(A Government of India Enterprise) P.O. Duliajan, Pin – 786602 Dist-Dibrugarh, Assam

CORRIGENDUM NO. 4

Corrigendum No. 4 dated 09.08.2023 to IFB No. CDI3751P24 for "Hiring service for Flood light illumination of Nehru Maidan, Duliajan.

This Corrigendum is issued to notify the following:

- 1. Revised BEC BRC document has been uploaded in place of existing.
- 2. ANNEXURE-B has been newly incorporated.
- 3. Following are the changes made in the revised BEC BRC from that of the original BEC BRC of the tender.:

BEC Clause	Approved BEC BRC	Revised BEC BRC
Sl. No.	inpproved ble bite	NOTISCE DEC BIO
1.2.1	Clause no. was 1.2.1	Revised as 1.2.2
	Bidder must have experience of successfully completing at least one SIMILAR work of minimum value Rs. 1,25,00,000.00 (Rupees One Crore Twenty- five Lakh) only in previous 07 (seven) years reckoned from the original bid closing date with PSUs / Central Government / State Government Organization / Public Limited Company.	Bidder must have experience of successfully completing at least one work of Designing , erecting and commissioning of outdoor stadium mast lighting with minimum average lux level (horizontal) of 500 in previous 07 (seven) years reckoned from the original bid closing date with PSUs / Central Government / State Government Organization / Public Limited Company.
1.2.2	Clause no. was 1.2.2 The Bidder must be OEM (Original Equipment manufacturer) of stadium mast luminaries. They must submit a self-certified document in support of the same. OR	Revised as 1.2.1 (A) and 1.2.1 (B) (A) The Bidder must be OEM (Original Equipment manufacturer) of stadium mast luminaries. They must submit a self-certified document in support of the same. OR (B) The bidder must be Authorized Business partner/Authorized dealer/Authorized system integrators/Implementers of OEM.
	The bidder must be Authorized Business partner/Authorized dealer/Authorized system integrators/Implementers of OEM.	If the bidder is authorized Business partner or authorized dealer/authorized system integrators or implementers of OEM, such bidders shall also submit a certificate as per the enclosed format as ANNEXURE-A issued by the OEM authorising them to participate

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	If the bidder is authorized Business partner or authorized dealer/authorized system integrators or implementers of OEM, such bidders shall also submit a certificate as per the enclosed format as ANNEXURE-A issued by the OEM authorising them to participate in the Tender. Any bid not	in the Tender. Any bid not meeting this requirement shall be straightway rejected.
	meeting this requirement shall be straightway rejected.	
Notes to 1.2.1 (B)	Not there	i. Offers of those bidders who themselves do not meet the experience criteria as stipulated in Clause Nos. 1.2.2 can also be considered provided the Bidder is an Authorized Business partner/Authorized dealer/Authorized system integrators/Implementers of OEM who meets the experience criteria as stipulated in Clause 1.2.2. Such bidder shall have
		experience of "Successfully
		implementing at least one work of area lighting/high mast lighting" in previous
		07 (seven) years reckoned from the original bid closing date with PSUs / Central Government / State Government Organization / Public Limited Company. However, the respective OEM should on its own meet the experience criteria as stipulated in the BEC Clause 1.2.2 above and should not rely on any other company or through any other arrangement like Technical Collaboration agreement etc. for meeting the experience criteria. ii. The Supporting Company (OEM)
		shall not be allowed to quote separately/independently/or through any other

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		arrangement like part of any other JV/Consortium against this tender. All the bids received in such case shall be summarily rejected. Further, all bids from parties with technical support from the same OEM shall be rejected.
1.2.4	The Bidder shall submit, along with the bid, the LM 79 & LM 80 report from manufacturer's NABL approved test house along with the bid for both fittings and driver of the offered Luminaire.	The Bidder shall submit LM 79 & LM 80 test report, technical data sheet of the offered items along with the bid. LM-79 certificate shall be from manufacturers own lab for both fittings & drivers. Original Equipment Manufacturer (OEM) shall have their own NABL accredited lab. Valid NABL accreditation certificate must be submitted along with the bid by the bidder. LM-80 report shall be of the original LED chip manufacturer certified by any internationally approved lab.
1.2.5	All test certificates like LM-79, LM-80, Technical data sheet of the offered items shall be submitted along with the bid.	For BEC Clause No. 1.2.1 (B): (i) If the bidder is authorized Business partner or authorized dealer/authorized system integrators or implementers of OEM, such bidders shall also submit a certificate as per the enclosed format as ANNEXURE-A issued by the OEM authorising them to participate in the Tender. Any bid not meeting this requirement shall be straightway rejected. (ii) Bidders who have participated with the experience of their OEM must submit contract document showing details of work as mentioned in Notes to BEC Clause 1.2.1 (B) and a job completion certificate showing work order number/contract number, nature of job and date of completion along with other documents as mentioned in Clause 1.2. (iii) In case of Authorized Business partner/Authorized dealer/Authorized system integrators/Implementers dependent upon the experience of the

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> OEM, with a view to ensure commitment and involvement of the OEM for successful execution of the contract, the participating bidder should enclose an agreement (as per format enclosed as ANNEXURE- B) between the OEM and the Authorized **Business** partner/Authorized system dealer/Authorized integrators/Implementers to OIL for fulfilling the obligation under the agreement, along with the Technical bid failing which the bid will be liable for rejection.

- (iv) Undertaking by the OEM to provide additional Performance Security equivalent to 50% of the value of the Performance Security which is required to be submitted by the bidding company in case the supported bidding company is the successful bidder.
- (v) Undertaking from the OEM to the effect that in addition to invoking the Performance Security submitted by the contractor, the Performance Security provided by OEM shall be invoked by OIL due to non-performance of the contractor.

For BEC Clause No. 1.2.2:

- **A.** For proof of requisite Experience (refer Clause No. 1.2.2), the following documents / photocopy (self-attested / attested) must be submitted along with the bid:
- (i) Contract document / LoA / WO showing details of work,

AND

- (ii) Job Completion Certificate showing:
 - i) Gross value of job done
 - (ii) Nature of job done and Work order no. / Contract no.
 - (iii) Contract period and date of completion

OR

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		SES (Service Entry Sheet) / Certificate of Payment (COP) issued by the company indicating the following: (i) Work order no. / Contract no. (ii) Gross value of jobs done (iii) Period of Service (iv) Nature of Service
1.2.6	Original Equipment Manufacturer (OEM) shall have their own NABL accredited lab. Valid NABL accreditation certificate must be submitted along with the bid by the bidder.	Clause merged with 1.2.4 (sl. No. 1.2.6 stands deleted)
1.2.7	LM-80 report of the original LED chip manufacturer should be submitted along with the bid.	Clause merged with 1.2.4 (sl. No. 1.2.7 stands deleted)
For BEC Clause 1.2.2 (E)	Not present	In case of WORK' executed through 'subcontracting', the bidder shall submit relevant documents as mentioned under para ' A ' and/or ' D ' above, along with either confirmation towards consent of the client organization/end user for allowing 'subcontracting' the particular work to them or the job completion certificate issued to them with endorsement by the client organization/end user.

