against breeding of mosquitoes. The contractor shall indemnify the JKPC against any breach of rules in respect of anti-malarial measures.

The contractor shall not fix or place any placards or advertisement of any description or permit the same to be fixed or placed or upon any boarding gantry, building structures other than those approved by the JKPC.

Protective Measures: The contractor from time to time of being placed possession of the site must make suitable arrangements for watching, lighting and protecting the work, the site and surrounding property by day, by night, on Sundays and other holidays.

Contractor shall indemnify the JKPC against any possible damage to the building, roads, or members of the public in course of execution of the work.

The contractor shall provide necessary temporary enclosures, gates, entrances etc for the protection of the work and materials and for altering and adopting the same as may be required and removing on completion of the works and making good all works disturbed.

Storage of Materials: The contractor shall provide and maintain proper sheds for the proper storage and adequate protection of materials etc and other work that may be executed on the site including the tools and materials of nominated sub-contractors and remove same on completion.

So also, steel materials are to be stored above the ground level to prevent the same from getting rusted.

25. Tools:

All measuring tapes shall be of steel. Suitable scaffolding and ladders that may be required for safe working and taking measurement shall be supplied by the contractor.

Supervisors on the works shall always carry with them a one metre or two meter steel tape, a measuring tape of 30 meters, a spirit level and shall check the work to see that the work is being done according to the drawing and specifications. Supervisors shall also carry one test lamp with leads and one neon tester and necessary working instruments. The Site Engineer will use any or all measuring instruments or tools belonging to the contractors as he chooses for checking the works executed or being executed on the contract. The contractor should cover in his rates for making provisions for all reasonable facilities for the use of his scaffolding, tools and plant etc for their work.

26. Idle Labour:

Whatever the reasons may be no claim for idle labour, additional establishment cost of hire and labour charges of tools and plants would be entertained under any circumstances.

27. Variation in quantities:

The quantities for ancillary works given in the schedule and / or in drawings are for the guidance of the tenderer. The contractor shall be paid on the basis of actual quantities of works carried out. However the contractor shall check these quantities before quoting and will bring to the notice of Consultants / Engineer-In charge for any major variation. The contract shall be on works contract basis and the Client reserves the right to add / delete any items of work during the currency of contract.

When there is likelihood of major variation in the quantity of any item after the finalization of design/drawings, the Contractor shall submit the details of such variation with proper Justification for

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approval of Engineer-in-charge. Payment of such deviated quantities shall only be made after approval of Engineer-in-charge.

28. Excise Duty, Taxes, Levies etc

The contractor shall pay and be responsible for payment of all taxes, including GST & other taxes as applicable, duties, levies, royalties, fees, cess or charges in respect of the works including but not limited to GST, works contract tax, customs duty, excise duty and octroi, payable in respect of materials, equipment plant and other things required for the contractor. All of the aforesaid taxes, duties, levies, fees and charges shall be to the contractor's account and the JKPC shall not be required to pay any additional or extra amount on this account. If there occurs any Variation of taxes, duties, fees, levies etc or introduction of new Tax or duty or levy or cess imposed under any Statute or Law, after 15 days prior to last date of submission of Bids, during the currency of contract which causes additional or reduced cost to the contractor, the same shall be intimated by the contractor to the owner and shall be paid/recovered to/from the contractor.

29. Approved Make:

The Material/Equipment/Machinery to be supplied and installed for Electric system Works shall be of Approved make as specified in Technical Specifications. The List of Approved makes and manufacturers is mentioned in BOQ.

30. Working Drawings, Maintenance Manuals etc.:

On the award of the work, the contractor shall immediately proceed with the preparation of detailed shop drawings prepared on the computer through the Auto CAD system based on the architectural drawings and site measurement, detailing the components that are to be installed and the ancillary works that are to be carried out. Three sets of all such schematic drawings shall be submitted to the Engineer-In-charge, for their approval as provided in General Conditions of Contract to ensure that the works will be carried out in accordance with the specifications and drawings, including such changes as may have been mutually agreed upon. All the drawings shall be received by the Engineer incharge for their approval, within two weeks of the award of work. The approval of the drawings by the Engineer-In-charge shall in no way relieve the contractor from his obligations to provide a complete and satisfactory System and installation as per intent and purpose as laid down in the specifications. Any omissions and/or errors shall be made good or rectified whether or not the drawings are approved.

Prior to the completion of the work, the contractor shall furnish (4) four sets of a comprehensive manual, describing all components, furnishing a list of instructions for the operations and maintenance of the system.

When the Engineer-In-charge makes any amendments in the above drawings, the contractor shall supply two fresh sets of drawings with the amendments duly incorporated along with check prints for approval.

Within four weeks of approval of all the relevant shop drawings, the contractor shall submit four copies of a comprehensive variation in the quantity statement. The contractor shall also fix in the control room neatly typed and framed, instruction in details, for the starting and running of the system. Any special tools required for the operation or the maintenance of the system shall be supplied free.

31. Supply, Installation, Testing and Commissioning:

The contractor shall carry out the complete supply, installation, testing and commissioning. All work shall commence on previously prepared locations for the main and sub systems. All the materials shall be moved from their place of storage into the system by the contractor. The contractor shall make his own arrangement to off load materials received at respective Air/Rail/Road transport terminal points, dispatch to site and to store all material received at site. The Engineer-Incharge shall provide clear storage and installation space only. All installation tools and tackles as and when required to suit the installation programme shall be provided by the contractor. All consumables required for installations such scaffolding etc. shall be provided by the contractor. Protective and finish painting shall be carried out by the contractor. The contractor shall indicate the electricity requirements during installation. The contractor shall remove all the waste material or rubbish from and about the work site and leave the job thoroughly cleaned up and ready for use.

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32. Testing:

- 32.1 All types of routines and type tests as required shall be carried out at the works of the contractor or the manufacturers of the components. The routine tests will be carried out in presence of third party inspection viz. CEIL or CPRI in presence of Engineer in charge or his representatives. The inspection Certificate/Release note of the third party inspection agency should be finalized by Dy. General Manager Unit -Kathua, Jammu. The inspection charges should be borne by the Manufacturer/Contractor.
- 32.2 On the completion of the installation, the contractors shall arrange to carry out various initial tests as detailed in below, in the presence of and to the complete satisfaction of the Engineer-In-charge or their representatives. Any defects or shortcomings found during the tests shall be speedily rectified or made good by the contractor at his own expenses.
- 32.3 The initial tests shall include but not be limited to the following:
- 32.4 To operate and check the proper functioning of all electrically operated components.
- 32.5 On the satisfactory completion of all 'Initial' tests the work shall be considered to be 'virtually complete' for the purpose of taking over by the Engineer-Incharge.

