



GOVERNMENT OF TAMIL NADU
DEPARTMENT OF TOURISM
Project Management Unit, IDIPT-TN
Tamil Nadu Tourism Complex, No. 2, Wallajah Road, Chennai – 600 002.

Infrastructure Development Investment Program for Tourism, Tamil Nadu (IDIPT-TN)
Invitation for Bids
(International Competitive Bidding)

Corrigendum No : 1

ADB Loan No : XXXX - IND
Bid Invitation No : 254/PMU/ADB/TECH/2017 date 27.11.2017
Contract Package No : IDIPT/TN/T4/ICB/01/2017
Contract Title : Supply and Installation of Energy efficient lighting at 98 different tourist sites in 18 districts of Tamil Nadu

Corrigendum issued for the bid document

VOLUME 1 – TECHNICAL BID

SI No	Reference to the Bid Document /Section / Clause / Item No	Description as per Uploaded bidding document	Description as per Corrigendum issued bidding document
1	Vol-1 / Sec-6 / Schedule of Supply/Sample fitting	-	Bidders are advised to provide Samples viz.,LED Street Lights,High mast fittings and Decorative LED fittings.

4.0 TECHNICAL SPECIFICATIONS:

HIGHMAST SPECIFICATIONS

1	Vol-1 / Sec-6 / 4.Tech.spec- / 4.1.12.5 Mtrs High mast / Sl.no. 3 – Welding	As per IS 9595	As per IS 9595 / AWS
2	Vol-1 / Sec-6 / 4.Tech.spec / 4.2.16.5 Mtrs High mast / Sl.no 3 – Welding	As per IS 9595	As per IS 9595 / AWS
3	Vol-1 / Sec-6 / 4.Tech.spec / 4.3.20 Mtrs High mast / Sl.no 3 – Welding	As per IS 9595	As per IS 9595 / AWS
4	Vol-1 / Sec-6 / 4.Tech.spec / 4.4.30 Mtrs High mast / Sl.no 3 – Welding	As per IS 9595	As per IS 9595 / AWS

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OCTAGONAL POLE SPECIFICATIONS			
5	Vol-1 / Sec-6 / 4.Tech.spec / 5.1 / - 9 m Single Arm Pole	/10kV SPD	3 kV SPD
6	Vol-1 / Sec-6 / 4.Tech.spec / 5.2 / - 9 m Double Arm Pole	10kV SPD	3 kV SPD
7	Vol-1 / Sec-6 / 4.Tech.spec / 5.3 / - 8 m Single Arm Pole	10kV SPD	3 kV SPD
8	Vol-1 / Sec-6 / 4.Tech.spec / 5.4 / - 7 m Single Arm Pole	10kV SPD	3 kV SPD
9	Vol-1 / Sec-6 / 4.Tech.spec / 5.5 / - 5 m Single Arm Pole	10kV SPD	3 kV SPD
DECORATIVE POLE SPECIFICATIONS			
10	Vol-1 / Sec-6 / 4.Tech.spec / 6.1 / - 5 mtrs Decorative tapered pole	10kV SPD	3 kV SPD
11	Vol-1 / Sec-6 / 4.Tech.spec / 6.3 / - 5 mtrs Decorative light with Pole	L80B10 Up to 100,000 hours / Average ambient temperature - 20 to +50 °C / THD < 20% / IP 66 / IK rating IK10 / Surge protection 6 kV. Pole:The JB shall consist of 10kV (Common/Differential) SPD	L80B10 Up to minimum 50000 hours and above / Average ambient temperature -10 to +45 °C / THD < 10% / IP 65 / IK rating IK 05 / Surge protection 3 kV. Pole:The JB shall consist of 3 kV (Common/Differential) SPD
12	Vol-1 / Sec-6 / 4.Tech.spec / 6.4 / - 7 mtrs Decorative light with Pole	L80B10 Up to 100,000 hours / Average ambient temperature - 20 to +50 °C / THD < 20% / IP 66 / IK rating IK10 / Surge protection 6 kV. Pole:The JB shall consist of 10kV (Common/Differential) SPD	L80B10 Up to minimum 50000 hours and above / Average ambient temperature -10 to +45 °C °C / THD < 10% / IP 65 / IK rating IK 05 / Surge protection 3 kV. Pole:The JB shall consist of 3 kV (Common/Differential) SPD
13	Vol-1 / Sec-6 / 4.Tech.spec / 6.5 / - 7 mtrs Decorative light with Pole	L80B10 Up to 100,000 hours / Average ambient temperature - +25 °C / THD < 20% / IK rating IK 09 / Surge protection 6 kV. Pole:The JB shall consist of 10kV (Common/Differential) SPD	L80B10 Up to minimum 50000 hours and above / Average ambient temperature -10 to +45 °C °C / THD < 10% / IK rating IK 05 / Surge protection 3 kV. Pole:The JB shall consist of 3 kV (Common/Differential) SPD