4. Queries to the responses are attached as Annexure-1

All other terms and conditions of the Bid Document remain unchanged. Details can be viewed at https://etender.srm.oilindia.in/irj/portal and www.oil-india.com.

Senior Manager-Contracts (S)

ANNEXURE-A

REVISED PRE-QUALIFICATION CRITERIA (PQC)

BID EVALUATION CRITERIA (BEC) - BID REJECTION CRITERIA (BRC)

1.0 BID EVALUATION CRITERIA (BEC):

The bid shall conform to the specifications and terms and conditions given in the Bidding Documents. Bids will be rejected in case material and services offered do not conform to the required parameters stipulated in the technical specifications. Notwithstanding the general conformity of the bid to the stipulated specifications, the following requirements will have to be particularly met by the Bidders without which the same will be considered as non-responsive and will not be considered for evaluation. All the documents related to BEC shall be submitted along with the Technical Bid.

1.1 Eligibility Criteria:

The bidder must be incorporated in India and must maintain more than 20% local content (LC) for the offered services to be eligible to bid against this tender.

Regarding calculation of local content and submission of documents during bidding & execution of contracts, provision of Purchase preference policy linked with Local Content (PP-LC) notified vide Letter No. FP-20013/2/2017-FP-PNG dated 17.11.2020 by-MoPNG (including subsequent amendments thereof, if any) shall be applicable.

If such local content is not maintained during execution of contract, OIL reserves the right to invoke the Performance Securities submitted by the bidding and supporting companies, in addition to resorting to other options as may be deemed appropriate.

Whether or not the bidders want to avail PP-LC benefit against this tender, it is mandatory for them to meet the following at the bidding stage:

- (a) Without specifying the unit rates and bid amount in the technical bid, the bidder must provide the percentage (%) of local content in their bid, without which the bid shall be summarily rejected being non-compliant.
- (b) The Bidder shall submit an undertaking from the authorised signatory of bidder having the Power of Attorney alongwith the bid, specifying the LC Percentage and such undertaking shall become a part of the contract, if awarded. [Format enclosed as Proforma-XVI].
- (c) Bidder to submit a copy of their Certificate of Incorporation/registration in India.

1.2 Technical Criteria:

1.2.1 (A) The Bidder must be OEM (Original Equipment manufacturer) of stadium mast luminaries. They must submit a self-certified document in support of the same.

OR

(B) The bidder must be Authorized Business partner/Authorized dealer/Authorized system integrators/Implementers of OEM.

If the bidder is authorized Business partner or authorized dealer/authorized system integrators or implementers of OEM, such bidders shall also submit a certificate as per the enclosed format as ANNEXURE-A issued by the OEM authorising them to participate in the Tender. Any bid not meeting this requirement shall be straightway rejected.

1.2.2 Bidder must have experience of successfully completing at least one work of Designing, erecting and commissioning of outdoor stadium mast lighting with minimum average lux level (horizontal) of 500 in previous 07 (seven) years reckoned from the original bid closing date with PSUs / Central Government / State Government Organization / Public Limited Company.

Notes to BEC Clause No. 1.2.1 (B):

- i. Offers of those bidders who themselves do not meet the experience criteria as stipulated in Clause Nos. 1.2.2 can also be considered provided the Bidder is an Authorized Business partner/Authorized dealer/Authorized system integrators/Implementers of OEM who meets the experience criteria as stipulated in Clause 1.2.2. Such bidder shall have experience of "Successfully implementing at least one work of area lighting/high mast lighting" in previous 07 (seven) years reckoned from the original bid closing date with PSUs / Central Government / State Government Organization / Public Limited Company. However, the respective OEM should on its own meet the experience criteria as stipulated in the BEC Clause 1.2.2 above and should not rely on any other company or through any other arrangement like Technical Collaboration agreement etc. for meeting the experience criteria.
 - ii. The Supporting Company (OEM) shall not be allowed to quote separately/independently/or through any other arrangement like part of any other JV/Consortium against this tender. All the bids received in such case shall be summarily rejected. Further, all bids from parties with technical support from the same OEM shall be rejected.
- **1.2.3** The Bidder must have an Electrical Contractors' License issued or recognized by the Electrical Licensing Board, Government of Assam. This Electrical Contractor's license shall be valid as on original bid closing date. Bidder must submit a copy of valid Electrical Contractors' License in support of above.

Bidders having valid Electrical Contractors' License issued by any State Government Electrical Licensing Board of India other than that of Assam can also participate in the tender provided such bidders submit a copy of their valid electrical contractor's license along with an undertaking stating that on award of contract to them they will submit either a valid Electrical Contractors' License issued by Electrical Licensing Board, Government of Assam in their name or get their Electrical Contractors' License recognized / endorsed by Electrical Licensing Board, Government of Assam for executing the job at Assam within 30 days from date of award of the contract and the same will be subsequently renewed till the completion of the contract.

- 1.2.4 The Bidder shall submit LM 79 & LM 80 test report, technical data sheet of the offered items along with the bid. LM-79 certificate shall be from manufacturers own lab for both fittings & drivers. Original Equipment Manufacturer (OEM) shall have their own NABL accredited lab. Valid NABL accreditation certificate must be submitted along with the bid by the bidder. LM-80 report shall be of the original LED chip manufacturer certified by any internationally approved lab.
- **1.2.5** Documentary proofs to be submitted:

For BEC Clause No. 1.2.1 (B):

- (i) If the bidder is authorized Business partner or authorized dealer/authorized system integrators or implementers of OEM, such bidders shall also submit a certificate as per the enclosed format as **ANNEXURE-A** issued by the OEM authorising them to participate in the Tender. Any bid not meeting this requirement shall be straightway rejected.
- (ii) Bidders who have participated with the experience of their OEM must submit contract document showing details of work as mentioned in Notes to BEC Clause 1.2.1 (B) and a job completion certificate showing work order number/contract number, nature of job and date of completion along with other documents as mentioned in Clause 1.2.
- Authorized Business (iii) In case of partner/Authorized dealer/Authorized system integrators/Implementers dependent upon the experience of the OEM, with a view to ensure commitment and involvement of the OEM for successful execution of the contract, the participating bidder should enclose an agreement (as per format enclosed as **ANNEXURE-B**) between the OEM and the Authorized Business partner/Authorized dealer/Authorized system integrators/Implementers to OIL for fulfilling the obligation under the agreement, along with the Technical bid failing which the bid will be liable for rejection.
- (iv) Undertaking by the OEM to provide additional Performance Security equivalent to 50% of the value of the Performance Security which is required to be submitted by the bidding company in case the supported bidding company is the successful bidder.
- (v) Undertaking from the OEM to the effect that in addition to

invoking the Performance Security submitted by the contractor, the Performance Security provided by OEM shall be invoked by OIL due to non-performance of the contractor.