33. Rejection of Defective System:

If on test any portion of the system or components are found to be defective or not fulfilling the intent or the meaning of the specifications, the same shall be replaced or repaired to the entire satisfaction of the Engineer In-charge.

In case the contractor fails to remove the defects, within a period considered reasonable, the Engineer In-charge reserves the right to take necessary remedial measures through other agencies and all expenses thus incurred would be recovered from the contractor.

The Engineer In-charge reserves the right to operate all the equipment and complete system whether or not the Equipment is taken over after the initial test and commissioning. Any defects found during the initial or running tests shall be removed at a suitable time as decided upon by the Engineer In-charge.

34. Maintenance of the system and training of personnel:

The contractor shall arrange to provide at no extra cost operation and comprehensive maintenance of the entire electrical system of the building, regularly for a period of 36 Months (Thirty-six) from the date of commissioning i.e defect liability period.

35. Completeness of the Works:

The contractor shall provide all the required materials, equipment, ancillary items etc. whether or not each and every item is mentioned in the specifications. Any shortcomings noticed at any stage shall be made good at no extra cost.

36. Warranty and Guarantee:

The contractor shall guarantee that all the material, machinery and components supplied, installed, fabricated, by him shall be free from defects due to faulty design material and/or workmanship, that the system shall perform satisfactorily and the efficiency and functioning system of the system and all the components shall not be less than the parameters laid down in the specifications and the performance shall be within the specified design limits. In case of any shortcoming the contractor shall replace the necessary components/items at no extra cost or alternately the Engineer In-charge shall be entitled to deduct a proportionate amount from payments due to the contractor.

The period of the guarantee shall be minimum of 36 Months/manufacturer's warranty (whichever is more) from the date of commissioning during which period any or all components found to be defective shall be replaced or repaired free of charge and any shortcomings found in the system functioning as specified shall be removed at no extra cost. The contractor shall provide the necessary personnel and tools for fulfilling the above guarantee.

If for any reason the commissioning of the system cannot be carried out due to reasons attributable solely to the Engineer In-charge, then the system shall carry a guarantee for a period of 36 Months from the date of 'virtual completion' - a date which shall be certified by Engineer In-charge.

If the defects are not removed within a reasonable time the Engineer In-charge may arrange to do so at the contractor's risk and cost, without prejudice to any other rights.

37. Safe custody and storage:

Safe custody of all equipments/items supplied by the contractor shall be his own responsibility till the final taking over by the Engineer In-charge. He should, therefore, employ sufficient staff for watch and ward at his own expenses. The Engineer In-charge may, however, allow the contractor to use the Equipment room/rooms etc. for temporary storage of his equipment if such spaces are ready and available.

38. Spares:

The Contractor guarantees to the Owner the supply of spares during defect liability period.

39. Operation and Maintenance (O&M):

The Contractor shall provide all inclusive Operation and Maintenance (O&M) of installed electric system during the defect liability period inclusive of all material, labour and any other costs, as specified in the Contract, after commissioning of Plant/system at no extra cost to the Owner.

40. Site Visit:

The bidders are strongly advised to visit and examine the existing infrastructure and obtain, on their own responsibility, all information that may be necessary for preparing the Bid and entering into a Contract. The costs of visiting the sites shall be at bidders own expenses. JKPCC Ltd will assist for site visit in working days (Monday – Friday) between 9.30 AM to 4.00 PM.

41. Labour laws and safety regulations:

The Contractor will be required to make good for any damage caused during the awarded work. Any injury / casualty to any skilled / unskilled worker during the work execution will be the entire responsibility of the Supplier / Vendor and your labour should be duly insured. Contractor will be responsible for the compliance of the provisions of the various central & State enacted labour laws whichever is applicable to workmen deployed by the contractor party in relation with the subject services. Following rules / regulations may be concerned in particular.

- Employees Provident Fund and Miscellaneous Provisions Act, 1952.
- Employees State Insurance Act, 1948.
- Payment of Wages Act, 1936.
- Minimum Wages Act, 1948.
- Equal Remuneration Act, 1965.
- Contractor Labour (Regulation and Abolition Act), 1970.
- Payment of Bonus Act, 1965.
- The Employee's Compensation Act, 1923.

Special Condition of the Contract

1. Penalty for delay in completion:-

0.25% of contract value for every week of the delay after the schedule date of completion of work to the contractor will be charged. Total recovery amount shall be maximum upto 5%.

2. Time extension:-

Suitable time extension shall be granted in case of increase in scope of work and in the event of delay beyond control of contractor to be determined by the department. The tender receiving authority reserves the right to accept or reject any tender or all tenders without assigning any reason thereof.

3. Restoration of work: -

On completion of contract the contractor shall be responsible to remove all un-used material and restore the site in its original position at his own cost.

4. Defect Liability period:-

The DLP shall be calculated from date of certified completion of work and period shall be 36 months from the certified date of completion by JKPCCLtd.

5. Safety

The contractor shall be responsible for safety of all men, material and machinery at site of work. He shall submit the insurance certificates in this regard within One month of date of allotment.

6. Discoveries

Anything of historical or other interest or of significant value unexpectedly discovered on the site shall be the property of the Govt.

7. Tests

The contractor shall be solely responsible for carrying out the mandatory tests required for the quality control at his own cost and shall submit a test report regarding the physical/ chemical properties as well as structural strength of material.

8. Termination

The employer may terminate the contract if the contractor causes a fundamental breach of the contract. Fundamental breach of contract will include:-

- i. Continuous stoppage of Work for a period of 15 days without authorization of Engineer in-charge.
- ii. Contractor is declared bankrupt.
- iii. Any evidence of involvement of contractor in corrupt practices.
- iv. Contractor delays the completion of work beyond stipulated time of completion.
- v. If In case contractor fails to start /complete the work, within the stipulated time period, his CDR/Earnest Money shall be forfeited after termination of the contract. Besides, defaulting contractor shall be debarred from taking works in JKPCCLtd., at least for two years and shall be recommended for blacklisting as well.

