NEW TOWN KOLKATA DEVELOPMENT AUTHORITY

(A Statutory Authority Under Government of West Bengal)
3, Major Arterial Road, New Town, Kolkata - 700 156

Memo No: 2336/EE(E)/NKDA/2020-21 **Dated: 17-06-2020**

CORRIGENDUM-II

Name of Work: Request for Proposal for design, supply, fabrication, erection, commissioning, testing and maintenance of 5(five) solar trees at the Smart Street beside 'Mela Ground' and 'Swapna Bhore' in New Town, Kolkata

Ref: Notice Inviting e-Quotation No.02/EE(E)/NKDA/2020-21 vide Memo No. 1728/EE(E) /NKDA/Elect/2020-21 dated 14-05-2020, Tender ID: 2020_NKDA_282902_1.

This is to notify as per the resolutions taken in the Pre-Bid meeting held on 12 June 2020 at 2:00 PM at NKDA Office Building, New Town, Kolkata-156 few points are to be modified in the published in NIeT No. 02/ EE(E)/NKDA/2020-21dated: 14-05-2020.which are as follow:

Sl. No.	Original Clause/ Specification as mentioned in the tender	Amendment
1.	**Clause - c. Concept of solar tree** Solar Power Tree is designed with branches made of steel to hold the photovoltaic panels. It generates power, supports street lighting, adds to the aesthetics of the site and promotes the use of alternative renewable energy sources, generally as a demonstration case to the public. The artificial tree with Photo voltaic cells arranged to form the tree shape; is designed efficiently to ensure maximum power from the sunlight across the panels.	**Clause - A. Design Details for the Solar Bench, Point No – 2** Solar Power Tree is designed with branches made of steel to hold the photovoltaic panels. It generates power, supports street lighting, adds to the aesthetics of the site and promotes the use of alternative renewable energy sources, generally as a demonstration case to the public. The artificial tree with Photo voltaic cells arranged to form the tree shape; is designed efficiently to ensure maximum power from the sunlight across the panels. Solar tree dimensions details: Solar tree minimum and maximum height range: Minimum Ground clearance of 12ft to be maintained. Solar Tree surrounding area dimension: Diameter of the Solar tree top will be approx in the range of 10-15ft about the tree trunk as the axis. Base material and Base area dimension: Base material will be steel structure covered by fiber coating and painting to give the look of a natural tree. Approx dimensions of the base structure above ground will be a cyllinder of about 4ft dia and 1.5ft height. The RCC foundation will be underground. Wind Speed-50m/sec (as per Wind speed map in IS 802 part 1) is to be considered in the design aspect of Solar tree. Type of Light wattage (min 5W), Color (Moon light) and Lumens output(650-850) to be considered. SBC (Soil bearing capacity):4.5MT/Sq.m is to be considered. Panel must: Mono-crystalline Solar Panels.

Phone : 033-2324-2324 / 2132 / 2148, 18003451571
Fax : 033-2324-2147
Website : www.nkdamar.org