For BEC Clause No. 1.2.2:

- **A.** For proof of requisite Experience (refer Clause No. 1.2.2), the following documents / photocopy (self-attested / attested) must be submitted along with the bid:
- (i) Contract document / LoA / WO showing details of work,

AND

- (ii) Job Completion Certificate showing:
 - (i) Gross value of job done
 - (ii) Nature of job done and Work order no. / Contract no.
 - (iii) Contract period and date of completion

<u>OR</u>

SES (Service Entry Sheet) / Certificate of Payment (COP) issued by the company indicating the following:

- (i) Work order no. / Contract no.
- (ii) Gross value of jobs done
- (iii) Period of Service
- (iv) Nature of Service
- **B.** Only Letter of Intent (LOI) / Letter of Award (LOA) and/ or Work Order(s), Job Completion certificate are not acceptable as evidence of experience. Successful completion of the awarded contract(s) to the extent of value/volume, as stipulated respectively under Clause 1.2.2 will only be treated as acceptable experience.
- **C.** In case requisite experience is against <u>OIL's CONTRACT</u>, bidder shall only be required to categorically specify OIL's Contract Number and date to consider the experience as mentioned in PARA 1.2.2.
- **D.** Following work experience will also be taken into consideration:
- (a) If the prospective bidder is executing similar work which is still running and the contract value/quantity executed prior to original bid closing date is equal to or more than the minimum prescribed value in the BEC.
- **(b)** In case the start date of the requisite experience is beyond the prescribed 07 (seven) years reckoned from the original bid closing date but completion is within the prescribed 07 (seven) years reckoned from the original bid closing date.

- (c) If the prospective bidder has executed a contract in which similar work is a component of the contract.
 - In case the document submitted as per **Para A**, (i) & (ii) above are not sufficient to establish the value/quantity/period of the similar work against **Para D**, (a), (b) & (c) above the bidder shall also have to submit the breakup of the works executed under such contract(s) clearly indicating the value / quantity / period of SIMILAR work which should be certified by the end user or a certificate issued by a practicing Chartered / Cost Accountant Firm (with Membership Number, UDIN & Firm Registration Number).
- E. In case of 'WORK' executed through 'sub-contracting', the bidder shall submit relevant documents as mentioned under para 'A' and/or 'D' above, along with either confirmation towards consent of the client organization/end user for allowing 'sub-contracting' the particular work to them or the job completion certificate issued to them with endorsement by the client organization/end user.
- **F.** SIMILAR work executed by a bidder for its own organization / subsidiary cannot be considered as experience for the purpose of meeting BEC.

1.3 Financial Criteria:

- (i) Annual Financial Turnover of the bidder in any of preceding 03 (three) financial / accounting years, reckoned from the original bid closing date should be at least Rs. 1,25,00,000.00 (Rupees One Crore Twenty- five Lakh) only.
- (ii) **Net worth** of bidder must be positive for preceding financial / accounting year.

Note:

- Annual Financial Turnover of the bidder from operations shall mean: "Aggregate value of the realisation of amount made from the sale, supply or distribution of goods or on account of services rendered, or both, by the company (bidder) during a financial year" as per the Companies Act, 2013 Section 2 (91).
- Net worth shall mean: "Share capital + Reserves created out of profits and securities Premium Aggregate value of accumulated losses (excluding revaluation reserves) deferred expenditure Miscellaneous Expenditure to the extent not written off and carried forward Loss Reserves created out of write back of depreciation and amalgamation"

• The Net worth to be considered against the clause above, should be read in conjunction with the definition of Net worth as mentioned in Section 2 (57) of The Companies Act, 2013.

Notes to BEC Clause No. 1.3:

- **A.** For proof of Annual Turnover & Net worth any one of the following documents must be submitted along with the bid:
- (i) A certificate* issued by a practicing Chartered / Cost Accountant (with Membership Number and Firm Registration Number), certifying the Annual turnover & Net worth as per format prescribed in **PROFORMA-XV**.

OR

(ii) Audited Balance Sheet along with Profit & Loss account.

*Note:

- Mention of UDIN (Unique Document Identification Number) is mandatory for all Certificates issued w.e.f. February 1, 2019 by Chartered Accountant in Practice.
- In case the bidder is a Central Govt. organization / PSU / State Govt. organization / Semi-State Govt. Organization or any other Central / State Govt. Undertaking, where the auditor is appointed only after the approval of Comptroller and Auditor General of India and the Central Government, their certificates may be accepted even though FRN is not available. However, bidder to provide documentary evidences for the same.
- Considering the time required for preparation of Financial Statements, В. if the last date of preceding financial/accounting year falls within the preceding six months / within the due date for furnishing of audit report as Section 139(1) of IT Act, 1961 (read along with latest circulars/notifications issued by CBDT from time to time) reckoned from the original bid closing date and the Financial Statements of the preceding financial / accounting year are not available with the bidder, then the financial turnover of the previous three financial / accounting years excluding the preceding financial/accounting year will be considered. In such cases, the Net worth of the previous financial/accounting year excluding the preceding financial / accounting year will be considered. However, the bidder has to submit an undertaking in support of the same along with their technical bid as per **PROFORMA-X**.
- **C.** In case the bidder is a Government Department, they are exempted from submission of documents mentioned under para **A.** and **B.** above.

2.0 COMMERCIAL EVALUATION CRITERIA

2.1 Bids are to be submitted under Single-Stage Two-Bid System i.e., Un-priced Techno-Commercial Bid and Price Bid in their respective fields in e-tender portal. Only the Price Bid should contain the quoted price.

2.2 The price quoted by the successful bidder must be firm during the performance of the contract and not subject to variation on any account except as mentioned in the bid document. Any bid submitted with adjustable price quotation other than the above will be treated as non- responsive and rejected.

Note: The breakup of the quoted/offered price i.e., the duly filled Price Bid Format MUST NOT be uploaded with the technical bid; otherwise, the bid shall be rejected straightway.

