

CORRIGENDUM

NIT NO. WBPDC/KTPS/NIT/E1376/19-20, Tender ID:2019_WBPDC_240283_1

Pre bid meeting held on 09.09.19

SECTION-IV (Modified as per Pre bid meeting held on 09.09.19)

(TECHNICAL SPECIFICATION)

1.0 INTENT OF SPECIFICATION:

This specification is intended to cover the Supply, Delivery & Transport of following LED LUMINAIRE

2.0 SCOPE OF SUPPLY:

specifications detailed below.

| SL. NO. | MAT CODE | HSN | DESCRIPTION OF MATERIAL | UNIT | QUANTITY |
|---------|---------------|----------|---|--------|-------------|
| 1 | M04-L02-00328 | 94054090 | LED TUBE LIGHT, 18/20W, DIA:28X1200MM FOR RETROFITTING EXISTING FTL | Number | 600 |
| 2 | M04-E03-00056 | 8539 | LED WELL GLASS LIGHT SET,38-45W # | Number | 1090 |
| 3 | M04-L02-00380 | 9405 | LED HIGH BAY FITTINGS,120WATT COMPLETE SET | Number | 200 |
| 4 | M04-L02-00322 | 9405 | LED LIGHT SET HIGH BAY 200W | Set | 210 |
| 5 | M04-L02-00359 | 9405 | LED,FLOOD LIGHT,350W FOR LIGHTING TOWER | Set | 160 |

• Bidder should submit the technical catalogue for the quoted item and duly filled up G.T.P form no.1,2,3,4,5 attached her

Delivery Period:-

The Overall contractual Period of supply and Material shall be delivered within 90(Ninety days) days from the date of placement of Purchase Order.

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G.T.P-1**GUARANTEED TECHNICAL PARTICULARS (TO BE SUBMITTED BY THE BIDDER)****LED FLOOD LIGHTS(350watt)**

| Sl no | Parameters | Details | Guaranteed Value offered by the bidder |
|-------|---|--|--|
| 1 | Make of LED | NICHIA/ OSRAM /LUMILEDS/ CREE | |
| 2 | LED Street Light operating voltage | 230v +40%to -40% | |
| 3 | LED Street Light operating frequency | 50 Hz+/- 5% | |
| 4 | Luminous efficacy in lumens per watt per unit | >120 | |
| 5 | Power consumption of Driver circuit | To be specified by bidder | |
| 6 | Total luminaire power consumption per unit including LED, driver circuit and other items if any (mention details) | To be specified by bidder | |
| 7 | Uniformity ratio(L min/L avg) and transverse(Lmin/L max) uniformity | 0.4 and 0.33 | |
| 8 | Driver circuit Efficiency | >90% | |
| 9 | Total harmonic distortion | <10% | |
| 10 | Colour rendering index | >70 | |
| 11 | Lumen maintenance | 80% or better | |
| 12 | Luminaire material used | AL. PDC | |
| 13 | Luminaire cover used | TOUGHENED GLASS | |
| 14 | Dimension and weight in kgs (needs to be compatible with existing pole) | To be specified by bidder | |
| 15 | Insulation resistance between live and accessible parts of the lamp | Not less than 4MΩ as per IS | |
| 16 | Optical & electrical ingress protection | IP66 or better | |
| 17 | LED Life | 50000 hrs | |
| 18 | Power factor | >0.95 | |
| 19 | Switching through group controller | Yes | |
| 20 | Driver life | Minimum 50% of LED life | |
| 21 | Color temperature | 5500-6500K | |
| 22 | No. of LEDs used and wattage of each LED | To be specified by bidder. (LED 4 to 6 watt) | |
| 23 | Average LED viewing angle | 120 | |
| 24 | LED with lens | To be specified by bidder | |
| 25 | Working temperature | 0 to 50 C | |
| 26 | Working humidity | 10-90% RH | |
| 27 | Protection (Electronics driven) | Open Loop/ Short Circuit, Over Voltage Protection@300V+5V, Surge Protection up to 4kV | |
| 28 | Test report to submit (Certified by NABL or NABL accredited LAB) | LM79 & LM80, BIS approval for both driver & luminaire | |