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CLAUSE – 7 /LUMINARIES SPECIFICATIONS			
14	Vol-1 / Sec-6 / 1.Less Than 20w Street Light	<p>5. Impact resistance - Impact resistance greater than or equal to IK 07 /</p> <p>7. Operating voltage-100-270 volt universal electronic potted driver /</p> <p>8. Frequency - 45 to 55 Hz /</p> <p>9. Power factor- >0.95 /</p> <p>10. Total Current Harmonic Distortion-Total Current Harmonic Distortion should be lesser than 20% /</p> <p>12. LED Luminaire efficacy- 90 Lumens/Watt /</p> <p>15. Correlated Colour temperature - 5000K to 6000 K /</p> <p>18. Make of LED - Reputed Make /</p> <p>21. Driver Specification - 100-270 Volt universal electronic potted driver with Internal surge protection of >4kV both CM and DM. Wide range of voltage to withstand the fluctuation 100-270V. /</p> <p>24. Endorsement / certification - NABL accredited (Third party Certificate) Lab /</p> <p>30. Nil</p> <p>31. Nil</p>	<p>5. Impact resistance - Impact resistance greater than or equal to IK 05 /</p> <p>7. Operating voltage-100-277 volt universal electronic potted driver /</p> <p>8. Frequency 50 to 60 Hz /</p> <p>9. Power factor- >0.9 /</p> <p>10. Total Current Harmonic Distortion-Total Current Harmonic Distortion should be lesser than 10% /</p> <p>12. LED Luminaire efficacy- 95 Lumens/Watt /</p> <p>15. Correlated Colour temperature- Should be restricted to 5700 K /</p> <p>18. Make of LED - CREE , Lumileds , Osram , Nichia, Bidelux and Seoul are accepted /</p> <p>21. Driver Specification - 100-277 Volt universal electronic potted driver with Internal surge protection of >3kV both CM and DM. Wide range of voltage to withstand the fluctuation 100-277 V</p> <p>24. Endorsement / certification - NABL accredited Lab</p> <p>30. Design report to be submitted- Design document must. A design report to be submitted for the following parameters using dialux / calculux software:</p> <ol style="list-style-type: none"> 1. Road width - 5m 2. Mounting height of luminaire above ground level - 5m 3. Spacing between poles - 21m 4. Area over lux level is measured - 21 x 5m 5. No. of Grid points: 10 x 6 6. Maintenance factor - 0.8 7. Avg Lux level - > / = 4 lux 8. Emin/Eavg - > / = 0.3 9. Emin / Emax - > / = 0.2 10. Max tilt of luminaire - max 15 deg 11. Overhang - max 0.5 m/ 31. Amp. temp: -10 to 45 deg C

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15	Vol-1 / Sec-6 / 2.Less Than 38 w Street Light	<p>4.IP – Optical and Control gear compartment- IP 66 /</p> <p>5. Impact resistance - Impact resistance greater than or equal to IK 07 /</p> <p>7. Operating voltage-140-270 volt universal electronic potted driver /</p> <p>8. Frequency - 45 to 55 Hz /</p> <p>10. Total Current Harmonic Distortion-Total Current Harmonic Distortion should be lesser than 20% /</p> <p>11.Systemlumens->3400 lumens</p> <p>15.Correlated Colour temperature - 5000K to 6000 K /</p> <p>18. Make of LED - Reputed Make /</p> <p>21. Driver Specification - 140-270 Volt universal electronic potted driver with Internal surge protection of >10 kV both CM and DM. Wide range of voltage to withstand the fluctuation 140-270V. /</p> <p>24. Endorsement / certification - NABLaccredited (Third party Certificate) Lab /</p> <p>26.Protections -IP66</p> <p>30.Nill</p> <p>31.Nill</p>	<p>4.IP – Optical and Control gear compartment- IP 65</p> <p>5. Impact resistance - Impact resistance greater than or equal to IK 05 /</p> <p>7. Operating voltage-100-277 volt universal electronic potted driver /</p> <p>8. Frequency 50 to 60 Hz /</p> <p>10. Total Current Harmonic Distortion-Total Current Harmonic Distortion should be lesser than 10% /</p> <p>11.System lumens ->3610 lumens</p> <p>15.Correlated Colour temperature- Should be restricted to 5700 K /</p> <p>18. Make of LED - CREE ,Lumileds ,Osram ,Nichia, Bidelux and Seoul are accepted /</p> <p>21. Driver Specification - 100-277 Volt universal electronic potted driver with Internal surge protection of >3kV both CM and DM. Wide range of voltage to withstand the fluctuation 100-277 v</p> <p>24. Endorsement / certification - NABLaccredited Lab</p> <p>26.Protections -IP65 Minimum</p> <p>30. Design report to be submitted- Design document must. A design report to be submitted for the following parameters using dialux / calculux software:</p> <ol style="list-style-type: none"> 1. Road width - 7m 2. Mounting height of luminaire above ground level - 7m 3. Spacing between poles - 28m 4. Area over lux level is measured - 28 x 7m 5. No. of Grid points - 10 x 6 6. Maintenance factor - 0.8 7. Avg Lux level - > / = 8 lux 8. Emin/Eavg - > / = 0.3 9. Emin / Emax - > / = 0.2 10. Max tilt of luminaire - max 15 deg 11. Overhang - max 1.0m 31.Amp.temp: -10 to 45 deg C