- **2.3** Bid Security in Original shall be furnished as a part of the Technical Bid and shall reach the office of GM- Contracts, OIL at Duliajan on or before 12.45 Hrs (IST) on the bid closing date. A scanned copy of the bid security shall however be uploaded in OIL's E-Procurement portal along with the Technical Bid. The amount of Bid Security shall be ₹ **5,00,000.00**. Bid without proper & valid Bid Security will be rejected.
- **2.4** Bid Documents / User Id & Password for OIL's E-Tender portal are not transferable.
- **2.5** Any bid received in the form of Physical document/ Telex/ Cable/ Fax/ Email will not be accepted.
- **2.6** Bids shall be typed or written in indelible ink. The bidder or his authorized representative shall sign the bid digitally, failing which the bid will be rejected.
- **2.7** Bids shall contain no interlineations, erasures or overwriting except as necessary to correct errors made by bidder, in which case such corrections shall be initiated by the persons(s) signing (digitally) the bid. However, white fluid should not be used for making corrections. Any bid not meeting this requirement shall be rejected.
- **2.8** Any bid containing false statement will be rejected and action will be taken by Company as per Bid Document.
- **2.9** Bidder must accept and comply with the following provisions as given in the Tender Document in toto, failing which offer will be rejected:
 - (i) Firm price
 - (ii) Bid Security
 - (iii) Period of validity of Bid
 - (iv) Price Schedule
- (v) Performance Bank Guarantee / Security deposit
- (vi) Delivery / Completion Schedule
- (vii) Scope of work
- (viii) Guarantee of material / work
- (ix) Liquidated Damages clause
- (x) Tax liabilities
- (xi) Arbitration / Resolution of Dispute Clause
- (xii) Force Majeure
- (xiii) Applicable Laws
- (xiv) Specifications
- (xv) Integrity Pact

- **2.10** There should not be any indication of price in the Un-priced Techno-Commercial Bid. A bid will be straightway rejected if this is given in the Un-priced Techno-Commercial Bid.
- **2.11** Bid received with validity of offer less than **One Hundred and Twenty (120) Days** from Bid Closing Date will be rejected.
- **2.12** The Integrity Pact is applicable against this tender. OIL shall be entering into an Integrity Pact with the bidders as per format enclosed vide **PROFORMA-XIII** of the tender document. This Integrity Pact proforma has been duly signed by OIL's competent signatory. The proforma must be returned by the bidder (along with the Un-priced Techno-Commercial Bid) duly signed (digitally) by the same signatory who signed the bid, i.e., who is duly authorized to sign the bid. Uploading the Integrity Pact with digital signature will be construed that all pages of the Integrity Pact have been signed by the bidder's authorized signatory who sign the Bid.

3.0 PRICE EVALUATION CRITERIA

- **3.1** Price bid shall be opened in respect of only the techno-commercially acceptable bidders whose bids have been found to be substantially responsive. A substantially responsive bid is one that meets the terms and conditions of the Tender and/or the acceptance of which bid will not result in indeterminate liability on OIL.
- **3.2** Bidders are required to quote for all the items in the BOQ/Price Bid/Financial Document. In case the bidder does not quote against any of the line items, the total bid value shall be considered as inclusive of the cost of the service/item.
- **3.3** It is to be clearly understood that the assumptions made in respect of the quantities for various operations are only for the purpose of evaluation of the bid and the Contractor will be paid on the basis of the actual number of days/parameters.
- **3.4** The bidders are advised not to offer any discount/rebate separately and to offer their prices after considering discount/rebate, if any.
- **3.5** Conditional and unsolicited discount will not be considered in evaluation. However, if such bidder happens to be the lowest recommended bidder, unsolicited discount without any condition will be considered for computing the contract price.
- 3.6 The inter-se-ranking of the techno-commercially qualified bidders will be determined on overall lowest cost basis (L-1 offer) i.e., considering the Total quoted price inclusive of all liabilities and GST.
- **3.7** Based on the evaluation of techno-commercially qualified bidders, the job will be awarded to the L-1 bidder.
- **3.8** In case of identical overall lowest offered rate by more than 01 (one) bidder, the selection will be made by draw of lot between the parties offering the same overall lowest price.
- **3.9** OIL will prefer to deal with registered bidder under GST. Therefore, bidders are requested to get themselves registered under GST, if not registered yet. However, in case any unregistered bidder is submitting their bid, their prices will be loaded

with applicable GST while evaluation of bid. Where OIL is entitled for input credit of GST, the same will be considered for evaluation of bid as per evaluation methodology of tender document.

- **3.10** When a bidder mentions taxes as extra without specifying the rates & amount, the offer will be loaded with maximum value towards taxes received against the tender for comparison purposes. If the bidder emerges as lowest bidder after such loading, in the event of order on that bidder, taxes mentioned by OIL on the Purchase Order/Contracts will be binding on the bidder.
- **3.11** Input Tax Credit on GST (Goods & Service Tax) for this service is NOT available to OIL & the bids will be evaluated based on total price including GST.
- **3.12** For evaluation purpose, quoted unit rates against each Line Item of the price bidding format shall be considered only upto 02 (two) decimal places without rounding off for evaluation.

4.0GENERAL

- **4.1** In case bidder takes exception to any clause of bidding document not covered under BEC/BRC, then the Company has the discretion to load or reject the offer on account of such exception if the bidder does not withdraw/modify the deviation when/as advised by company. The loading so done by the company will be final and binding on the bidders. No deviation will however be accepted in the clauses covered under BEC/BRC.
- **4.2** To ascertain the substantial responsiveness of the bid the Company reserves the right to ask the bidder for clarification in respect of clauses covered under BEC/BRC also and such clarifications fulfilling the BEC/BRC clauses in toto must be received on or before the deadline given by the company, failing which the offer will be evaluated based on the submission. However, mere submission of such clarification shall not make the offer responsive, unless company is satisfied with the substantial responsiveness of the offer.
- **4.3** If any of the clauses in the BEC/BRC contradict with other clauses of bidding document elsewhere, the clauses in the BEC/BRC shall prevail.
- **4.4** Bidder(s) must note that requisite information(s)/financial values etc. as required in the BEC/BRC & Tender are clearly understandable from the supporting documents submitted by the Bidder(s); otherwise, Bids shall be rejected.
- **4.5** OIL will not be responsible for delay, loss, or non-receipt of applications for participating in the bid sent by mail and will not entertain any correspondence in this regard.
- **4.6** The originals of such documents [furnished by bidder(s)] shall have to be produced by bidder(s) to OIL as and when asked for.
- 5.0 PURCHASE PREFERENCE CLAUSE: MSEs Units (manufacturers / Service Providers: (NOT APPLICABLE FOR THIS TENDER)
- 6.0 PURCHASE PREFERENCE POLICY (PPP-MII):

Purchase preference under Public Procurement (Preference to Make in India) Order, 2017 of Department for Promotion of Industry and Internal Trade (DPIIT), Govt. of India as revised vide Order No. P-45021/2/2017-PP (BE-II) dated 16th September 2020 (and as amended time to time) with modifications as notified vide MoPNG Order No. FP-20013/2/2017-FP-PNG-Part (4) (E-41432) dated 26th April 2022, shall be applicable in this tender. Bidders to check the provisions of the Order for their eligibility to bid and seek benefits for Purchase preference, accordingly. The minimum local content and the margin of purchase preference are as per notifications from Department for Promotion of Industry and Internal Trade (DPIIT), Govt. of India from time to time.

