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## Kolkata Port Trust

Mechanical & Electrical Engineering Department  
8, Garden Reach Road, Kolkata- 700043



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No. Mech/C/25/255/3346

Dated, the 31<sup>st</sup> December, 2018

Chief Coordinator,  
Industry Institute Partnership Cell,  
Jadavpur University  
188, Raja S. C. Mallick Road,  
Kolkata- 700032

Sir,

**Sub:** Order for "Technical Advisory Service for designing of lighting scheme regarding- Decorative Illumination of Rabindra Setu (Howrah Bridge) with state of the Art LED Luminaries".

**Ref:** This office letter no. (i) Mech/C/25/255/2802 dated 25.10.2018 & (ii) letter no. Mech/DC-II/25/255/2976 dated 16.11.2018 and revised offer letter dated 27.11.2018 from Jadavpur University.

Reference above, we are pleased to place this order with you for the work "Technical Advisory Service for designing of lighting scheme regarding- Decorative Illumination of Rabindra Setu (Howrah Bridge) with state of the Art LED Luminaries" at a cost of Rs. 14,50,000/- (Rupees Fourteen Lakh Fifty Thousand only) excluding GST. GST will be paid extra as per scope of work and other terms and conditions of this order letter.

The scope of work and terms & conditions are given below:

**1. Scope of Work:**

- (i) Preparation of Scheme Design for Dynamic Architectural Illumination of Howrah Bridge and micro-controller based synchronized Sound System at Millennium Park or at some other suitable place. This will consist of a set of drawings, illumination design along with visual effect creation for Technical presentation to Kolkata Port Trust (KoPT) officials covering the effects of light and sound proposed by them. This will be revised and presented to KoPT to reach level of satisfaction of KoPT.
- (ii) Preparation of (A) Technical Specification of materials and products to be used in the execution of works (B) Special Conditions of Contract for execution of the work (incorporating KoPT's guideline and suggestions) (C) Techno-Scope of Work (D) Bill of Materials (BOM) for execution of the works (E) Total estimated price (F) preparation of the pre-qualifying criteria for the Bidders / Contractors.
- (iii) (A) Attending the pre-bid meeting for explaining the scope, details, etc. to the prospective Bidders/Contractors, (B) Evaluating the Techno-Commercial offer from the Bidders/ Contractors (jointly with KoPT).
- (iv) Vetting the design scheme along with quantitative and qualitative aspects of the materials and products proposed to be used by the successful Bidders /Contractors on the basis of technical specification, testing report and performance guaranty provided by the successful Bidders /Contractors. The system performance guarantee however will lie fully with the Bidders /Contractors and manufacturer of the products and assembly thereof.
- (v) Visiting the execution of work during installation, testing and commissioning. Work certification will be provided on commissioning of the Project up to a maximum number of 10 (Ten) such visits will be made during execution of the work.

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Phase-wise distribution of the above Scope of works is as follows:

Phase-1 : Item no. (i) and (ii)

Phase-2 : Item no. (iii) and (iv)

Phase-3 : Item no. (v)

2. **Total Consultancy fees for Technical Advisory Service:** Rs. 14.50 lakhs (Rupees Fourteen Lakh Fifty Thousand only) plus GST as applicable.

3. **Payment Terms:**

- (a) 60% of the Total Consultancy Fees (i.e. Rs.8.70 lakhs ) plus GST as applicable on completion of Phase-1.
- (b) 30% of the Total Consultancy Fees (i.e. Rs.4.35 lakhs) plus GST as applicable on completion of Phase-2.
- (c) 10% of the Total Consultancy Fees (i.e. Rs.1.45 lakhs) plus GST as applicable on completion of Phase-3.

All payments will be made in the form of DEMAND DRAFT or BANK TRANSFER and are to be made in favour of Registrar, Jadavpur University.