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16	Vol-1 / Sec-6 / 3.Less Than 70 w Street Light	<p>4.IP – Optical and Control gear compartment- IP 66 /</p> <p>5. Impact resistance - Impact resistance greater than or equal to IK 07 /</p> <p>7. Operating voltage-140 to 270 volt universal electronic potted driver /</p> <p>8. Frequency - 45 to 55 Hz /</p> <p>10. Total Current Harmonic Distortion-Total Current Harmonic Distortion should be lesser than 20% /</p> <p>11.Systemlumens->6800 lumens</p> <p>15.Correlated Colour temperature - 5000K to 6000 K /</p> <p>18. Make of LED - Reputed Make /</p> <p>21. Driver Specification - 140-270 Volt universal electronic potted driver with Internal surge protection of >10 kV both CM and DM. Wide range of voltage to withstand the fluctuation 140-270V. /</p> <p>24. Endorsement / certification - NABLaccredited (Third party Certificate) Lab /</p> <p>26.Protections -IP66</p> <p>30.Nill</p> <p>31.Nill</p>	<p>4.IP – Optical and Control gear compartment- IP 65</p> <p>5. Impact resistance - Impact resistance greater than or equal to IK 05 /</p> <p>7. Operating voltage-100-277 volt universal electronic potted driver /</p> <p>8. Frequency 50 to 60 Hz /</p> <p>10. Total Current Harmonic Distortion-Total Current Harmonic Distortion should be lesser than 10% /</p> <p>11.System lumens ->6650 lumens</p> <p>15.Correlated Colour temperature- Should be restricted to 5700 K /</p> <p>18. Make of LED - CREE ,Lumileds ,Osram ,Nichia, Bidelux and Seoul are accepted /</p> <p>21. Driver Specification - 100-277 Volt universal electronic potted driver with Internal surge protection of >3kV both CM and DM. Wide range of voltage to withstand the fluctuation 100-277 V</p> <p>24. Endorsement / certification - NABLaccredited Lab</p> <p>26.Protections -IP65 Minimum</p> <p>30. Design report to be submitted- Design document must. A design report to be submitted for the following parameters using dialux / calculux software:</p> <ol style="list-style-type: none"> 1. Road width - 8m 2. Mounting height of luminaire above ground level - 8m 3. Spacing between poles - 30m 4. Area over lux level is measured - 30 x 8m 5. No. of Grid points - 10 x 6 6. Maintenance factor - 0.8 7. Avg Lux level - > / = 15 lux 8. Emin/Eavg - > / = 0.4 9. Emin / Emax - > / = 0.33 10. Max tilt of luminaire - max 15 deg 11. Overhang - max 1m <p>31.Amp.temp: -10 to 45 deg C</p>

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17	Vol-1 / Sec-6 /4.Less Than 180 w Street Light	<p>4.IP – Optical and Control gear compartment- IP 66 /</p> <p>5. Impact resistance - Impact resistance greater than or equal to IK 07 /</p> <p>7. Operating voltage-140 to 270 volt universal electronic potted driver /</p> <p>8. Frequency - 45 to 55 Hz /</p> <p>10. Total Current Harmonic Distortion-Total Current Harmonic Distortion should be lesser than 20% /</p> <p>11.Systemlumens->17000 lumens</p> <p>15.Correlated Colour temperature - 5000K to 6000 K /</p> <p>18. Make of LED - Reputed Make /</p> <p>20.LED Drive Current-Upto 1000mA and should be of single current rating</p> <p>21. Driver Specification - 140-270 Volt universal electronic potted driver with Internal surge protection of >10 kV both CM and DM. Wide range of voltage to withstand the fluctuation 140-270V.The driver should be of potted type. The driver should be of dimmable type /</p> <p>24. Endorsement / certification - NABLaccredited (Third party Certificate) Lab /</p> <p>26.Protections -IP66</p> <p>30.Nill</p> <p>31.Nill</p>	<p>4.IP – Optical and Control gear compartment- IP 65</p> <p>5. Impact resistance - Impact resistance greater than or equal to IK 05 / 7. Operating voltage-100-277 volt universal electronic potted driver / 8. Frequency 50 to 60 Hz / 10. Total Current Harmonic Distortion-Total Current Harmonic Distortion should be lesser than 10% / 11.System lumens ->17100 lumens15.Correlated Colour temperature- Should be restricted to 5700 K / 18. Make of LED - CREE ,Lumileds ,Osram ,Nichia, Bidelux and Seoul are accepted / 20. LED Drive Current-Upto 700 mA and should be of single current rating /21. Driver Specification - 100-277 Volt universal electronic potted driver with Internal surge protection of >3kV both CM and DM. Wide range of voltage to withstand the fluctuation 100-277 v .The driver should be of potted type24. Endorsement / certification - NABLaccredited Lab</p> <p>26.Protections -IP65 Minimum</p> <p>30. Design report to be submitted- Design document must. A design report to be submitted for the following parameters using dialux / calculux software:</p> <ol style="list-style-type: none"> 1. Road width - 9m 2. Mounting height of luminaire above ground level - 9m 3. Spacing between poles - 32m 4. Area over lux level is measured - 32 x 9m 5. No. of Grid points - 10 x 6 6. Maintenance factor - 0.8 7. Avg Lux level - > / = 30 lux 8. Emin/Eavg - > / = 0.4 9. Emin / Emax - > / = 0.33 10. Max tilt of luminaire - max 15 deg 11. Overhang - max 1.5m 31. Amp. temp: -10 to 45 deg C