7.0 FINANCING OF TRADE RECEIVABLES OF MICRO AND SMALL ENTERPRISES (MSES) THROUGH TRADE RECEIVABLES DISCOUNTING SYSTEM (TREDS) PLATFORM:

Based on the initiatives of Government of India to help MSE vendors get immediate access to liquid fund based on Buyers credit rating by discounting, OIL has registered itself on TReDS platform with M/s RXIL and M/s A TREDS Ltd (invoice Mart). MSE vendors can avail this benefit by registering themselves with any of the exchanges providing e-discontinuing / electronic factoring services on TReDS platform and following the producers defined therein, provided OIL is also participating in such TReDS Platform as a buyer.

- (i) MSE vendor should be aware that all cost relating to availing the facility of discounting on TReDS platform including but not limited to Registration charges, Transaction charges for financing, Discontinuing Charges, interest on financing, or any other charges known by any name shall be borne by MSE Vendor.
- (ii) MSE Vendor hereby agrees to indemnify, hold harmless and keep OIL, and its affiliates, Directors, officers, representatives, agents and employees indemnified, from any and all damages, losses, claims and liabilities (including legal costs) which may arise from sellers submission, posting or display, participation, in any manner, on the TReDS platform or from the use of Services or from the buyer's breach of any of the terms and conditions of the Usage Terms or of this Agreement and any Applicable Law on a full indemnity basis.
- (iii) OIL shall not be liable for any special, indirect, punitive, incidental, or consequential damages or any damages whatsoever (including but not limited to damages for loss of profits or savings, business interruption, loss of information), whether in contract, tort, equity or otherwise or any other damages resulting from using TReDS platform for discounting their (MSE Vendor's) invoices.

Note:

- (i) Buyer means OIL, who has placed Purchase Order / Contract on a MSE Vendor (Seller).
- (ii) Seller means a MSE vendor, who has been awarded Purchase Order / Contract by OIL (Buyer).

- **8.0** COMPLIANCE OF THE COMPETITION ACT, 2002: The bidder shall strictly comply with the provisions of the Competition Act, 2002, more particularly, Section-3 of the Act. Any violation the provisions of the Act shall attract penal action under the Act.
- 9.0 <u>CHECKLIST FOR BEC-BRC</u>: Enclosed as *TECHNICAL EVALUATION SHEET* (PROFORMA-XX) and *COMMERCIAL CHECK-LIST* (PROFORMA-XII). To be submitted along with the technical bid.

ANNEXURE-A TO BEC-BRC

Sample Format of authorization letter from OEM
(To be typed on the letterhead of the OEM and must be duly sealed and signed by authorised signatory of OEM)

Ref. No	Date
To, CGM – Contr Oil India Lim Duliajan -78	nited,
Sir,	
Sub: Author	rization Certificate
Ref: Your ter	nder enquiry No Dated
1.0 The partner OEM.	bidder M/sis our Authorized Businesser/Authorized dealer/Authorized system integrators/Implementers of
above-	ereby authorize M/sto participate in the mentioned tender on the basis of my credentials, for which we shall no objection.
to sele	firm that the we shall bear the responsibility and accountability in regard ection of luminaries, integrated design of lighting distribution in the g area and other aspects related to achievement of desired illumination
	e warranty and AMC support, including replacement of spares will be led (tick any of the following)
	rectly by us. the bidder on our behalf.
	award of the contract, we shall provide full OEM support for the entire on of the contract, including in extension period (if any).
Yours faithfu	ully,
Signature of Name: Design	me of the firm here) Authorized Signatory nation: Phone No.: Place: Date: Email: the Organization here, if applicable)
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ANNEXURE-B TO BEC-BRC

FORMAT OF AGREEMENT BETWEEN BIDDER AND THEIR OEM (TO BE EXECUTED ON STAMP PAPER OF REQUISITE VALUE AND NOTORISED)

	This agreement made this day of month year by and between M/s (Fill in the Bidder's full name, constitution and registered office address) hereinafter referred to as bidder on the first part and M/s (Fill in full name, constitution and registered office address of OEM) of the other parts
	WHEREAS
	M/s. Oil India Limited (hereinafter referred to as OIL) has invited offers vide their Tender No for and M/s (Bidder) intends to bid against the said tender and desires to have technical support of M/s [OEM] and whereas OEM represents that they have gone through and understood the requirements of subject tender and are capable and committed to provide the services as required by the bidder for successful execution of the contract, if awarded to the bidder.
	Now, it is hereby agreed to by and between the parties as follows:
l.	M/s(Bidder) will submit an offer to OIL for the full scope of work as envisaged in the tender document as a main bidder and liaise with OIL directly for any clarifications etc. in this context.
2.	M/s (OEM) undertakes to provide technical support and expertise, expert manpower and procurement assistance and project management to support the bidder to discharge its obligations as per the Scope of work of the tender/ Contract for which offer has been made and accepted by the bidder.
3.	This agreement will remain valid till validity of bidder's offer to OIL including extension if any and till satisfactory performance of the contract in the event the contract is awarded by OIL to the bidder.
1.	It is further agreed that for the performance of work during contract period bidder and OEM shall be jointly and severely responsible to OIL for satisfactory execution of the contract.
5.	However, the bidder shall have the overall responsibility of satisfactory execution of the contract awarded by OIL.
	In witness whereof the parties hereto have executed this agreement on the date mentioned above.
	For and on behalf of M/s For and on behalf of M/s

(D	CO
ľ	YC)