<table>
<tr><th>Sl. No.</th><th>Original Clause/ Specification as mentioned in the tender</th><th>Amendment</th></tr>
<tr><td>2</td><td><u>Clause - d. Intent</u>
Requisite Power Generation(Total solar power together from 5 solar trees)- 5kWp</td><td>Requisite Power Generation(Total solar power together from 5 solar trees)- 5kWp(min)</td></tr>
<tr><td>3</td><td><u>Eligibility, Sl.No.2.Turnover</u>
Average Annual turnover must be at least Rs.1Crore/- during last three financial years ending on 31.03.2019 on the basis of audited annual accounts issued by the same chartered account who has conducted the Audit(Enclose certificate from chartered accountant).</td><td>Average Annual turnover must be at least Rs.1Crore/- during last three financial years ending on 31.03.2019 on the basis of audited annual accounts issued by the same chartered account who has conducted the Audit(Enclose certificate from chartered accountant).Basic IT details (GST,PAN etc.,) also to be furnished.</td></tr>
<tr><td>4</td><td><u>Eligibility, Sl.No.3.Experience</u>
a. At least three years of experience in designing, installation and maintenance of solar photo voltaic cell based power generation unit of not less than 5kWp in a single installation in India.
b. Experience of design, installation, testing and maintenance of at least one solar tree in India</td><td>a. At least three years of experience in designing, installation and maintenance of solar photo voltaic cell based power generation unit of not less than 5kWp in a single installation in India/ Atleast three years of experience in designing, installation and maintenance of designing, installation and maintenance of minimum 50nos Solar street light.
b. "Deleted".</td></tr>
<tr><td>5</td><td><u>Method of Evaluation,2.a,b</u>
2. The evaluation will be made in two steps
a. Technical evaluation of acceptability of design and short listing of eligible bidders on the basis of soundness and feasibility of the design. The bidders have to submit detail proposed design of a single typical solar tree feasible for the selected site of installation. The evaluation committee will adjudicate the design on the basis of
i. Structural stability
ii. Aesthetic appeal and fit with the surroundings
iii. Power generation capacity
iv. Ease of maintenance
v. Plan of implementation
All the bidders will be invited to present and explain their design proposals on the above parameters.
b. The bidders with technically accepted designs will be invited to submit financial bids and the bidder offering lowest total cost of installation and maintenance will be chosen as the preferred bidder subject to fulfillment of all other conditions.
3. Technical eligibility will be determined on the basis of submitted documents and the decision of the authority will be final in this matter.
4. In the financial bid, the bidders will have to quote the lump sum total cost of designing , supplying, installation, commissioning and testing of 5 (five) solar trees of approved design and post commissioning maintenance for 3 years</td><td>2.The evaluation will be made in two parts
a. Technical evaluation of acceptability of design and short listing of eligible bidders on the basis of soundness and feasibility of the design. The bidders have to submit detail proposed design of a single typical solar tree feasible for the selected site of installation. The evaluation committee will adjudicate the design on the basis of
i. Structural stability
ii. Aesthetic appeal and fit with the surroundings
iii. Power generation capacity
iv. Ease of maintenance
v. Plan of implementation
All the bidders fulfilling minimum eligibility criteria will be invited to present and explain their design proposals on the above parameters.
All the bidders have to cover these points in their technical proposal document and explain these in the technical presentation.
There will be a technical score of 100 to be marked on the basis of submitted proposal document consisting design proposals and technical presentation as detailed above. The scoring will be as follows:
<table>
<tr><th>Sl. No.</th><th>Scoring criteria</th><th>Basis of scoring</th><th>Maximum score</th></tr>
<tr><td>1</td><td>Structural stability</td><td>Documents and presentation</td><td>25</td></tr>
<tr><td>2</td><td>Aesthetic appeal and fit with the surroundings</td><td>Documents and presentation</td><td>25</td></tr>
<tr><td>3</td><td>Power generation</td><td>Documents and</td><td>15</td></tr>
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</td></tr>
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Sl. No.	Original Clause/ Specification as mentioned in the tender	Amendment
	post successful commissioning of the 5 (five) solar trees.	<table><tr><td></td><td>capacity</td><td>presentation</td><td></td></tr><tr><td>4</td><td>Ease of maintenance</td><td>Documents and presentation</td><td>15</td></tr><tr><td>5</td><td>Plan of implementation</td><td>Documents and presentation</td><td>20</td></tr></table> The minimum qualifying score will be 50 in technical evaluation b. The bidders scoring 50 or more will be considered for opening of the financial proposal. i. The highest financial score of 100 will be awarded to the technically qualified bidder who quotes the least amount and the other qualified bidders will get proportionately lower score as follows: ii. If the financial offer of least cost bidder is L and that of another higher cost bidder is N then the financial score of the higher cost bidder FS will be FS=100x(L/N) c. Final evaluation will be made on the a CQCBS (combined quality and cost based system) with 70% weight age on technical score and 30% weight age on financial score as follows: i. If the Technical score of a bidder out of 100 is T where T>50, and their Financial Score calculated as at b (i)and b(ii) above is FS out of 100, then the final CQCBS score of this bidder will be S=70% of T+30% of FS d. The bidder scoring highest composite score will be the selected bidder subject to compliance with all other relevant terms and conditions. 3. Technical eligibility will be determined on the

