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OFFICE OF THE DEPUTY GENERAL MANAGER: ELECTRICAL,
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No.TW-5/Vol-7/ 369

Date: 29/6/2020

Corrigendum-1 to NIT NO- 01/2020-21

FOR

**SUPPLY OF 150 WATT LED BASED FLOOD LIGHTS WITH COMPLETE FITTINGS
REQUIRED AT GRID SUB-STATION, BHANJANAGAR & PHULBANI UNDER EHT(O&M)
DIVISION, BHANJANAGAR**

Sl no	DESCRIPTION	EXISTING SCHEDULE	REVISED SCHEDULE
1	Commencement of Sale of Tender Paper	Up to dt.29.06.2020 (12:00 hrs)	Up to dt.30.07.2020 (12:00 hrs)
2	Last Date of Submission of Tender Paper	Up to dt.29.06.2020 (14.00 hrs)	Up to dt.30.07.2020 (14.00 hrs)
3	Date of Opening of Tender Paper	Dated 29.06.2020 (15:00 hrs)	Date 30.07.2020 (15:00 hrs)

THE FOLLOWINGS MODIFICATIONS ARE MADE IN THE TENDER SPECIFICATION

Ref. Section-III "Technical Specifications for 150 Watt LED based Flood Light with complete fittings"

Sr. No.	Description	Existing	Revised
1	Operating Voltage range (Volts)	(120-300)V AC (Single Phase)	(120-300)V AC (Single Phase)
2	Rated System Wattage (Watts)	150 WATT INCLUDING DRIVER	150 Watt including driver \pm 05%
3	Optical Assembly	Discrete High Power LED	High Power Discreet LED
4	Beam Angle (Lens)	60 degree to 90 degree Secondary optical lens	60° for Luminaire (60° Secondary Optical Lens)
5	Make of LENS	LEDIL / KHATOD	LEDIL/ KHATOD or equivalent
6	Power Factor	> 0.90	\geq 0.9
7	Supply Frequency (Hz)	-	50
8	Total Harmonic Distortion (%)	-	<10%
9	Surge Protection (kV)	Minimum 5 KV	Internal 4 KV in driver + 10 KV external SPD
10	LED Efficacy	-	>120 Lm/W (Manufacturer to submit proof for the same)
11	System Efficacy (lumen/watt)	-	\geq 100 Lm/W
12	Junction Temperature (Tj)	-	The Junction Temperature shall be <75 Deg. C at 25 Deg. C to 30 Deg. C Ambient Temperature

13	Ingress Protection (IP)	IP66	IP66
14	Housing	Die cast Aluminium housing	Pressure Die Cast Heat sink Housing. Aluminium extrusion heat sink will be preferable.
15	Luminaire cover / glass	Full toughened glass cover	Heat resistant toughened glass
16	Luminaire mounting arrangement	adjustable mounting arrangement	Adjustable mounting arrangement
17	Colour Rendering Index (CRI)	>=70	≥70
18	Working Life for LED (No. of hours)	Minimum 50,000 Burning Hours	Minimum 50,000 Burning Hours as per LM-80
19	Colour Temperature (Deg. Kelvin)	Cool white 5700K TO 6500K	5700K- 6500K(Cool White)
20	LED Drive Current (A)	-	Not more than 85% of the rated current carrying capacity of LED
21	Make of LED manufacturer	CREE, NICHIA AND PHILIPS LUMILEDS	CREE / NICHIA / Philips Lumiled / OSRAM
22	Humidity (% min & max - Relative humidity)	-	10% to 90% RH
23	Suitability for dusty conditions	-	Yes
24	Operating Temperature Range	-	Minimum -5° To 55° C
25	Driver	-	One No. Independent Drivers for the Luminaire With BIS Standard
26	Driver Protection	-	Short Circuit, Over Load, Open Circuit No - Load, & Environmental
27	Driver Make	-	Inventronics / Philips Xitanium
28	Driver Type	-	Constant Current potted driver with internal Surge Protection of 4 KV, BIS standard
29	Driver Efficiency	85% OR ABOVE.	85% OR ABOVE.
30	Warrantee / Guarantee	Minimum 2 years against manufacturing defects	2 Years from the Date of supply against Manufacturing Defect only
31	Make of Luminary:	Phillips, Havells, Crompton, Bajaj, Frequency, GE or equivalent	Phillips, Havells, Crompton, Bajaj, Frequency, GE, Pyrotech or equivalent
32	Confirmation to Standards:	LM 79 & LM 80 test report from NABL/ govt. approved lab. to be adhered by the led chip manufacturer.	LM 79 & LM 80 test report from NABL/ govt. approved lab. to be adhered by the led chip manufacturer.

Ref. Section-V "Detailed Technical Specification sheet to be furnished by the bidders

Technical Specifications 150 Watt LED based Flood Light with complete fittings

SR. NO.	DESCRIPTION	TO BE FILLED UP BY BIDDER (REVISED)
1	Make/ Brand of LED light fitting	
2	Operating Voltage range (Volts)	
3	Rated System Wattage (Watts)	
4	Optical Assembly	
5	Beam Angle (Lens)	
6	Make of LENS	
7	Power Factor	
8	Supply Frequency (Hz)	
9	Total Harmonic Distortion (%)	
10	Surge Protection (kV)	
11	LED Efficacy	
12	System Efficacy (lumen/watt)	
13	Junction Temperature (Tj)	
14	Ingress Protection (IP)	
15	Housing	
16	Luminaire cover / glass	
17	Luminaire mounting arrangement	
18	Colour Rendering Index (CRI)	
19	Working Life for LED (No. of hours)	
20	Colour Temperature (Deg. Kelvin)	
21	LED Drive Current (A)	
22	Make of LED manufacturer	
23	Humidity (% min & max - Relative humidity)	

24	Suitability for dusty conditions	
25	Operating Temperature Range	
26	Driver	
27	Driver Protection	
28	Driver Make	
29	Driver Type	
30	Driver Efficiency	
31	Warrantee / Guarantee	

Mandatory Documents to be submitted along with Offer.

1	Technical Data Sheet of the Offered Luminaire	Technical Data Sheet of the Offered Luminaire to be submitted along with the Offer.
2	Technical Data Sheet of the Driver	Technical Data Sheet of the Driver used in the Offered Luminaire to be submitted along with the Offer (BIS Certificate of the Driver)
3	LM 79 (Photometry) Report from NABL approved Lab	LM-79 Report mentioning Total Lumen output, Power, Power Factor, Current in Amps, CRI & CCT of the offered Luminaire to be submitted along with the Offer.
4	LM 80 Report & Photobiological Report for LED	LM-80 Report & the Photobiological Report of the LED Chip being used in the offered Luminaire to be submitted along with the Offer.
5	Authorization Certificate	Luminary manufacture has to submit the authorization certificate from led chip manufacturer like CREE / NICHIA / Philips Lumiled / OSRAM

Signature of the Tenderer

INSTRUCTIONS TO BIDDERS:

- ▶ The eligible bidders as decided by this office Tender committee are to be called for sample testing to nearby Grid Sub-Station under this Division. Separate letter is to be issued in this regard after scrutiny of tender documents.

All other terms & condition of the tender notice/specification remains unaltered.

(Handwritten Signature)
29/06/20

Dy. General Manager (Elect.)
EHT (O&M) Division, Bhanjanagar