Pursuant to the process of termination of defaulted contract, the employer reserves the right to invite fresh tender for the balance work at the risk and cost of defaulter contractor

The date of start of the work shall be reckoned within 07 Days from the date of issuance of LOI/Contract allotment as the case may be.

9. MAJOR LABOUR LAWS APPLICABLE TO ESTABLISHMENT ENGAGED IN BUILDING AND OTHER CONSTRUCTION WORK:-

- a) Compliance with Labour Regulation Laws of J&K State.

10. Specification/Quality Control:-

All items of works shall conform to specifications as per BOQ

11. Insurance:-

Insurance cover to Labour / Machinery / Work / Plant material / Equipment by the contractor shall be mandatory.

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12. Laws Governing the Contract:-The contract shall be governed by Laws of the land.

13. Court's Jurisdiction:-In case of any disputes/differences between contractor and Department the jurisdiction shall be J&K State

14. All other terms and conditions are as same as are in vogue in JKPC Ltd.

15. Other conditions:

- i. The contractor/ agency failing to execute the work in part or in full. Action will be taken against him according to the following conditions:-
 - a. A registered notice or notices sent through special messenger by the Engineer I/c to the contractor for non-start of work will amount to breach of contract.
 - b. The corporation may execute the work left by the contractor at his risk and cost. Any additional amount involved for execution of work will be recovered from other claims/resources of the contractor available with the corporation.
 - c. In case contractor evades the receipt of notice or deliberately gives wrong address for the communication where it is not possible to deliver registered letter, the notice will be pasted on the entry gate of his premises in presence of a witness. This will be treated as notice being served upon the contractor.
- ii. Tenderer shall not be entitled for any claim what so ever on account of expenses incurred by him on submission of the tender.
- iii. All terms and conditions of NIT/ Agreement to be drawn by the contractor/ agencies shall be binding upon the contractor/ agencies as soon as the allotment of contract is awarded in favour of contractor/ agency. The terms and conditions contained in other similar nature of contracts of this corporation shall also be applicable.
- iv. Misconduct/ Misbehavior observed during the tender opening process, during the execution of work with any officer / official shall be dealt under rules. He shall be disqualified in the tendering process / his contract shall be liable for termination.
- v. The accepting authority reserves the right to accept or reject any or all the tender before or after their opening after assigning reason thereof. The allotting authority in view of exceptional circumstances reserves the right of granting the contract to any of the tenderer it deems proper in the interest of the work.
- vi. The successful tenderer will abide by all labour laws and will be personally responsible for any casualty/ eventuality/ accident during the period of contract. For such eventualities he will have to insure his all workmen and machinery deployed on the work.
- vii. The watch & ward of the material during execution shall be sole responsibility of the successful tenderer.

16. Performance security (unbalanced bids)

If the bid of the successful bidder is seriously unbalanced in relation to the Engineer's estimate of the cost of work to be performed under the contract the employer may require the bidder to produce detailed price analysis for any or all items of the bill of quantities to demonstrate the internal consistency of these prices with the construction methods.

In case the bid of the lowest bidder is found unbalance the successful bid shall have to produce additional performance security in the shape of CDR /FDR /BG within 21 days of opening of price bid as per the following break-up:

S.No	%-age of unbalanced bid with advertised cost	Additional performance security to be deposited
1	Upto & including 15% below	NIL
2	Greater than 15% below upto 30% below	3%
3	Greater than 30% below	5%

17. Deviation items:

No deviation items shall be executed by the contractor unless until it is approved in writing by the engineer-in-charge (i.e., Dy. General Manager).

18. Security Deposit

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- a) The earnest money of the successful tenderer shall be retained and released after the successful completion of work.
- b) Up-to 5% security deposit deductions shall be made from all interim bills including final bill.
- c) The security deposit at the credit of the contractor shall be refunded to the contractor after the date of expiry of defect liability period of 36 months from the date of taking over of the work and removal of defects after conducting necessary repair to the entire satisfaction of the Engineer-in-charge.
- d) The security deposit shall not bear any interest.
- e) The security deposit shall be liable to forfeit as per the discretion of the Engineer-in-charge if the contractor fails to carry out work or perform/ observe any of the conditions of the contract.

19. Time of completion

The time being essence of any contract, the work is to be completed within 45 days..

20. Replacement of defective work and material

The contractor shall also be personally liable for civil and criminal prosecution under law if the specifications of the materials used are found in contravention to the specification prescribed during execution of the work even after completion and finalization of the contract i.e., at any stage during the prescribed life of the structure.

The tenderers shall in their own interest examine the conditions of the contract and specifications of the work. They shall also inspect the site and satisfy themselves (on their own) as to the climate and other conditions prevailing at the site. The nature and extent of the work, all existing and required roads and other mean of communication and access to site, availability of housing and other facilities, availability of different material, labour and probable sites, for labour camps, stores and godowns etc. They shall themselves obtain all necessary information as to the risks, contingencies and other circumstances which may effect of influence their tender, No extra charges consequent to any misunderstanding or otherwise no on this account shall be allowed.

21. Fundamental breach of contract will include:-

- a. Continuous stoppage of Work for a period of 15 days without authorization of Engineer in-charge.
- b. Contractor is declared bankrupt.
- c. Any evidence of involvement of contractor in corrupt practices.
- d. Contractor delays the completion of work beyond stipulated time of completion.
- e. Pursuant to the process of termination of defaulted contract, the employer reserves the right to invite fresh tender for the balance work at the risk and cost of defaulting contractor.
- f. If in case contractor failed to start /complete the work, within the stipulated time period, his CDR/Earnest Money shall be forfeited after termination of the contract. Besides, defaulting contractor shall be debarred from taking works in JKPCCLtd. at least for two years.

g. Major Labour Laws applicable to establishment engaged in building and other construction Work:-

- i. Workmen compensation act 1923.
- ii. Payment of Gratuity Act 1972.
- iii. Employees P.F. and Miscellaneous Provision Act 1952.
- iv. Maternity Benefits Act 1951.
- v. Contract Labour (Regulation & Abolition) Act 1970.
- vi. Minimum Wages Act 1948.
- vii. Payment of Wages Act 1936.
- viii. Equal remuneration Act 1979.
- ix. Payment of bonus Act 1965.
- x. Industrial disputes Act 1947.
- xi. Industrial employment standing orders Act 1946.
- xii. Trade Union Act 1926.
- xiii. Child Labour (Prohibition & Regulation) Act 1986.