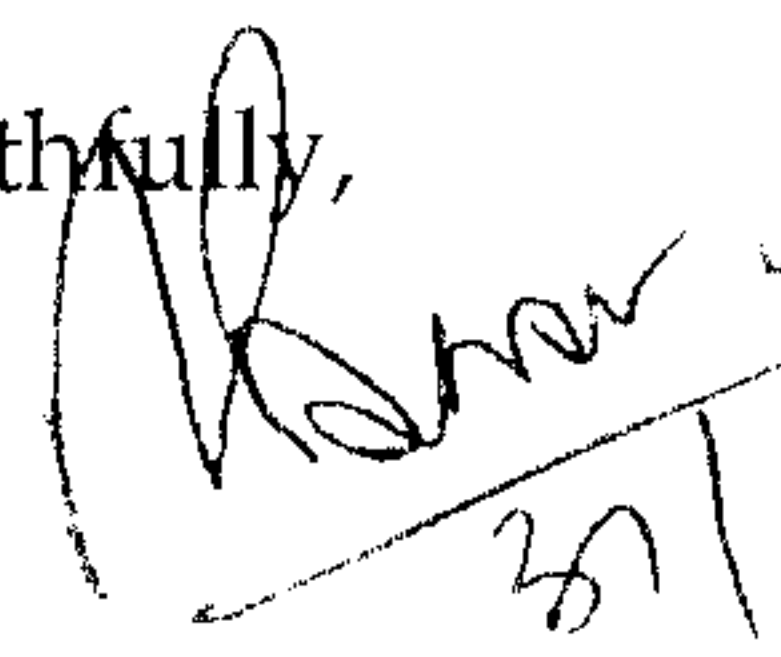
4. **Time Frame for the Proposed Service –**

- (a) For rendering the service including item no. (i) under Scope of Work as mentioned above : 21 working days from the date of placement of this work order.
- (b) For completion of the jobs mentioned in item no. (ii) under Scope of Work as mentioned above: 30 working days after obtaining the formal approval of item no. (i) from KoPT.
- (c) The post tendering activities including construction, installation, testing and commissioning are to be carried out as per time schedule of tendering work of KoPT.

You are requested to acknowledge the receipt of this order letter.

Thanking you,

Yours faithfully,



(A. Basu)

Chief Mechanical Engineer (I/C)

- Copy to The Registrar, Jadavpur University, 188, Raja S. C. Mallick Road, Kolkata- 700032 - for information please.
- Copy to Dr. B. Roy, Coordinator of the Consultancy Services, Professor, Illumination Engineering, Electrical Engineering Dept., Jadavpur University, 188, Raja S. C. Mallick Road, Kolkata- 700032 - for information please.
- Copy to Chief Vigilance Officer -for favour of kind information please.
- Copy to Chief Engineer [Attn : Supdt. Enggr (RS)] - for information please.
- ✓ Copy to Dy. CME-II - for information please.
- Copy to SE-I/ SE-II - for information please.



## JUSTIFICATION:

3.1 It is to mention in this regard that the job of illumination of Rabindra Setu by the state of art LED luminaries is a job of architectural lighting which would highlight the structural brilliance, visual elegance and beauty of the bridge. The bridge is one of the few land marks of the city of Kolkata and is known as the gateway of Kolkata. The bridge spanning over the Hooghly River provides a great opportunity for creative illumination. As such, the concept of smart illumination of Rabindra Setu is to be chosen in such a way so that it should provide the city with a night time visual treat in line with the beauty offered by other similarly famous bridges of the world with state of the art LED luminaries. It should also give a better night time visual treat in comparison to the existing conventional illumination system of the bridge.

3.2 As has been stated earlier that due to non availability of in house expertise in this kind of specialized architectural illumination work with state of the art LED luminaries and sound system, this Department was not able to firm up the estimate for the subject work considering the aesthetics & technical aspects. It is also to be mentioned that as there is no standardized catalogue/price list for architectural LED luminaries for carrying out this type of specialized illumination work, this department was unable to analyse the technical specification and design aspects of the offer of M/s. Phillips Lighting India Ltd.

3.3 It has been gathered that in West Bengal, Jadavpur University is the only Institute where there is a wing of "School of Illumination Engineering" under Electrical Engineering Department who are offering Master Degree in Illumination Engineering and is having facility to test lighting product as well as to validate / evaluate various industrial lighting design through their state of the art laboratory and lighting design software. Hence, it was proposed that the subject work may be carried-out through open tendering by engaging Jadavpur University on nomination basis for providing Technical Advisory Service at a total cost of Rs.14.5 lakhs plus applicable GST along with their terms & conditions.