(Bidder)	(OEM)
Witness:	Witness:
1.	1.
2.	2.
*******END OF PO	5C**************

Nai	ame of Work: Hring Service for Flood Light Illumination of Nehru Maidan, Duliajan					
Sn	Section	Clause no.	Page no.	As mentioned in Bid document	As requested by bidder	OIL's comments
1	BEC-BRC	1.2	25	Bidder must have experience of successfully completing atleast one similar work of minimum value Rs 1,25,00,000.	As is allowed in all government bids please allow escalation @ 7% per annum to bring the value of work executed in earlier years to present value. For eg. if date of completion as in the certficate is 3 years and 3 months old and the value of work completed as in completion certfcate is Rs 100. Then the present value of that work for considering in the qualification criterion should be (100+100*(39/12)*7%)=122.75	Please refer revised clause 1.2 of attached PQC
2	BEC - BRC	1.2.4	25	The bidder shall submit along with the bid, submit the LM79 and LM 80 from manufacturer's NABL approved test house along with the bid for both fitting and driver of the offered Luminaire	LM79 is a doument for the luminaire and LM 80 is a document for LED Chip. LM79 will be submitted by manufacturer of Luminiare whose lab is certified by NABL. LM 80 is a report of LED chip maufacturers and the approved makes of LED chip in this bid are Nichia, Osram, CREE, Philips whose chip manufacturing facilities are outside India and so the labs they test are approved by respective country authorities and international certifying agencies. Therefore please remove the requirement of LM80 report from NABLapproved test house.	LM80 test report for any internationally approved lab is acceptable
3	STC	8B	72	The mast sections shall be manufactured from steel sheets conforming to BSEN 10025 S450	Please change this to "The mast sections shall be manufactured from steel sheets conforming to BSEN 10025 S450, S355 or equivalent Indian Standard, IS 2062,E350Gr, E450 Gr.	No change, as per tender as a superior grade of steel (S450) is considered preferable
4	STC	8D(j)	73	All necessary incoming/outgoing cables and wires for providing the supply from the distribution panel to the electrical loads of the tower shall be in the scope of vendor including all gland and lugs needed for termination.	Please clarify if we can take common cable for set of lums at top and distribution power from a junction box at the mast top. OR It's necessary to take individual cable from bottom electrical distribution cum panel to each of the luminaires.	The stated works shall be in scope of the vendor
5	STC	2(a) & 8C	73	Clause-2(a) -Successful bidder shall measure Soil bearing capacity as per standard practice nd shal lformulate the foundation design by taking into considereation the soil condition. Clause 8C-(b)- The design of founation shall be done considering net soil bearong capacity of 8MT/sq m.	If we measure SBC after award of IOA and find SBC lower than 8 MT/sq m as considered in costing at the time of bidding, we request 0il to reimbusre the roportional diffrence in cost of foundation as input condition is changing. Alternately we request OIL to please provide the soil report with bidding document as is done stadium works.	8 nearby locations data has already been provided for refernece. The exact capacity to be measured by the bidder prior to designing.

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6	STC	18 & 20(1)	77,78	Clause 18-The total contract price as indicated in schedule of work, quantities and rates-BoQ of this contract is inclusive of all statutory liabilities viz. corporate income tax, personal tax etc and GST. Clause 20(1)-In clause 20(1) on page 78 its mentioned as Quoted price/rate(s) should be inclusive of all taxes and duties, except GST. Price bid format (excel)In price bid format it is mentioned to quote price exclusive of GSt	These are contradictory. Please clarify whether price to be put in price format is inclusive of GST or exclusive of GST. In the Price Bid format its clearly mentioned price to be quoted is exclusive of taxes.	Please refer the Price bid format (excel) where bidder is also asked to quote GST $\%$
7	STC	9		The main power supply and cabling work from the power source to the towers is in vendor scope	We request Oil to confirm availability of Main Lighting panel(presently there is no main mention of Main Lighting panel in the bid document) availability in the substation of OIL from where cables are be laid to the distribution board cum control panel near the mast. (1) Request OIL clarification if Main Lighting Panel is available or to be included in bidders' scope or not. If its to be included please include this item in Price Bid format. (2) Also OIL to confirm distance from the substation and Main Lighting upto the ground so that cabe size and length, cost can be calculated for bidding.	1. Main lighting panel is present in the Sub-station 2. Cable length has to be decided by the vendor based on the proposed location of their poles. Adequate size & length to be decided to avoid any voltage drop within 3%.
8	STC	10	71		Drawing is provided but not clearly mentioned anywhere how many grounds to be lighted etc. What al area to be covered Please clarify which all areas to be covered with 500 lux.	Updated drawing is attached
9				Prebid conference	Please allow to attend Prebid conference on Virtual mode (i.e. through video conferencing also)	Accepted and VC was allowed in the pre bid meeting

10	PQC (BEC)	1.2.2	25	The Bidder must be OEM (Original Equipment manufacturer) of stadium mast luminaries. or The bidder must be Authorized Business partner/Authorized dealer/Authorized system integrators/Implementers of OEM. If the bidder is authorized Business partner or authorized dealer/authorized system integrators or implementers of OEM, the bidders shall submit relevant certificate to establish its relationship with the OEM. Such bidders shall also submit a certificate as per the enclosed format as ANNEXURE-A issued by the OEM authorising them to participate in the Tender. Any bid not meeting this	If bidder credentials as subcontractor would be considered	Please refer revised clause 1.2 of attached PQC
11	PQC (BEC)	1.2.1	25	Bidder must have experience of successfully completing at least one SIMILAR work of minimum value Rs. 1,25,00,000.00 (Rupees One Crore Twenty- five Lakh) only in previous 07 (seven) years reckoned from the original bid closing date with PSUs / Central Government / State Government Organization / Public Limited Company.	Instead of single work as credentials, if multiple experience would be considered	Please refer revised clause 1.2 of attached PQC
12	PQC (BEC)	1.2.2	25	The Bidder must be OEM (Original Equipment manufacturer) of stadium mast luminaries. or The bidder must be Authorized Business partner/Authorized dealer/Authorized system integrators/Implementers of OEM. If the bidder is authorized Business partner or authorized dealer/authorized system integrators or implementers of OEM, the bidders shall submit relevant certificate to establish its relationship with the OEM. Such bidders shall also submit a certificate as per the enclosed format as ANNEXURE-A issued by the OEM authorising them to participate in the Tender. Any bid not meeting this	If JV/Consortium would be applicable	Please refer revised clause 1.2 of attached PQC
13					Applicability of maintenance factor (>0.85)	Not applicable
14					is there any restriction in mast location /height	There is restriction in mast location to uphold the aesthetics but no restriction in mast height
15	STC	8.0 A (j)	5	(j) Luminaire should be supplied with 5kV internal and 20 kV external surge protection.	If internal/external surge protection 4/10 instead of 5/20 would be accepted	As stated in the tender (No change)
16	STC	8.0 D (j)	7	(j) All necessary incoming/outgoing cables and wires for providing the supply from the distribution panel to the electrical loads of the tower mast shall be in scope of the Vendor including all Gland and Lugs needed for termination.	If cable from css to main panel is in owner's scope	In bidder's scope
18					Junction box at top or at ground	Junction box shall be mounted on ground
19	STC	8.0 A (h)	5	(h) The Correlation Colour Temperature (CCT) of the luminaire should be 5500 ± 500 K and the CRI should be > 70Ra CRI.	If any deviation in CRI (≥70) is acceptable	As stated in the tender (No change)
20				Lighting standards: FIFA (Grade 2)/FIFA Category 1 (national competitions) Average horizontal illuminance (Em): # 500 lx Reference grid: 90 points or higher Colour Temp: 5000-6200 K Uniformity: # 0.6 Glare rating: # 50 Colour rendering: # 70	Please clarify GRID SIZE	Grid size of the playing area is 90, as per the tender. For non playing area a 5x5 Sq. Metre area shall be considered.