- xiv. Inter State Migrant workmen's (Regulation of employment & Conditions of service) Act 1979.
- xv. The Building and other Construction workers (Regulation of employment and Condition of service) Act 1996 and the Census Act of 1996.
- xvi. Factories Act 1948. & Compliance with Labour Regulation Laws of J&K State.

22. PAYMENTS SCHEDULE.

70% of Payment shall be released after delivery of product at site and 30% payment shall be released after successful commissioning of System.

Note:

- a) The cost of works already executed shall be deducted from the bill.
- b) Any item of work not included BoQ but found necessary shall be paid as per OEM rate list or LMR whichever applicable and the decision of Engineer I/C regarding rates shall be binding upon the Bidder.

23. DRAWINGS AND PHOTOGRAPHS OF THE WORKS

The contractor shall do photograph /video photograph of the site firstly before the start of the work, secondly mid-way in the execution of different stages of work and lastly after the completion of the work. No separate payment will be made to the contractor for this and shall submit a Hard copy and soft copy of the same to the Engineer-in-charge for record and reference.

The contractor shall not disclose details of drawings furnished to him and works on which he is engaged without the prior approval of the Engineer-in-Charge in writing. No photograph of the works or any part thereof or plant employed therein, except those permitted shall be taken or permitted by the contractor to be taken by any of his employees or any employees of his sub-contractors without the prior approval of the Engineer-in-Charge in writing. No Photographs /Video photography shall be published or otherwise circulated without the approval of the Engineer-in-Charge in writing.

TECHNICAL SPECIFICATIONS

PART 1 – GENERAL

The need of lighting control system arises when such a huge application area involves a number of lighting fixtures to be controlled efficiently.

Lighting control systems not only provide the flexibility of controlling the light as per the design and layout in such area, but also enhance the important aspects of energy conservation leading to reduced electricity consumption.

In the CORRIDORS, the dimmable ceiling lights shall turned On and Off based on the movement of the people through an ultrasonic wired sensor. If there is no movement it will be ON at 10% so there is never complete darkness, on sensing the movement it will turn the lights ON at 80% and subsequently dim it based on the Lux level set for maximum savings.

In COMMITTEE ROOMS on +1 level the dimmable ceiling lights would be turning on at maximum intensity of 70% of its total intensity. To measure the Lux in these areas daylight wired sensors would be provided in suitable locations.

In Toilets Areas lights shall be controlled by occupancy wireless sensors.

In all the areas of level 1, 2 & 3 like MEETING ROOMS, Entrance Lobby, CHAIRMAN CABIN, Hon Ministers rooms, waiting Lounges, PS rooms, Section rooms, Library, Assembly lobby, Assembly /Council Hall, Secretaries, Committee on public, etc. following system design shall be applicable.

A ceiling mounted wireless Occupancy sensor will be suggested which will switch all the dimmable lights as per the circuits and will also save energy by dimming the lights on the basis of desired lux level in these areas. It should also have a provision to manually override and control the settings through a wall mounted 8 button keypad/Wall station.

A ceiling mounted wireless daylight sensors have been suggested for the Chairman's Room at the +1 level and Executive Rooms on Entry Floor, which will switch all the dimmable lights as per the circuits and will also, save energy by dimming the lights on the basis of desired lux level in these areas. It should also have a provision to manually override and control the settings through a wall mounted 8 button keypad/Wall station.

The lighting system should also have the provision to integrate with the building management system through BACNET. It should also show the individual area light status on the Lighting management server so as to have efficient energy monitoring and control from one location.

1.1. SUMMARY

A. Section Includes:

1. Digital-Network Lighting Control System.

1.2. REFERENCES

Edit paragraphs below to include only those standards referenced elsewhere in this Section.

A. American National Standards Institute/Institute of Electrical and Electronic Engineers (ANSI/IEEE) (and)

1. C62.41-1991 – Recommended Practice for Surge Voltages in Low-Voltage AC Power Circuits.

B. ASTM International (ASTM)

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1. D4674 -02a Standard Test Method for Accelerated Testing for Color Stability of Plastics Exposed to Indoor Fluorescent Lighting and Window-Filtered Daylight.
- C. Canadian Standards Association (CSA).
1. CSA C22.2 # 14 Industrial Control Equipment
 2. CSA C22.2 # 184 Solid-State Lighting Controls
 3. CSA C22.2 # 156 Solid-State Speed Controls
 4. CSA C22.2 # 42.1-00 Cover Plates for Flush Mounted Wiring Devices
 5. CSA C22.2 # 42-99 General Use Receptacles
- D. International Electro technical Commission (IEC).
1. (IEC) 801-2 Electrostatic Discharge Testing Standard.
 2. IEC/EN 60669-2-1 switches for household and similar fixed electrical installations - electronic switches.
- E. International Organization for Standardization (ISO)
1. 9001:2000 – Quality Management Systems.
- F. National Electrical Manufacturers Association (NEMA)
1. WD1 (R2005) - General Color Requirements for Wiring Devices.
 2. WD6 – Dimensional Specifications.
- G. Norma Official Mexicana (NOM).
1. NOM-003-SCFI Products electrics - Specifications de seguridad (Electrical products - Safety Specifications)
- H. Underwriters Laboratories, Inc. (UL) ():
1. 94 – Flammability Rating

UL 489 is the UL Standard for Safety for Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures that Underwriters Laboratories uses to independently evaluate, test and List circuit breakers for use on lighting and other branch circuits in compliance with the NEC code. It is important that circuit breakers used for branch circuit over current protection are UL 489 listed to ensure that all NEC code requirements are met.
 2. 489 (2002) - Molded-Case Circuit Breakers, Molded-Case Switches, and Circuit-Breaker Enclosures.