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G.T.P-2

GUARANTEED TECHNICAL PARTICULARS (TO BE SUBMITTED BY THE BIDDER)
LED WELL GLASS LIGHTS (38-45 watt)

| Sl no | Parameters | Details | Guaranteed Value offered by the bidder |
|-------|---|---|--|
| 1 | Make of LED | NICHIA/ OSRAM /LUMILEDS/ CREE | |
| 2 | LED Street Light operating voltage | 230v +40%to -40% | |
| 3 | LED Street Light operating frequency | 50 Hz+/- 5% | |
| 4 | Luminous efficacy in lumens per watt per unit | >120 | |
| 5 | Power consumption of Driver circuit | To be specified by bidder | |
| 6 | Total luminaire power consumption per unit including LED, driver circuit and other items if any (mention details) | To be specified by bidder | |
| 7 | Uniformity ratio and transverse uniformity | 0.4 and 0.33 | |
| 8 | Driver circuit Efficiency | >90% | |
| 9 | Total harmonic distortion | <10% | |
| 10 | Colour rendering index | >70 | |
| 11 | Lumen maintenance | 80% or better | |
| 12 | Luminaire material used | AL. PDC | |
| 13 | Luminaire cover used | TOUGHENED GLASS | |
| 14 | Dimension and weight in kgs (needs to be compatible with existing pole) | To be specified by bidder | |
| 15 | Insulation resistance between live and accessible parts of the lamp | Not less than 4MΩ as per IS | |
| 16 | Optical & electrical ingress protection | IP66 or better | |
| 17 | LED Life | 50000 hrs | |
| 18 | Power factor | >0.95 | |
| 19 | Switching through group controller | Yes | |
| 20 | Driver life | Minimum 50% of LED life | |
| 21 | Color temperature | 5500-6500K | |
| 22 | No. of LEDs used and wattage of each LED | To be specified by bidder. (LED 4 to 6 watt) | |
| 23 | Average LED viewing angle | 120 | |
| 24 | LED with lens | To be specified by bidder | |
| 25 | Working temperature | 0 to 50 C | |
| 26 | Working humidity | 10-90% RH | |
| 27 | Protection (Electronics driven) | Open Loop/ Short Circuit, Over Voltage Protection@300V+5V, Surge Protection up to 4kV | |
| 28 | Test report to submit (Certified by NABL or NABL accredited LAB) | LM79 & LM80, BIS approval for both driver & luminaire | |

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G.T.P.-3

Item Code: M04-L02-00322 (HIGH BAY 200W FITTING)

| Parts | Main Parameters | Reference Data | Parameters of offered item |
|---|--|--|-----------------------------------|
| Electrical (Electronic driver) | System Wattage | max 200W | |
| | Input Voltage | 240V, 50Hz | |
| | Operating Voltage range | from $\leq 140V$ to $\geq 270V$ AC | |
| | Power factor | ≥ 0.95 | |
| Optical | Luminous Flux | min 24000 lm | |
| | Color Temperature | 5700K \pm 300K | |
| | CRI | Min 70 | |
| | Working Temperature / Humidity | 0 °C ~ 50 °C / 10-90% RH | |
| Mechanical | Type of mounting | Bracket and i-bolt (both) | |
| | Material for Fixture | High Grade Aluminium die cast | |
| Safety | Protections (Electronic driver) | Open Loop/ Short Circuit | |
| | | Over Voltage Protection@300V+5V | |
| | | Surge Protection up to 4kV | |
| | Impact Resistance / IK Rating | min 7 | |
| | IP Rating | IP65 or more | |
| LED | Type of LED | SMD only, Make :Lumileds, Cree, Osram, Nichia and LGIT | |
| | LED Beam angle | 120° | |
| | LED Life | 50K hours | |
| Certificate & Warranty | Test report to Submit (Certified by NABL or NABL accredited LAB) | LM79 & LM80, BIS approval for both driver & luminaire | |
| | Warranty | 5 years | |