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18	Vol-1 / Sec-6 / 6.Less Than 165w Floodlight For 12.5 Mtrs High Mast	<p>7. Operating voltage-140 to 270 volt universal electronic potted driver /</p> <p>8. Frequency - 45 to 55 Hz /</p> <p>10. Total Current Harmonic Distortion-Total Current Harmonic Distortion should be lesser than 20% /</p> <p>11.Systemlumens->17000 lumens</p> <p>15.Correlated Colour temperature - 5000K to 6000 K /</p> <p>18. Make of LED - Reputed Make /</p> <p>21. Driver Specification - 140-270 Volt universal electronic potted driver with Internal surge protection of >10 kV both CM and DM. Wide range of voltage to withstand the fluctuation 140-270V.The driver should be of potted type. /</p> <p>24. Endorsement / certification - NABL accredited (Third party Certificate) Lab /</p>	<p>7. Operating voltage-100 to 277 volt universal electronic potted driver /</p> <p>8. Frequency - 50 to 60 Hz /</p> <p>10. Total Current Harmonic Distortion-Total Current Harmonic Distortion should be lesser than 10% /</p> <p>11.Systemlumens->17325 lumens</p> <p>15.Correlated Colour temperature - 5700K /</p> <p>18. Make of LED - CREE ,Lumileds , Osram ,Nichia, Bidelux and Seoul are accepted /</p> <p>21. Driver Specification - 100-277 Volt universal electronic potted driver with Internal surge protection of >3 kV both CM and DM.Wide range of voltage to withstand the fluctuation 100-277V.The driver should be of potted type. /</p> <p>24. Endorsement / certification - NABL accredited Lab /</p>
19	Vol-1 / Sec-6 / 7.Less Than 210 W Floodlight For 20 Mtrs High Mast	<p>5.Impact resistance-Impact resistance greater than or equal to IK 05 /</p> <p>7. Operating voltage-140 to 270 volt universal electronic potted driver /</p> <p>8. Frequency - 45 to 55 Hz /</p> <p>10. Total Current Harmonic Distortion-Total Current Harmonic Distortion should be lesser than 20% /</p> <p>11.System lumens - > 21000 lumens /</p> <p>15.Correlated Colour temperature - 5000K to 6000 K /</p> <p>17.Light distribution-Narrow beam floodlight: The beam angle of the luminaire shall fall at 20-30 degree in 90 - 270 plane and 90-100 degree in 0-180 plane. The luminaire should be mounted in a tilt of 30 to 60 degree from horizontal plane.</p>	<p>5.Impact resistance-Impact resistance greater than or equal to IK 07 /</p> <p>7. Operating voltage-100 to 277 volt universal electronic potted driver /</p> <p>8. Frequency - 50 to 60 Hz /</p> <p>10. Total Current Harmonic Distortion-Total Current Harmonic Distortion should be lesser than 10% /</p> <p>11.Systemlumens->22050 lumens</p> <p>15.Correlated Colour temperature - 5700K /</p> <p>17. .Light distribution- Narrow beam floodlight: The beam angle of the luminaire shall fall at 20-40 degree in 90 - 270 plane and 90-100 degree in 0-180 plane. The luminaire should be mounted in a tilt of 30 to 60 degree from horizontal plane</p>

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	“	<p>18. Make of LED - Reputed Make /</p> <p>21. Driver Specification - 140-270 Volt universal electronic potted driver with Internal surge protection of >10 kV both CM and DM. Wide range of voltage to withstand the fluctuation 140- 270V.The driver should be of potted type. /</p> <p>24. Endorsement / certification - NABL accredited (Third party Certificate) Lab /</p>	<p>18. Make of LED - CREE ,Lumileds , Osram ,Nichia, Bidgelux and Seoul are accepted /</p> <p>21. Driver Specification - 100-277 Volt universal electronic potted driver with Internal surge protection of >3 kV both CM and DM.Wide range of voltage to withstand the fluctuation 100-277V.The driver should be of potted type /</p> <p>24. Endorsement / certification - NABL accredited Lab</p>
20	Vol-1 / Sec-6 / 8.Less Than 245W Floodlight For 30 Mtrs High Mast	<p>5.Impact resistance-Impact resistance greater than or equal to IK 05 / 7. Operating voltage-140 to 270 volt universal electronic potted driver / 8. Frequency - 45 to 55 Hz / 10. Total Current Harmonic Distortion-Total Current Harmonic Distortion should be lesser than 20% /</p> <p>11.Systemlumens->26000 lumens 15.Correlated Colour temperature - 5000K to 6000 K / 18. Make of LED - Reputed Make / 21. Driver Specification - 140-270 Volt universal electronic potted driver with Internal surge protection of >10 kV both CM and DM. Wide range of voltage to withstand the fluctuation 140- 270V.The driver should be of potted type. /17.Light 2. Symmetric beam floodlight: The beam angle of the luminaire shall fall at 20-30 degree in all planes.The luminaire should be mounted in a tilt of 30 to 60degree from horizontal plane.24. Endorsement / certification - NABL accredited (Third party Certificate) Lab /</p>	<p>5.Impact resistance-Impact resistance greater than or equal to IK 07 /</p> <p>7. Operating voltage-100 to 277 volt universal electronic potted driver /</p> <p>8. Frequency - 50 to 60 Hz /</p> <p>10. Total Current Harmonic Distortion-Total Current Harmonic Distortion should be lesser than 10% /</p> <p>11.Systemlumens->26000 lumens 15.Correlated Colour temperature - 5700K /</p> <p>18. Make of LED - CREE , Lumileds , Osram ,Nichia, Bidgelux and Seoul are accepted /</p> <p>21. Driver Specification - 100-277 Volt universal electronic potted driver with Internal surge protection of >3 kV both CM and DM. Wide range of voltage to withstand the fluctuation 100-277V.The driver should be of potted type. /</p> <p>24. Endorsement / certification - NABL accredited Lab /</p>