UL 498 is the UL Safety Standard for line cord products and wall mounted receptacles.
 3. UL498 – Standard for Attachment Plugs and Receptacles.

UL 508 is the UL Standard for Safety for Industrial Control Equipment that Underwriters Laboratories uses to independently evaluate, test and List dimmer panels. The limited short circuit test required by this standard tests that the product fails safely in the event that the output terminals to the load are short-circuited. This is an important safety test.
 4. 508 (1999) - Standard for Industrial Control Equipment.

UL 514 is the UL Standard is the requirement for decorative wall plates used on dimmers, switches, and receptacles.
 5. UL514C – Standard for Non-metallic Outlet Boxes, Flush Device Boxes, and Covers.

6. 916 – Energy Management Equipment.
Emergency Lighting for Ballasts requires LUT-ELI
7. 924 (2003) - Emergency Lighting and Power Equipment
8. 935 (2005) - Fluorescent Ballasts
UL 1472 is the Underwriters Laboratories Standard for Safety of Solid State Dimming Controls that sets limits on the amount of DC voltage a dimmer may deliver to a magnetic ballast or transformer. UL Listed wall box dimmers must comply with this standard. This ensures that the dimmer will not overheat the transformer.
9. 1472 (1996) - Solid-State Dimming Controls.

1.3. SYSTEM DESCRIPTION

- I. Quantum includes computer-based software that provides control, configuration, monitoring, alerting and reports. System includes:
 - a. Lighting Management Panel
 - b. Light management computer
 - c. Light management computer software.
 - d. Energy savings display software
 - e. Low voltage [wall stations] [and] [control interfaces] [and] [sensors]
 - f. [Permanently installed occupancy/vacancy sensors] [and power packs]
 - g. [Receptacles and plugs] [and] [data, voice and cable jacks] [and] [screw less, seamless wall plates]

1.4. SUBMITTALS

- A. Specification Conformance Document: Indicate whether the submitted equipment:
 - a. Meets specification exactly as stated.
 - b. Meets specification via an alternate means and indicate the specific methodology used.
- B. Shop Drawings; include:
 - a. Schematic (one-line diagram) of system.
- C. Product Data: Catalog cut sheets with performance specifications demonstrating compliance with specified requirements.
- D. Sequence of Operation to describe how each area operates and how any building wide functionality is described.

PART 2– PRODUCTS

1.5. DALI Controller

- A. DIN-rail mounted controller for DALI-compliant Digital Addressable loads. It provides DALI bus power and control for two independent DALI loops with up to 64 ballasts each
 1. Provides power for either one or two loops of DALI compliant digital addressable loads (up to 250 mA per loop).
 2. Each DALI Loop can control a maximum of 16 zones.
 3. Power failure memory retains control unit programming in the event of a power loss.

Retain the article below if power interfaces will be included to meet project requirements. Edit paragraphs below based on which power interface types are necessary to suit project requirements.

Delete article below if no power interfaces will be necessary to meet project requirements.

Localized multi-zone control (LEDs & raise/lower buttons) used in applications where localized adjustability in the lighting or shade level is desired. See the following link for additional information:

1.6. POWER MODULES

A. Preset lighting control with zone override:

1. Intensity for each zone indicated by means of one illuminated bar graph per zone.
2. The information screen on the GRAFIK Eye displays a user customizable name or description. When the user presses a zone or scene button, the information screen displays the given zone or scene name.
3. User-programmable zone and scene names.
4. An astronomical time clock automatically calculates the sunrise and sunset for any given location in the world. The user can define automatic events in relation to daily sunrise and sunset times. For example, the lights can turn on 30 minutes before sunset each day and turn off 30 minutes after sunrise each day. Astronomical time clocks also automatically adjust for daylight savings time, allow for special programming for weekends, holidays, and special events.
5. Astronomical time clock and programmer interface
 - a. Provide access to:
 - 1) Scene selections.
 - 2) Fade zone to a level.
 - 3) Fine-tuning of preset levels with scene raise/lower.
 - 4) Lock out scenes and zones.
 - 5) Fine-tuning of light levels with individual zone raise/lower.
 - 6) Terminal block for wired infrared signal input.
 - 7) Enable/disable wall station.
6. Light intensity with real time energy savings by digital display.
7. Fade time indicated by digital display for current scene while fading.
8. Integral wide angle infrared receiver.
9. For temporary local overrides, individual raise/lower buttons to allow zones to be adjusted without altering scene values stored in memory.
10. Control of digital fluorescent dimming ballasts requires the ability to address, program, and assign zone and sensor control to the digital fluorescent loads. Doing so, can be achieved directly from the integral power and control module. Direct control of 120V, 277V and/or 220/240V lighting usually requires a power interface that couples both power and control. With the integral digital ballast control output, no additional interfaces are required.
11. [Direct low-voltage control of digital ballasts (120V, 220/240V, and/or 277V lighting):
 - a. Electronically link a digital fluorescent lighting ballast to a zone for both dimming and turn on/off
 - b. Electronically assign daylight sensors to digital ballasts and line voltage dimmers for proportional daylight harvesting
IEC 60929 is a standard for electronic fluorescent ballasts, and is used by other lighting equipment controlled by low voltage signals including LED drivers

and low voltage controlled neon. It defines a specific method for digital control.

- c. Single integral controller with Class 1 or Class 2 isolated digital output signal conforming to IEC 60929; capable of direct (no-interface) control.]

1.7. DIMMING BALLAST AND SWITCHING MODULES

A. General

- 1. Continuous 5-Wire signal dimming to electronic dimming ballast.
- 2. If power is interrupted and subsequently returned, lights automatically return to the setting prior to power interruption.

EcoSystem ballasts are field programmable to listen to up to 32 occupant sensors, 64 personal control inputs, and 2 daylight sensors. Each ballast can be configured to respond independently to each of these inputs without knowing how the system will be configured during the design phase. Moreover, such flexibility allows for system modification via programming in lieu of wiring after installation.

Conventional load shedding systems require a central processing system to implement the control strategy. They can also be limited in their performance when the load shedding signal is sent to a dimmed circuit. For example, if a 10 percent load shedding command is sent to a circuit dimmed at 80 percent, the circuit would not respond to the command because it is already operating below the limit set by the load shedding command.

