

**Minutes of Pre-Bid meeting held on 29.08.2019 for "Supply, Installation, Testing & Commissioning of 35 numbers High Mast Lighting Towers along with allied Electrical Installation work and Cabling work for providing illumination at different areas of NSD, KPD-I and Coal Berth Area of KPD-II, Kolkata Port Trust."**

Notice Inviting Tender No.: KoPT/KDS/Mech/SE-I/ADV/537 dated 22.08.2019

Prospective bidders present at the pre-bid meeting:

1. M/s. P.P. Elektro Power.
2. M/s. Signify Innovations India Ltd.

Pursuant to the discussions held with the prospective bidders at the time of pre-bid meeting, the followings were minutised:

Queries raised by the Bidders	Reply by KoPT
1. In Technical Specifications of LED (page no. 32), CRI > 70 for R1 to R15 and R9 is given a value greater than 0. However, R9 > 0 is not required for outdoor illumination as there is little scope for colour representation for High Mast Lighting.	It has been clarified that CRI > 70 with or without R9 > 0 is acceptable.
2. In Technical Specifications of LED Driver (page no. 32), it has been mentioned that Input Voltage Rating as 140 to 300 V. Considering $\pm 10\%$ variation in supply voltage, the upper limit comes to 264 V. Hence, the wording may be Input Voltage Range from 140 V to 270 V instead of Input Voltage Rating as 140 to 300 V.	Input Voltage Range for LED Driver should be read as 140 to 270 V instead of 140 to 300 V.
3. Dimming Range of luminaries should be considered taking into account smart control proposition of luminaries. RF Network will not work in 25 m High Mast hence selection of gateway becomes redundant.	It is to be clarified that Future Provision for wireless smart control of dimmable LED Flood Lights (page no. 33, point no. d) should be read as "Luminaries should have provisions for smart control for controlling the 400 watt LED luminaries in future. Provision for smart control of luminaries should be made in the driver unit and in High Mast Feeder Pillar box in such a way so that it should be compatible with any other technology required to incorporate the smart control in future." instead of "Luminaries should have following ..... The vendor/manufacturer of LED Luminaries should provide necessary support for integration of the smart control of aforesaid 400 watt luminaries, if required." as mentioned in technical specifications, point no. d, page no.33 to 34.

Queries raised by the Bidders	Reply by KoPT
4. In Technical Specifications of LED Driver (page no. 32), for Over Voltage Protection it has been mentioned that the Driver should withstand 300 V for 48 hours. However, as the luminaries will glow for maximum 12 hours at a go therefore withstand capability for Driver at 300 V for 12 hours should be sufficient.	It should be read as "Driver shall withstand min 340V for 2 hours and min 300V for 12 hours without failure" instead of "Driver shall withstand min 340V for 2 hours and min 300V for 48 hours without failure" as mentioned in technical specifications point no. b, page no. 32.
5. All luminaries should be SMD Type	No change in technical specification for this clause is acceptable.
6. Grade of steel for High Mast has been mentioned as S355 in technical data sheet and as S355J0 in BOQ.	Steel grade for all the High Mast Towers is to be read as S355 / E-350 instead of S355J0.
7. Size of the Trailing Cable of the High Masts has been mentioned 5C x 2.5 sq.mm. in one place and 5C x 4.0 sq.mm. in another place of the technical data sheet.	Size of the Trailing Cable of the High Masts is to be read as 5C x 4.0 sq.mm. instead of 2.5 sq. mm.

No issues regarding commercial points have been raised by the prospective bidders.

All other terms and conditions of the NIT remain unchanged. This minute is to be considered as a part of the NIT.

Chief Mechanical Engineer