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21	Vol-1 / Sec-6 / 9. Less Than 107 W LED Floodlight	<p>4. Protection – IP -Optical and Control gear compartment- IP 66 /</p> <p>7. Operating voltage-140 to 270 volt universal electronic potted driver /</p> <p>8. Frequency - 45 to 55 Hz /</p> <p>10. Total Current Harmonic Distortion-Total Current Harmonic Distortion should be lesser than 20% /</p> <p>11. System lumens->11000 lumens</p> <p>15. Correlated Colour temperature - 5000K to 6000 K /</p> <p>18. Make of LED - Reputed Make /</p> <p>21. Driver Specification - 140-270 Volt universal electronic potted driver with Internal surge protection of >10 kV both CM and DM. Wide range of voltage to withstand the fluctuation 140- 270V. The driver should be of potted type. /</p> <p>24. Endorsement / certification - NABL accredited (Third party Certificate) Lab /</p> <p>26. Protections - IP66</p>	<p>4. Protection – IP -Optical and Control gear compartment- IP 65 Min /</p> <p>7. Operating voltage-100 to 277 volt universal electronic potted driver /</p> <p>8. Frequency - 50 to 60 Hz /</p> <p>10. Total Current Harmonic Distortion-Total Current Harmonic Distortion should be lesser than 10% /</p> <p>11. System lumens->11000 lumens</p> <p>15. Correlated Colour temperature - 5700K /</p> <p>18. Make of LED - CREE , Lumileds , Osram , Nichia, Bidgelux and Seoul are accepted /</p> <p>21. Driver Specification - 100-277 Volt universal electronic potted driver with Internal surge protection of >3 kV both CM and DM. Wide range of voltage to withstand the fluctuation 100-277V. The driver should be of potted type. /</p> <p>24. Endorsement / certification - NABL accredited Lab /</p> <p>26. Protections - IP65 Minimum</p>
22	Vol-1 / Sec-6 / 10. RGBW - Colour Changing LED luminaire	<p>2. Make of LED- Reputed Make /</p> <p>11. Lumen maintenance L70 B10 at 50degree- 100000 hours /</p> <p>13. IP /IK Protection- IP66 / IK07 /</p> <p>19. Weight of the Luminaire -34 kg (75 lb) /</p> <p>26. Nil / 27. Nil / 28 . Nil</p>	<p>2. Make of LED- LED makes of CREE, Lumileds, Osram, Nichia, Bidgelux and Seoul are accepted or Equivalent . /</p> <p>11. Lumen maintenance L70 B10 at 50degree- 50000 hours /</p> <p>13. IP /IK Protection- IP65 / IK05 /</p> <p>19. Weight of the Luminaire -35 kg /</p> <p>26. P.F- 0.9 / 27. I/P Fre- 50 to 60 Hz /</p> <p>28 . Amp temp = -10 to 45 deg c</p>
23	Vol-1 / Sec-6 / 11. <23 W Decorative Light	<p>17. Input Frequency-50 Hz /</p> <p>33. Mech. impact protection code- IK09 [10 J] /</p> <p>34. Surge Protection-4/4 kV /</p> <p>41. Useful life L80B10-100000 h /</p> <p>42. Ambient temperature range - 20 to +35 °C</p>	<p>17. Input Frequency-50 to 60 Hz /</p> <p>33. Mech. impact protection code- IK05 /</p> <p>34. Surge Protection-3 kV /</p> <p>41. Useful life L80B10-50000 h /</p> <p>42. Ambient temperature range= -10 to +45 °C</p>