EcoSystem decentralizes the processing capabilities to each ballast or ballast module eliminating the need for a central processing system, complex programming and commissioning and associated costs.

- 3. Responds to digital load shed command
 - a. Sets high end trim.
 - b. Automatically scales light output proportional to load shed command.
 - 1) Example: If light output is at 30 percent and a load shed command of 10 percent is received, the ballast automatically sets the maximum light output at 90 percent and lowers current light output by 3 percent to 27 percent.
- 4. Electrical: Dimmer to meet limited short circuit test as defined in UL 20.

Miss-wiring, control wires, and/or lamp wires can cause modules to fail Provide integral fault protection to prevent ballast module failure in the event of a mis-wire.

2-Amp Dimming Ballast Module (BMF): – Ballast module is used to integrate up to 2 amps of dimmable blast 3-wire electronic dimming ballast into an Eco System control system as a single zone. BMF designed for installation within a lighting fixture or other electrical enclosure.

1.8. LIGHTING MANAGEMENT PANEL

- A. Provide Lighting Management Panel in a pre-assembled NEMA listed enclosure with terminal blocks listed for field wiring.
- B. Enables Light Management software to control and monitor dimming ballast, and sensors.
 - 1. Lighting Management Panel utilizes Ethernet connectivity to Q-Manager.
 - a. Dedicated Network Environment is used to connect Q-Manager with Lighting Management Panel s.

- C. Integrate control station devices, power panels, shades, preset lighting controls, and external inputs into single customizable, multiple failsafe lighting control system, operable manually, automatically or through computer control.
- D. Astronomical time clock.
- E. Maintains a backup of the programming in a non-volatile memory capable of lasting more than ten years without power.

1.9. Lighting Management System Software

The following statement ensures a single point of contact for system operation. Some interaction between hardware and software requires a high level of integration and compatibility.

- A. Provide system software license and hardware that is designed, tested, manufactured, and warranted by a single manufacturer.

The following would require training or service call to the manufacturer.

- B. Configuration Setup
 - 1. Used to make system programming and configuration changes
 - 2. Windows based, capable of running on either central server or a remote client over TCP/IP connection
 - 3. Allow [manufacturer][user] to:
 - a. Capture system design.
 - 1) Geographical Layout
 - 2) Load Schedule Zoning
 - 3) Shade Grouping
 - 4) Equipment Schedule
 - 5) Equipment assignment to lighting management panels
 - 6) Day lighting design
 - b. Define the configuration for the following in each area:
 - 1) Lighting Scenes
 - 2) Control Station Devices
 - 3) Interface and Integration Equipment
 - 4) Occupancy/After Hours
 - 5) Partitioning
 - 6) Day lighting
 - 7) Emergency Lighting
 - 8) Nite lights
 - c. Start-up
 - 1) Addressing
 - 2) Day lighting
- C. Control and Monitor
 - 1. Basic System View
 - a. The Q-Admin system navigation and status reporting is performed using a tree view of the building.
 - 2. Optional Graphical Floor plan View
 - a. The Q-Admin system navigation and status reporting is performed using customized CAD based drawings of your building. Pan and Zoom feature

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allows for easy navigation. Basic system view is always available.

3. Control of Lights
 - a. Area lights can be monitored for on/off status.
 - b. All lights in an area can be turned on/off or sent to a specific level.
 - c. For areas that have been zoned, these areas may be sent to a predefined lighting scene, and individual zones may be controlled.
 - d. Area lighting scenes can be modified in real-time, changing the levels zones go to when a scene is activated.
4. Occupancy
 - a. Area occupancy can be monitored.
 - b. Area occupancy can be disabled to override occupancy control or in case of occupancy sensor problems.
 - c. Area occupancy settings including level lights turn on to when area is occupied and level lights turn off to when area is unoccupied can be changed in real-time.
5. Day lighting
 - a. Day lighting can be enabled/disabled. This can be used to override the control currently taking place in the space.
 - b. Daylight target levels can be changed for each daylight area. This is particularly useful when new departments move into a space.
6. Load Shedding
 - a. Load shedding allows the building manager to monitor whole building lighting power usage and apply a load shed reduction to selected areas, thereby reducing a building's power usage.
7. Scheduling
 - a. Schedule time of day and astronomic time clock events to automate functions for lights and shades.
8. Reporting allow the building manager to gather real-time and historical information about the system as follows:
 - a. Energy Reports – Show a comparison of cumulative energy used over a period of time for one or more areas.
 - b. Power Reports – Show power usage trend over a period of time for one or more areas.
 - c. Activity Report – Shows what activity has taken place over a period of time for one or more areas. Activity includes occupant activities (i.e. areas going occupied/unoccupied, wall controls being pressed), building manager operation (controlling/changing areas using the control & monitor tool), and device failures (keypads, ballasts, etc. not responding).
 - d. Lamp Failure Report – Shows which areas are currently reporting lamp failures.
9. Diagnostics
 - a. Diagnostics allows the building manager to check on the status of all equipment in the lighting control system. Devices will be listed with a reporting status of OK, missing, or unknown.
10. Administration
 - a. Users – Allows new user accounts to be created and existing user accounts to be edited.
 - b. Publish Graphical Floor plan – Allows admin user to publish new graphical floor plan files, allowing users to monitor the status of lights, occupancy of areas, and day lighting status.

- c. Back-up Project Database – Allows admin user to back up the project database. The project database holds all the configuration information for the system, including keypad programming, area scenes, day lighting, occupancy programming, emergency levels, night lights, and time clock. The Control and Monitor tool can be used to adjust some of these settings, and thus it is important to back-up the project database prior to changing settings in the Design and Setup tool.
11. Publishes Project Database – Allows the admin user to send a new project database to the server and download the new configuration to the system. The project database holds all the configuration information for the system, including keypad programming, area scenes, daylighting, occupancy programming, emergency levels, night lights, and timeclock.

1.10.

SENSORS

A. Ceiling Occupancy/Vacancy Sensors

Ceiling mount sensors using ultrasonic technology to sense occupancy by bouncing ultrasonic sound waves (32kHz – 45kHz) off objects in a space and detecting a frequency shift between emitted and reflected sound waves. Ultrasonic sensors are good at detecting minor motion and do not require an unobstructed line-of-sight. Ceiling mount sensors are recommended for larger open spaces with ceilings less than 12 ft. high.