Sl. No.	Original Clause/ Specification as mentioned in the tender	Amendment
		basis of submitted documents and the decision of the authority will be final in this matter. 4. In the financial bid, the bidders will have to quote the lump sum total cost of designing , supplying, installation, commissioning and testing of 5 (five) solar trees of approved design and post commissioning maintenance for 3 years post successful commissioning and testing of the 5 (five) Nos solar trees.
6	**Payment Milestone, Serial No.1& 2** 1. Design, Fabrication, installation, commissioning and testing of 5solar trees of accepted design. (Time-2months,Payment %-70%) 2. Maintenance of the 5solar trees post successful commissioning for 3years.(Yearly at the end of each year of satisfactory maintenance, Payment%-10%)	1. Design, Fabrication, installation, commissioning and testing of 5solar trees of accepted design. (Time-2months, Payment %-90%) 2. Maintenance of the 5solar trees post successful commissioning for 3years.(At the end of 3rd year of satisfactory maintenance, Payment%-10%)
7	**Approved Make list(Sl.No.12,13)** 12. Solar panel with accessories all complete-Vikram/Tata Solar/Luminious 13. Lights, Cables, Switchboards, DB, MCB, conduits, all other fittings and accessories-Legrand/Schneider/Seimens/ABB/L&T/Havells/ CG/Almonard/Philips/Bajaj/Wipro	12. Solar panel (Mono crystalline) with accessories all complete- Vikram/Tata Solar/Luminious/MNRE approved brand. 13. Lights, Cables, Switchboards, DB, MCB, conduits, all other fittings and accessories-Legrand/Schneider/Seimens/ABB/L&T/Havells/ CG/Almonard/Philips/Bajaj/Wipro/Surya

8. Date and Time Schedule:

Sl No.	Particulars	AS is	Would be
1	Documents download end date (Online)	17.06.2020 from 6:55P.M.	**29.06.2020 from 6:55P.M.**
2	Bid Submission closing (On line)	18.06.2020 at 6:55 P.M.	**29.06.2020 at 6:55 P.M.**
3	Bid opening date for Technical Proposals (Online)	22.06.2020 at 12:00 P.M.	**01.07.2020 at 11:00 A.M.**
	Date of technical presentation	18.06.2020 at 12:00PM	**06.07.2020 from 12:00PM**
4	Date of uploading list for Technically qualified Bidder(Online)	Will be intimated in due course	Will be intimated in due course
5	Date of opening of Financial Proposal (Online)	Will be intimated in due course	Will be intimated in due course
6	Last date of Intimation to the successful bidder	Will be intimated in due course	Will be intimated in due course

Other terms and conditions shall be remaining unchanged.

17/6/20

Executive Engineer (E)
New Town Kolkata Development Authority

Memo No: 2336/EE(E)/NKDA/2020-21 **Dated:17.06.2020**

Copy forwarded for information to:-

i. The Chief Executive Officer, New Town Kolkata Development Authority.
ii. The Chief Executive Officer, New Town Kolkata Green Smart City Corporation Ltd.
iii. The Chief Engineer, New Town Kolkata Development Authority.
iv. The Finance Officer, New Town Kolkata Development Authority.
v. The Assistant Engineer (E), New Town Kolkata Development Authority.
vi. P.A to the Chairman, New Town Kolkata Development Authority.
vii. Office copy of NKDA.
viii. Official Website of New Town Kolkata Development Authority (www.nkdamar.org)

sd/

Executive Engineer (E)
New Town Kolkata Development Authority