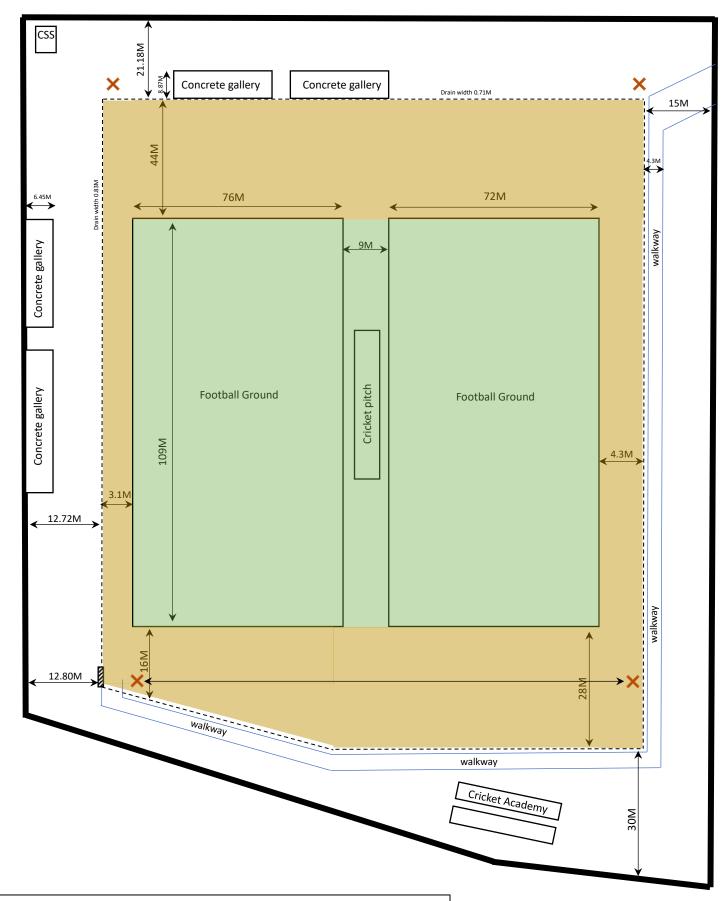
21					If inclusion/deviation in mobilization advance would be acceptable	Not applicable
22	PQC (BEC)	1.1	1	The bidder must be incorporated in India and must maintain more than 20% local content (LC) for the offered services to be eligible to bid against this tender. Regarding calculation of local content and submission of documents during bidding & execution of contracts, provision of Purchase preference policy linked with Local Content (PP-LC) notified vide Letter No. FP-20013/2/2017-FP-PNG dated 17.11.2020 by-MoPNG (including subsequent amendments thereof, if any) shall be applicable.	-	NO
23					What is the Limitation on voltage drop	To be within 3%
24					If Dimmer is Reqd	No
25	STC	10 B	9	Detailed design calculations of the stadium lighting mast, structural design and details of RCC foundation duly vetted by IIT/Government Institute and for final approval by OIL	Please clarify on Vetting by IIT/NIT in civil structures	Approval/vetting clause of structural design in stadium mast is s follows; a)Comprehensive structural design of stadium mast infrastructure planned under the project. Contractor shall be required to carry out comprehensive soil investigation including topographical and geotechnical survey for efficient design for mast at no extra costs to OIL. b) Contractor shall perform all the civil & structural design work necessary by utilizing the most economical, effective and widely accepted engineering concepts as per the latest BIS codes of practices for earthquake resistant structures and shall at all times show a high degree of professionalism in their work, the contractor shall be fully responsible for the design and third-party approval/vetting (by IITs/NITs/Reputed Government Colleges only) of all the structural engineering documents/drawings. The payment for approval/vetting of engineering documents/drawings from third party shall be made by contractor directly and the same has to be loaded by the contractor in their quoted price. c) The structural design shall have to be done on STAAD-PRO software (latest licensed version) or any other standard software. d) A copy of structural grid along with design calculations in both soft & hard copies shall be submitted to OIL for record. e) Test certificate for construction material o be submitted by vendor, issued by a government Institute of report.
26					Please indicate exact Dimension of ground	Updated drawing with dimension enclosed
27					What's the max Crane capacity avl with OIL	45 Ton
28	STC	5	4	Sub-contracting of Petty Support Services against this contract is not applicable.	If Sub Contracting shall be allowed	Petty contractor for local facilities /logistics etc. allowed

29	PQC	2.3	6	Bid Security in Original shall be furnished as a part of the Technical Bid and shall reach the office of GM-Contracts, OIL at Duliajan on or before 12.45 Hrs (IST) on the bid closing date. A scanned copy of the bid security shall however be uploaded in OIL's E-Procurement portal along with the Technical Bid. The amount of Bid Security shall be ₹5,00,000.00. Bid without proper & valid Bid Security will be rejected.	Clarify exemption on bid security	Exemption of Bid Security is not applicable as it is a WORK contract
30	PQC (BEC)	1.2.1,1.2.2	2	Bidder must have experience of successfully completing at least one SIMILAR work of minimum value Rs. 1,25,00,000.00 (Rupees One Crore Twenty- five Lakh) only in previous 07 (seven) years reckoned from the original bid closing date with PSUs / Central Government / State Government Organization / Public Limited Company. The Bidder must be OEM (Original Equipment manufacturer) of stadium mast luminaries. or The bidder must be Authorized Business partner/Authorized dealer/Authorized system integrators/Implementers of OEM.	With reference to the above tender, we wish to inform you that we are interested in participating in the tender through our authorized dealer. However, we would like to request you to consider our (OEM) credential (min criterion of Rs. 1.25 crore of work execution.) and allow our authorized dealer to participate on the basis of our credential. We shall however undertake and ensure that the work shall be carried out as per specifications of the tender.	Please refer revised clause 1.2 of attached PQC
32	STC	8.0 A (h)	5	(h) The Correlation Colour Temperature (CCT) of the luminaire should be 5500 ± 500 K and the CRI should be > 70Ra CRI.	As this is sports lighting application, requesting you to consider quality lighting of CRI>80 with efficacy of > 115 lumen / watt.	As per tender
32	STC	6		Lighting standards: FIFA (Grade 2)/FIFA Category 1 (national competitions) Average horizontal illuminance (Em): # 500 lx Reference grid: 90 points or higher Colour Temp: 5000-6200 K Uniformity: # 0.6 Glare rating: # 50 Colour rendering: # 70	Uniformity of U1(min/max): 0.50 & U2(min/avg.): 0.70 are considered for this application, grid size is considered as 5m x 5m for providing quality lighting on field of play area. Kindly confirm.	As per tender
33	PQC (BEC)	1.1	1	The bidder must be incorporated in India and must maintain more than 20% local content (LC) for the offered services to be eligible to bid against this tender. Regarding calculation of local content and submission of documents during bidding & execution of contracts, provision of Purchase preference policy linked with Local Content (PP-LC) notified vide Letter No. FP-20013/2/2017-FP-PNG dated 17.11.2020 by-MoPNG (including subsequent amendments thereof, if any) shall be applicable.	More than 20% LC (Local Content) for bidder. Whether local content in all items or in average. Kindly confirm.	It is >20 % of the overall contract value.