Ceiling and wall mount sensors using passive infrared (PIR) technology to sense occupancy by detecting the difference between heat emitted from the human body in motion and background space. PIR sensors are good at detecting major motion and require an unobstructed line-of-sight for accurate detection. Ceiling mount sensors are recommended for larger open spaces with ceilings less than 12 ft. high. Wall mounted sensors are recommended for spaces with pendant fixtures, ceiling fans, or ceiling more than 12 ft. high.

Ceiling and wall mount sensors using both passive infrared and ultrasonic technologies for sensing occupancy providing maximum reliability. Ceiling mount sensors are recommended for larger open spaces with ceilings less than 12 ft. high. Wall mounted sensors are recommended for spaces with pendant fixtures, ceiling fans, or ceiling more than 12 ft. high.

B. Interior Daylight Sensors

Class 2 devices are low voltage and easy to wire. Conduit, trays, and junction boxes can typically be eliminated. Check with your local electrical code. Class 2 wiring allows for a less expensive installation and flexibility to relocate sensors as building needs dictate.

1. Use Class 2 wiring for low voltage communication
2. Can be replaced without reprogramming
3. Open-loop basis for daylight sensor control scheme
4. Stable output over temperature from 0° to 40° C
5. Partially shielded for accurate detection of available daylight to prevent fixture lighting and horizontal light component from skewing sensor detection
6. Provide linear response from 0 to 500 foot-candles

7. Integral IR receiver for personal control
8. Constructed with plastic meeting UL94 HB
9. Mountable on lighting fixtures or recessed acoustical ceiling tiles

Glue or other chemical adhesives can become caustic or brittle at high temperatures. EcoSystem daylight sensors and infrared receivers are constructed without the use of glue or adhesives to prevent part separation or noxious gas emissions

10. Constructed via sonic welding
11. Color:

PART 3 – EXECUTION

1.11. INSTALLATION

- A. Install equipment in accordance with manufacturer's installation instructions.
- B. Provide complete installation of system in accordance with Contract Documents.
- C. Provide dedicated network between Server computer and Lighting Management Panels.
- D. Provide equipment at locations and in quantities indicated on Drawings. Provide any additional equipment required to provide control intent.

In order for the system to be fully commissioned and operating to specification, a database will need to be created. It is critical that the manufacturer receive information on load and control functionality so that the database can be written and fully tested by the manufacturer.

- E. Define each dimmer's/relay's load type, assign each load to a zone, and set control functions.

In order for the exterior daylight sensor to respond to daylight during the entire daylight period, the sensor should face north so that in the morning it will see daylight from the east and in the evening it will see daylight from the west. Directing the sensor due north also minimizes direct lighting exposure to the sensor which could overload the sensor.

- F. Mount exterior daylight sensors to point due north with constant view of daylight.

Interior sensor work mainly with diffused light, as such, they have a much higher lighting gain than exterior sensors. Electric light sources can affect these sensors unless the sensors are shielded from the light given off by electric light sources.

- G. Ensure that daylight sensor placement minimizes sensors view of electric light sources; ceiling mounted and fixture-mounted daylight sensors shall not have direct view of luminaries.

Retain paragraph below if an Integration Meeting is required to meet project requirements. Delete paragraph if an Integration Meeting is not required to meet project requirements.

- H. Systems Integration:

1. Equipment Integration Meeting Visit
 - a. Facility Representative to coordinate meeting between Facility Representative, Lighting Control System Manufacturer and other related equipment manufacturers to discuss equipment and integration procedures.

1.12. SERVICE AND SUPPORT

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A Digital-Network Lighting Control System requires multiple site visits for proper startup. The first site visit ensures that the contractor is trained to install the system correctly. The second visit starts up the system and ensures that the system is operating per specification. The third visit trains the owner/end user on system operation and functionality.

A. Startup and Programming

1. Provide factory certified field service engineer to make minimum of three site visits to ensure proper system installation and operation under following parameters
 - a. Qualifications for factory certified field service engineer:
 - 1) Minimum experience of 2 years training in the electrical/electronic field.
 - 2) Certified by the equipment manufacturer on the system installed.
 - b. Installation of wiring :
 - 1) Low voltage wiring requirements.
 - 2) Separation of power and low voltage/data wiring.
 - 3) Wire labeling.
 - 4) Lighting Management Panel locations and installations.
 - 5) Control locations.
 - 6) Computer jack locations.
 - 7) Load circuit wiring.
 - 8) Network wiring requirements.
 - 9) Connections to other equipment.
 - 10) Installer responsibilities.
 - 11) Power Panel locations.
 - c. Installation of Network Lighting Control System:
 - 1) Verify connection of power wiring and load circuits.
 - 2) Verify connection and location of controls.
 - 3) Energize Lighting Management Panels and download system data program.
 - 4) Address devices.
 - 5) Verify proper connection of panel links (low voltage/data) and address panel.
 - 6) Download system panel data to dimming/switching panels
 - 7) Check dimming panel load types and currents and supervise removal of by-pass jumpers.
 - 8) Verify system operation control by control.
 - 9) Verify proper operation of manufacturers interfacing equipment.
 - 10) Verify proper operation of manufacturers supplied PC and installed programs.
 - 11) Configure initial groupings of ballast for wall controls, daylight sensors and occupant sensors.
 - 12) Initial calibration of sensors.
 - 13) Obtain sign-off on system functions.
 - d. Educate Owner's representative on system capabilities, operation and maintenance.

QUALIFICATION FORMS

APPLICATION FORM - 1
General Information

PAGE ____ OF ____ PAGES

1.	Name of firm	
2.	Head office address	
3.	Telephone Fax Email	
4.	Contact Person(s) Name Title/Position	
5.	Place of incorporation / registration Date	
6.	Legal status of firm	
7.	Field of specialty in business	
8.	Number of persons	

Date _____

Signature _____

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Name of the Applicant

General Work-Experience:

1. Annual Turnover

The information supplied should be the annual turnover of the Applicant (separately for each partner of a joint venture/ each member of a consortium), in terms of the amounts paid by the clients for each year in the last five (5) years. Unless specifically asked for, Applicants need not to enclose testimonials, certificates, and publicity material with their applications; they will not be taken into account in the evaluation of qualifications.