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24	Vol-1 / Sec-6 / 12. < 50 W Decorative Light	18.Input Frequency-50 Hz / 34.Mech. impact protection code- IK10 [10 J] / 34.Surge Protection-4/4 kV / 41.Useful life L80B10-100000 h/ 42. Ambient temperature range - 20 to +35 °C	18.Input Frequency-50 to 60 Hz / 34.Mech. impact protection code- IK05 / 34.Surge Protection-3 kV / 41.Useful life L80B10-50000 h/ 42. Ambient temperature range= -10 to +45 °C
25	Vol-1 / Sec-6 / 13. < 43 W Decorative Light	18.Input Frequency-50 Hz / 33.Ingress protection code - min IP66 / 34.Mech. impact protection code- IK09 [10 J] / 35.Surge Protection-10kV / 41.Useful life L80B10-100000 h/ 42. Ambient temperature range -20 to +50 °C	18.Input Frequency-50-60 Hz / 33.Ingress protection code -min IP65 / 34.Mech. impact protection code- IK05 / 35.Surge Protection-3 kV / 41.Useful life L80B10-50000 h/ 42. Ambient temperature range = -10 to +45 °C
VOLUME-II			
26	Vol-2 / Boq Item no.4 /12.5 Mtrs High mast	The suspension system should essentially be without any intermediate joint and should consist of only non-corrodible stainless steel of AISI 316 grade.	The suspension system should essentially be with or without any intermediate joint and should consist of only non-corrodible stainless steel of AISI 316 grade.
27	Vol-2 / Boq Item no 6 /16 Mtrs High mast	-	The suspension system should essentially be with or without any intermediate joint and should consist of only non-corrodible stainless steel of AISI 316 grade.. The installation and maintenance of the luminaries and lamps, it will be necessary to lower and raise the Lantern Carriage Assembly. To enable this, a suitable Winch Arrangement should be provided, with the winch fixed at the base of the mast and the specially designed head frame assembly at the top.
28	Vol-2 / Boq Item no 8 / 20 Mtrs High mast	-	The suspension system should essentially be with or without any intermediate joint and should consist of only non-corrodible stainless steel of AISI 316 grade. The installation and maintenance of the luminaries and lamps, it will be necessary to lower and raise the Lantern Carriage Assembly. To enable this, a suitable Winch Arrangement should be provided, with the winch fixed at the base of the mast and the specially designed head frame assembly at the top.

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29	Vol-2 / Boq Item no 10 / 30 Mtrs High mast	-	The suspension system should essentially be with or without any intermediate joint and should consist of only non-corrodible stainless steel of AISI 316 grade. The installation and maintenance of the luminaries and lamps, it will be necessary to lower and raise the Lantern Carriage Assembly. To enable this, a suitable Winch Arrangement should be provided, with the winch fixed at the base of the mast and the specially designed head frame assembly at the top.
30	Vol-2 / Boq Item no 12 / 9M Octagonal Pole	The pole should be supplied with junction box with loop in loop out connection consisting of 10kV SPD and 2A cartridge type fuse & Equivalent to Design standard	The pole should be supplied with junction box with loop in loop out connection consisting of 3 kV SPD and 2A cartridge type fuse with necessary earthing interconnections & Equivalent to Design standard.
31	Vol-2 / Boq Item no 14 / 9M Octagonal Pole : (Double Arm)	The pole should be supplied with junction box with loop in loop out connection consisting of 10kV SPD and 2A cartridge type fuse 2 nos & Equivalent to Design standard.	The pole should be supplied with junction box with loop in loop out connection consisting of 3 kV SPD and 2A cartridge type fuse 2 nos with necessary earthing interconnections & Equivalent to Design standard.
32	Vol-2 / Boq Item no 16 / 8M Octagonal Pole	The pole should be supplied with junction box with loop in loop out connection consisting of 10kV SPD and 1A cartridge type fuse & Equivalent to Design standard.	The pole should be supplied with junction box with loop in loop out connection consisting of 3 kV SPD and 1A cartridge type fuse with necessary earthing interconnections & Equivalent to Design standard
33	Vol-2 / Boq Item no 18 / 7 M Octagonal Pole	The pole should be supplied with junction box with loop in loop out connection consisting of 10kV SPD and 1A cartridge type fuse & Equivalent to Design standard	The pole should be supplied with junction box with loop in loop out connection consisting of 3 kV SPD and 1A cartridge type fuse with necessary earthing interconnections & Equivalent to Design standard
34	Vol-2 / Boq Item no 20 / 5 M Octagonal Pole	The pole should be supplied with junction box with loop in loop out connection consisting of 10kV SPD and 1A cartridge type fuse & Equivalent to Design standard	The pole should be supplied with junction box with loop in loop out connection consisting of 3 Kv SPD and 1A cartridge type fuse with necessary earthing interconnections & Equivalent to Design standard
35	Vol-2 / Boq Item no 22 / 5 mtrs decorative tapered pole	The JB should consist of 10kV (Common/Differential) SPD.	The JB should consist of 3 kV (Common/Differential) SPD