34	PQC original bid closing date with PSUs / Central Government / State Government Organization / Public Limited Company.The Bidder must be OEM (Original Equipment	able to participate in the tender on the basis of OEM's credentials on furnishing	Please refer revised clause 1.2 of attached PQC
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	35	PQC (BEC)	1.2.1,1.2.2	2	Bidder must have experience of successfully completing at least one SIMILAR work of minimum value Rs. 1,25,00,000.00 (Rupees One Crore Twenty- five Lakh) only in previous 07 (seven) years reckoned from the original bid closing date with PSUs / Central Government / State Government Organization / Public Limited Company.The Bidder must be OEM (Original Equipment manufacturer) of stadium mast luminaries. or The bidder must be Authorized Business partner/Authorized dealer/Authorized system integrators/Implementers of OEM.	If the bidder is an authorised representative of the OEM, the bidder or the OEM must meet the prequalification criteria specially the past experience criteria?	Please refer revised clause 1.2 of attached PQC
1.7	36	PQC (BEC)	1.2.1,1.2.2	2	Bidder must have experience of successfully completing at least one SIMILAR work of minimum value Rs. 1,25,00,000.00 (Rupees One Crore Twenty- five Lakh) only in previous 07 (seven) years reckoned from the original bid closing date with PSUs / Central Government / State Government Organization / Public Limited Company. The Bidder must be OEM (Original Equipment manufacturer) of stadium mast luminaries. Or The bidder must be Authorized Business partner/Authorized dealer/Authorized system integrators/Implementers of OEM. For proof of the above, bidder shall submit necessary supporting documents. If the bidder is authorized Business partner or authorized dealer/authorized system integrators or implementers of OEM, the bidders shall submit relevant certificate to establish its relationship with the OEM. Such bidders shall also submit a certificate as per the enclosed format as ANNEXURE-A issued by the OEM authorising them to participate in the Tender. Any bid not meeting this requirement shall be straightway rejected.	Kindly take note that typically, all tender requirements and reference work accomplished by the bidder as a subcontractor may also be taken into consideration. This is applicable when the certificate issued by the main contractor is duly certified by the owner, clearly indicating the scope of work performed by the subcontractor in support of meeting the qualifying requirements. It is important to mention that the owner must be a central/state government, PSU (Public Sector Undertaking), or a public limited company.	Please refer revised clause 1.2 of attached PQC
3		PQC (BEC)	1.2.1	2	Bidder must have experience of successfully completing at least one SIMILAR work of minimum value Rs. 1,25,00,000.00 (Rupees One Crore Twenty- five Lakh) only in previous 07 (seven) years reckoned from the original bid closing date with PSUs / Central Government / State Government Organization / Public Limited Company.	Typically, in most tender processes, there are specific experience requirements that need to be fulfilled. For instance, the required experience could be defined as completing a single project worth 1.25 crores or two projects worth 85 lakhs each, or alternatively, three projects worth 57 lakhs each. Retaining this clause would provide an unfair advantage to larger players, potentially impeding the entry of smaller players into the forum.	Please refer revised clause 1.2 of attached PQC

38	PQC (BEC)	1.2.2	2	The Bidder must be OEM (Original Equipment manufacturer) of stadium mast luminaries. or The bidder must be Authorized Business partner/Authorized dealer/Authorized system integrators/Implementers of OEM. The bidder must be Authorized Business partner/Authorized dealer/Authorized system integrators/Implementers of OEM.For proof of the above, bidder shall submit necessary supporting documents. If the bidder is authorized Business partner or authorized dealer/authorized system integrators or implementers of OEM, the bidders shall submit relevant certificate to establish its relationship with the OEM. Such bidders shall also submit a certificate as per the enclosed format as ANNEXURE-A issued by the OEM authorising them to participate in the Tender. Any bid not meeting this requirement shall be straightway rejected.	What would be the pre qualification criteria (Eligibility criteria) in case of JV / consortium please.	Please refer revised clause 1.2 of attached PQC
39	STC	8	72	Scope of Supply (s)Driver Efficiency should be greater than 0.85, THD > 10%, Power factor: >0.95.	Please clarify if Driver Efficiency should be greater than 0.85, THD > 10%, Power factor: >0.95.	(s)Driver Efficiency should be greater than 0.85, THD < 10%, Power factor: >0.95.
40	STC	6	71	6.0 SPECIFICATIONS AND APPLICABLE STANDARDS Lighting standards: FIFA (Grade 2)/FIFA Category 1 (national competitions) Average horizontal illuminance (Em): # 500 lx Reference grid: 90 points or higher Colour Temp: 5000-6200 K Uniformity: # 0.6 Glare rating: # 50 Colour rendering: # 70	Please clarify on applicable standards	6.0 SPECIFICATIONS AND APPLICABLE STANDARDS Lighting standards: FIFA (Grade 2)/FIFA Category 1 (national competitions) Average horizontal illuminance (Em): # 500 lx (playing Area), 300Lx (Nonplaying area) Reference grid: 90 points or higher (Playing Area) 5x5 Sq M (Non Playing) Colour Temp: 5000-6200 K Uniformity: # 0.6 Glare rating: # 50 Colour rendering: # 70 Operating Temperature: -10 degree to 45 degree celsius



Area under dotted line to be illuminated.

- Green area (playing area) shall be illuminated to 500 Lux.
- Yellow area (non-playing area) shall be illuminated to 300 Lux.

Boundary

----- Walkway
----- Drainage System

Preferable Positioning of mast