Fiscal Year	Turnover (unit)
1.	
2.	
3.	

Fiscal year begins on _____ in each calendar year.

2. Selection Criteria:

Experience as Contractor (relevant categories of works) completed in the last Five(5) years to demonstrate the Applicant's business experience should be listed in separate sheets in a form as shown below:

No.	Name of Project	Role of the Applicant (sole contractor, or partner in JV/Consortium)
1		
2		
3		

Date _____ Signature _____

NB : To please attach detailed data sheet wherever possible.

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Current Contract Commitments/ Works in Progress

Name of Applicant _____

Applicants shall provide detail about current List of projects on which he is working

Name of contract	Description of works	Stipulated date of completion
1.		
2.		
3.		
4		
5		
6.		
7.		
8.		
9.		
10.		

Date _____

Signature -----

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AFFIDAVIT

1. I, the undersigned, do hereby certify that all the statements made in the required statements are true & correct.
2. The undersigned also hereby certifies that neither our firms M/s _____ have abandoned any work in JKPCC Ltd. or any other Department nor any contract awarded to us for such works have been rescinded, during last five years prior to the date of this bid.
3. The undersigned hereby authorizes (s) and request (s) any bank, person, firm or corporation to furnish pertinent information deemed necessary & requested by the department to verify this statement or regarding any (our) competence and general reputation.
4. The undersigned understands and agrees that further qualifying information may be requested and agrees to furnish any such information at the request of the department/project implementing authority.

(Signed by an Authorized Officer of firm)

Title of Officer

(Name Firm)

(Date)

TENDER PROFORMA OF BID

Managing Director,

JKPCC Ltd.,

Jammu.

Sub: **Supply, Installation, Testing & Commissioning of Digital Lighting Control System at New Legislature Complex, Jammu.**

Sir,

This has reference to above mentioned NIT and our offer against the same is as under:

1. I/We hereby affirm that I/We have read and have fully understood all terms, conditions and technical specifications of tender document.
2. I/We hereby offer to supply genuine goods and material at the rates and quantities as described in our subject offer and shall execute the work(s) truly and faithfully within the time specified and set forth in the aforesaid offer. The goods and material to be supplied will be of the quality answerable in every respect with our offer / tender quoted above.
3. I/We shall be responsible for all complaints as regard the quality of material and all material and equipment shall comply in all respects with the requirement of quoted standard specifications.
4. I/We do hereby certify that the material and equipment offered are free from legal encumbrances and any claim regarding infringement and any patent of country of origin or India and shall be defended by us at our own cost and damages/ cost, if forwarded against purchaser in such a suits shall be borne by us.
5. I/We shall be hereby responsible for all complaints as regards quality of the material/ bad workmanship and for all such complaints the decision of the Corporation will be final and binding on us.
6. I/we enclosed a DD No. :_____ dt:_____ for the prescribed amount of Rs:_____(Rs:_____)drawn in favour of "_____ "as Cost of Tender Document and CDR/FDR:_____ dt:_____ for the prescribed amount of Rs:_____ (Rs:_____) drawn in favour of "_____ "as earnest money and as required in terms of tender specification. I/we fully understand that in the event of my / our tender being accepted, the earnest money shall be returned back to me after successful completion of the work.
7. I/we shall have no claims to the refund of the earnest money prescribed against this tender in the event of my / our non-compliance of the work order, provided such order is placed within the period of validity of my / our tender as indicated in paragraph 10 below.
8. I/we further understand that my earnest money will stand forfeited even if I withdraw my tender at any stage during the currency of the period of validity.
My/our tender shall remain valid for a period of 90 days from the date of opening of the tender against the **E-NIT No: 17 of 2018-19 Dated :12/11/2018**
9. My/our tender along with the terms and conditions with relevant columns and annexure duly filled in under my / our attestation and with each page of the tender papers including the enclosed terms and conditions signed by me / us (in the capacity of sole owner / general or special / attorney, in proof of which power of attorney is attached) is submitted for your favorable consideration.
10. I/we have read the enclosed terms and conditions carefully and have signed the same in token of their absolute and unqualified acceptance. My/our tender constitute a "firm" offer under the J&K contract Act and is open to an acceptance, in whole or in part. My/our offer, if accepted on the attached terms and conditions will constitute a legal binding contract and shall operate as contract as defined in the J&K Contract Act and the Sales of Goods Act.
11. I/We understand that Managing Director, JKPCC Ltd., reserves the right to accept or reject the tender without giving any reason thereof.

Thanking you,

Yours faithfully

Signature

Name & Full address of tenderer with stamp

Place

Date.....

Sig. Of Bidder

**Bid Security Forms
Bank Guarantee**

Date: _____

(Name of Contract)

To: (Name and address of Employer)

WHEREAS (name of Bidder) (hereinafter called "the Bidder") has submitted its Bid dated (date of bid) for the performance of the above-named Contract (hereinafter called "the Bid")

KNOW ALL PERSONS by these present that WE (name of Bank) of (address of bank) (hereinafter called "the Bank"), are bound unto (name of Employer)(hereinafter called "the Employer") for the sum of: (amount), for which payment well and truly to be made to the said Employer, the Bank binds itself, its successors and assigns by these presents.

THE CONDITIONS of this obligation are as follows:

1. If the Bidder withdraws its Bid during the period of bid validity specified by the Bidder in the Bid Form, or adopts corrupt and fraudulent practices.
2. If the Bidder, having been notified of the acceptance of its Bid by the Employer during the period of bid validity
 - a) Fails or refuses to sign the Contract Agreement when required, or
 - b) Fails or refuses to submit the performance security in accordance with the bidding documents or.
 - c) Adopts corrupt or fraudulent practices.

WE undertake to pay to the Employer up to the above amount upon receipt of its first written demand, without the Employer having to substantiate its demand, provided that in its demand the Employer will mention that the amount claimed by it is due , owing to the occurrence of one or both of the two above-named CONDITIONS, and specifying the occurred condition or conditions.

This guarantee will remain in force up to and including (date 90 days after the period of bid validity), and any demand in respect thereof must reach the Bank not later than the above date.

For and on behalf of the Bank

in the capacity of Common Seal of the Bank

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