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36	Vol-2 / Boq Item no 26 / 20 w with 95 Lm/W or Equivalent LED Light:	Impact resistance > = IK07 standards / Power factor-> 0.95 / Surge Protection of 4KV / The efficacy of the luminaire should not be less than 90 lm / W / , Total Harmonic Distortion < 20 %	Impact resistance > = IK 05 standards / Power factor-> 0.9 / Surge Protection of 3 KV / , Total Harmonic Distortion < 10 %/ The efficacy of the luminaire should not be less than 95 lm / W / LED makes of CREE ,Lumileds , Osram , Nichia, Bidelux and Seoul are accepted.
37	Vol-2 / Boq Item no 27 / 38 w with 95 Lm/W or Equivalent LED Light	Impact resistance > = IK07 standards / Operating voltage 140-270 volt Surge Protection of 10 KV / Total Harmonic Distortion < 20 %/ lumen output 3400	Impact resistance > = IK 05 standards /Surge Protection of 3 KV / LED makes of CREE ,Lumileds , Osram , Nichia, Bidelux and Seoul are accepted/ Total Harmonic Distortion <10 %/ lumen output 3610.
38	Vol-2 / Boq Item no 28 / 70 w with 95 Lm/W or Equivalent LED Light	IP 66 / Impact resistance > = IK07 standards / Power factor-> 0.95 / Operating voltage 140-270 volt Surge Protection of 10 KV / Total Harmonic Distortion < 20 % / lumen output 6800	IP 65 / Impact resistance > = IK 05 standards / Power factor-> 0.9 / Operating voltage 100-277 volt / Surge Protection of 3 KV / LED makes of CREE ,Lumileds , Osram , Nichia, Bidelux and Seoul are accepted/ Total Harmonic Distortion <10 % / lumen output 6650.
39	Vol-2 / Boq Item no 29 / 180 w with 95 Lm/W or Equivalent LED Light	IP 66 / Impact resistance > = IK07 standards / Power factor-> 0.95 / Operating voltage 140-270 volt / Surge Protection of 10 KV / Total Harmonic Distortion < 20 % / lumen output 17000	IP 65 / Impact resistance > = IK 05 standards / Power factor-> 0.9 / Operating voltage 100-277 volt /Surge Protection of 3 KV / LED makes of CREE ,Lumileds , Osram , Nichia, Bidelux and Seoul are accepted/ Total Harmonic Distortion <10 % / lumen output 17100
40	Vol-2 / Boq Item no 30 / 165 W with 105 Lm/W or Equivalent Asymmetric Led Light:	The system lumen output should not be less than 17000 lumen/ THD < 20%./ The luminaire should be with >=IK05 / The operating voltage should be 140-270V AC.	The system lumen output should not be less than 17325 lumen/ THD < 10%./ The luminaire should be with >=IK07 / The operating voltage should be 100-277 AC.
41	Vol-2 / Boq Item no 31 / 210 W with 105 Lm/W or Equivalent Asymmetric Led Light:	The system lumen output should not be less than 21000 lumen/ THD < 20%./ The luminaire should be with >=IK05 / The operating voltage should be 140-270V AC.	The system lumen output should not be less than 22050 lumen/ THD < 10%./ The luminaire should be with >=IK07 / The operating voltage should be 100-277 AC.
42	Vol-2 / Boq Item no 32 / 210 W with 105 Lm/W or Equivalent Symmetric Led Light:	The system lumen output should not be less than 21000 lumen/ THD < 20%./ The luminaire should be with >=IK05 / The operating voltage should be 140-270V AC.	The system lumen output should not be less than 22050 lumen/ THD < 10%./ The luminaire should be with >=IK07 / The operating voltage should be 100-277 AC.

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43	Vol-2 / Boq Item no 33 / 245 W with 105 Lm/W or Equivalent Asymmetric Led Light:	The system lumen output should not be less than 26000 lumen/ THD < 20%./ The luminaire should be with >=IK05 / The operating voltage should be 140-270V AC.	The system lumen output should not be less than 26000 lumen/ THD < 10%./ The luminaire should be with >=IK07 / The operating voltage should be 100-277 AC.
44	Vol-2 / Boq Item no 34 / 245 W with 105 Lm/W or Equivalent Symmetric Led Light:	The system lumen output should not be less than 26000 lumen/ THD < 20%./ The luminaire should be with >=IK05 / The operating voltage should be 140-270V AC.	The system lumen output should not be less than 26000 lumen/ THD < 10%./ The luminaire should be with >=IK07 / The operating voltage should be 100-277 AC.
45	Vol-2 / Boq Item no 35 /107 W with 95 Lm/W or Equivalent Flood Light	The luminaire should have an efficacy > 95 lm /W./ THD < 20%./ The operating voltage should be 140-270V AC	The luminaire should have an efficacy > 100 lm /W./ THD < 10%./ The operating voltage should be 100-277 V AC
46	Vol-2 / Boq Item no 36 /275 W Exterior Light (RGBW)	IP 66 / Operating Voltage range between 100VAC to 240VAC. / lumen maintenance of 50% at 100000 burning hours / Data formatting device should operate on 230VAC mains with Operating Voltage range between 100-240V AC / Ambient temperature -10 to 50 degree Celsius.	IP 65 / Operating Voltage range between 100VAC to 277 VAC. / lumen maintenance of 50% at 50,000 burning hours / Data formatting device should operate on 230VAC mains with Operating Voltage range between 100-277V AC / Ambient temperature -10 to 45 degree Celsius./ I/P Freq =50 to 60 Hz
47	Vol-2 / Boq Item no 37 / Decorative Pole with Light : (For < 43 W LED - 5 mtrs)	L80B10 Up to 100,000 hours/Average ambient temperature -20 to +50 °C/ THD < 20% /IP66 / IK rating IK10 / Surge protection 6 kV / The JB should consist of 10kV (Common/Differential) SPD.	L80B10 Up to 50,000 hours/Average ambient temperature -10 to +45°C/ THD < 10% / IP65 / IK rating IK05 / Surge protection 3 kV / The JB should consist of 3 kV (Common/Differential) SPD.
48	Vol-2 / Boq Item no 39 / Decorative Pole with Light : (For < 43 W LED - 5 mtrs)	L80B10 Up to 100,000 hours/Average ambient temperature -20 to +50 °C/ THD < 20%. / IP66 / IK rating IK10 / Surge protection 6 kV / The JB should consist of 10kV (Common/Differential) SPD.	L80B10 Up to 50,000 hours/Average ambient temperature -10 to +45°C/ THD < 10% / IP65 / IK rating IK05 / Surge protection 3 kV / The JB should consist of 3 kV (Common/Differential) SPD.
49	Vol-2 / Boq Item no 41 / Decorative Pole with Light : (For < 50 W LED - 7 mtrs)	L80B10 Up to 100,000 hours/Average ambient temperature -20 to +50 °C/ THD < 20% IK rating IK09 / Surge protection 6 kV / The JB should consist of 10kV (Common/Differential) SPD.	L80B10 Up to 50,000 hours/Average ambient temperature -10 to +45°C/ THD <10%/ IK rating IK05 / Surge protection 3 kV / The JB should consist of 3 kV (Common/Differential) SPD.
50	Vol-2 / Boq Item no 43 / Decorative Light : (<23 W LED for 5 mtrs)	L80B10 Up to 100,000 hours/Average ambient temperature +25 °C / THD < 20% IK rating IK09 / Surge protection 4 kV	L80B10 Up to 50,000 hours/Average ambient temperature -10 to +45°C / THD <10% IK rating IK05 / Surge protection 3 kV