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G.T.P.- 4

Item Code:M04-L02-00380 (HIGH BAY 120W FITTINGS)

| Parts | Main Parameters | Reference Data | Parameters of offered item |
|---|--|--|-----------------------------------|
| Electrical (Electronic driver) | System Wattage | max 120W | |
| | Input Voltage | 240V, 50Hz | |
| | Operating Voltage range | from $\leq 140V$ to $\geq 270V$ AC | |
| | Power factor | ≥ 0.95 | |
| Optical | Luminous Flux | min 13200 lm | |
| | Color Temperature | 3000K \pm 300K | |
| | CRI | Min 70 | |
| | Working Temperature / Humidity | 0 °C ~ 50 °C / 10~90% RH | |
| Mechanical | Type of mounting | Bracket and i-bolt (both) | |
| | Material for Fixture | High Grade Aluminium die cast | |
| Safety | Protections (Electronic driver) | Open Loop/ Short Circuit | |
| | | Over Voltage Protection@300V+5V | |
| | | Surge Protection up to 4kV | |
| | Impact Resistance / IK Rating | min 7 | |
| | IP Rating | IP65 or more | |
| LED | Type of LED | SMD only, Make :Lumileds, Cree, Osram, Nichia and LGIT | |
| | LED Beam angle | 120° | |
| | LED Life | 50K hours | |
| Certificate & Warranty | Test report to Submit (Certified by NABL or NABL accredited LAB) | LM79 & LM80, BIS approval for both driver & luminare | |
| | Warranty | 5 years | |

G.T.P.-5
Item Code:M04-L02-00328 (LED TUBE LIGHT)

| Parts | Main Parameters | Reference Data | Parameters of offered item |
|---------------------------------------|--|---|-----------------------------------|
| Electrical (Electronic driver) | System Wattage | 18-20W | |
| | Input Voltage | 240V, 50Hz | |
| | Operating Voltage range | from $\leq 140V$ to $\geq 270V$ AC | |
| | Power factor | ≥ 0.90 | |
| | Other requirements | Retrofitting of Existing FTL , 1200 mm T8. Aluminum Heat sink to be provided. | |
| Optical | Luminous Flux | min 2100 lm | |
| | Color Temperature | 6000K \pm 300K | |
| | CRI | Min 80 | |
| Safety | Protections (Electronic driver) | Open Loop/ Short Circuit | |
| | | Over Voltage Protection@300V+5V | |
| | | Surge Protection up to 2kV | |
| | IP Rating | IP20 or more | |
| LED | Type of LED | SMD only, Make :Lumileds, Cree, Osram, Nichia and LGIT | |
| | LED Beam angle | 120 degree | |
| Certificate & Warranty | Test report to Submit (Certified by NABL or NABL accredited LAB) | LM79 & LM80, BIS approval for both driver & luminare | |
| | Warranty | 5 years | |

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SPECIAL TERM AND CONDITIONS

1. The scope includes supply of different type LED light for existing lighting system at KTPS plant.
2. The standard guarantee for complete fitting will be **60 months** from the date of delivery.
3. The depreciation of light (LUX at floor level) should not be more than 5% per annum. If the depreciation of light (LUX at floor level) is more than 5% per annum with respect to light (LUX at floor level) on date of commissioning, then it will be treated as defective and will be liable to replacement under guarantee.
4. The lux level of each light will be measured in night at floor level in isolation (only light under test will be on, others will be off) below the mounted light under testing.
5. The vendors who qualify after PQR and technical (document verification) will be informed to deliver their LED Light sample (one number each) for testing. The vendor will have to deliver his sample at KTPS, through a returnable gate pass within 15 days of information. The sample lights will be returned within a period of one week.
6. The cost/mode for delivery and collecting the light will have to be arranged and bear by the vendor. KTPS will not be responsible for cost/damage/defect to the led light inside the plant or during transit.
7. Any delay in delivery/non delivery of sample for testing within the prescribed duration will be sufficient ground for technical rejection of bid.
8. The vendors have to submit Performance Bank Guarantee (10 % of order value) for 60 months from the date of Good Receive Note.
9. The defective lights have to be replaced/repaired/made functional within the period of 30 days of reporting. No response/delayed response than stipulated period in attending the problem for even one light will be sufficient ground for revoking the complete bank guarantee.
10. Vendors must have service centre in INDIA.
11. Original product catalogue to be submitted along with offer.
12. The tender will be two parts, technical and commercial separate.
13. Bidder will provide all routine/type test reports as per applicable standards through third party NABL accredited lab in support of technical specification.
14. The manufacturer should be able to provide after sales service for at least 10 years from date of delivery.
15. Every luminary casing should be clearly laser printed by "PROPERTY OF KTPS with PO number".
16. Purchase document /Authorization of LED CHIP Manufacturer to be submitted.

ALL OTHERS TERMS & CONDITIONS REMAIN UNALTERED.

S. MAITY,
Sr. Mgr. (Purchase),
K.T.P.S.
WBPDCCL.