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51	Vol-2 / Boq Item no 44 / Decorative Light : (<23 W LED for 7 mtrs)	L80B10 Up to 1,00,000 hours/Average ambient temperature +25 °C / THD < 20% IK rating IK09 / Surge protection 4 kV .	L80B10 Up to 50,000 hours/Average ambient temperature -10 to +45 °C / THD < 10% IK rating IK05 / Surge protection 3 kV .
52	Vol-2 / Boq Item no 50	Supply, installation, testing and commissioning Voltage Stabiliser 5 KVA	Supply, installation, testing and commissioning Voltage Stabiliser 5 KVA with necessary earth connections to complete the work.
53	Vol-2 / Boq Item no 57	Earthing as per CEIG standard specification with an earth electrode of 2.1 mtr class B GI Pipe of Dia not less than 40 mm , Copper earth plate of size 125 mmx 50mm x 6 mm with necessary funneling arrangements with necessary masonry work and with 38 mm RCC cover slab for the brick masonry ,to complete Chamber & mansory work.	Supply and erection of earthing as per ISI specification with an earth electrode of 2.1 mtr class B GI Pipe of Dia not less than 40 mm , Copper earth plate of size 125 mmx 50mm x 6 mm with necessary funneling arrangements with necessary masonry work and with 38 mm RCC cover slab for the brick masonry ,to complete Chamber & mansory work. (As per SD-233)
54	Vol-2 / Boq Item no 58	Earthing as per CEIG standard specification with an earth electrode of 2.1 Mtr class B GI pipe of Dia 32 mm complete with necessary complete Chamber & mansory work.	Supply and erection of earthing as per P.W.D standard specification with an earth electrode of 2.1 Mtr class B GI pipe of Dia 32 mm complete with necessary complete Chamber & mansory work. (As per SD-234)



GOVERNMENT OF TAMILNADU
DEPARTMENT OF TOURISM
Project Management Unit, IDIPT-TN
Tamil Nadu Tourism Complex, No. 2, Wallajah Road, Chennai – 600 002.

Infrastructure Development Investment Program for Tourism, Tamil Nadu (IDIPT-TN)
Invitation for Bids (International Competitive Bidding)

EXTENSION OF DATE FOR SUBMISSION

Date	:	03 February, 2018
Loan No and Title	:	ADB Loan no: 40648-IND - Infrastructure Development Investment Program for Tourism, Tamil Nadu (IDIPT-TN) –Tranche 4
Contract No and Title	:	IDIPT/TN/T4/ICB/01/2017 - Supply and Installation of Energy Efficient Lighting at 98 different tourist sites in 18 districts of Tamil Nadu.
Original Dead line for Submission of Bids	:	18 January,2018, 15:00 Hrs (local time)
Extended Dead line for Submission of Bids	:	28 February, 2018, 15:00 Hrs (local time)

Note:

Other terms & Conditions of the Invitationfor bids will remain unaltered

Further any clarification/Corrigendum/ amendment or extension shall be notified on website: www.tenders.tn.gov.in, www.tamilnadutourism.org only.

Tamil Nadu, India

Phone No: 044-25333859

Commissioner of Tourism

Project Director

IDIPT-TN