

**Tender No. EL/WK/2813**

**Pre-Bid Clarification**

**"Providing illumination to the pipe line in the license area of DPA as per PFSAC (As per ISPS code) by the side of K.K. Road at Kandla"**

Sr. No.	Section No.	Clause No.	Tender Condition	Queries of Bidders	Clarification
				<p>Tender specification authorization from High mast OEM for technical support during erection and service support to the bidder till end of warranty period .</p> <p>ISO 9001, ISO 14001, ISO 45001 Certificate of High Mast manufacturing unit</p> <p>OEM of high mast should have manufacturing experience for minimum 5 years</p> <p>Type test report for "Structural stability" of High mast (<math>\geq</math> 20 M Height) from NABL accredited / Government approved test house. Type test report should not be <math>&gt;</math>5 years old</p> <p>Certificate of approved structural design calculation process of OEM by IIT or any Government engineering college</p>	<p>The contractor (except manufacturer of High Mast) shall submit a letter from the OEM of High Mast stating that they will extend their support since commencement till expiry of the guarantee period.</p> <p>All the relevant ISO Certificate shall be produced by the contractor from the Manufacturer of High Mast.</p> <p>Not applicable.</p> <p>Type test report (Shall not be more than five years old) for "Structural stability" of High mast (<math>\geq</math> 20 M Height) from NABL accredited / Government approved testing agency shall be submitted after awarding of contract.</p> <p>The contractor shall submit the Structural Stability Certificate for Structural Design of High Mast from any IIT or any Institute/ University of Gujarat Government. The cost incurred towards the certification/vetting shall be borne by the contractor. The Structural</p>

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				<p>Type test report of which gear system by IIT/NIT Type test report should not be &gt;5 years old.</p>	<p>Stability Certificate along with vetted structural design report of high mast shall be submitted to Engineer-in-Charge, DPA before undertaking manufacture of High Mast.</p> <p>A test certificate, not older than five years shall be furnished by the contractor after awarding of contract from the original equipment manufacturer, for each winch in support of the maximum load operated by the winch. The winch shall be type tested and the type test report shall be submitted. The winch shall be type tested in presence of Institutions like IIT's, NIT's.</p>
				<p>Wind tunnel test report for 20 sides polygonal structure by IIT / NIT, Type test report should not be &gt;5 years old luminaire</p>	<p>Manufacturer of the mast must have conducted Wind Tunnel testing by IIT/NIT on their mast sample. Parameters considered for design shall be taken from the Wind Tunnel testing.</p>
				<p>Design services life- Dynamic Loading for the mast- Mast structure shall be</p>	<p>The high mast structure with luminaries etc. all fixed and lantern</p>

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				<p>suitable to sustain as assumed maximum reaction arising from a wind speed as per IS 875 and shall be measured at a height of 10 meters above ground level</p>	<p>carriage shall be capable of withstanding the external forces exerted on it by wind speed as specified in IS 875, part 3, 1987 with an adequate load factor. Essentially mast should be capable of withstanding the 3-second gust of 55 m/sec. The factor of safety for wind load shall be 1.25 and for other loads 1.15</p>
				<p>Kindly provide schedule B – Lantern carriage- It shall be suitable for symmetric &amp; asymmetric loading as per the requirement of schedule-B</p>	<p>The bidder shall visit the site and accordingly submit the design of high mast suitable for symmetric &amp; asymmetric loading.</p>
				<p>Kindly clarify (inner &amp; outer page 35 of 56) Lantern carriage-The 360 (inner outer page 35 of 56 ) Lantern carriage shall be fabricated in two halves and joined bolted flanges</p>	<p>(inner &amp; outer page 35 of 56) Lantern carriage-The 360 (inner outer page 35 of 56 ) The sentence may be deleted, it is a typographical error.</p>
				<p>Request you to provide reference foundation drawing for pricing purpose- Erection, Testing, commissioning –The foundation of high mast shall be Raft foundation. However, before making a civil foundation for high mast towers, firm shall take drawing/items approval</p>	<p>Raft foundation should be accepted. However, the foundation design shall be approved by Civil Engineering Department of DPA.</p>

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3	Section -I	6	Joint Venture: Not applicable.	form concern civil Department or as direction by EIC  As per current tender Joint Venture is not allowed. We request you to kindly allow J.V. as half of the value of this tender is of civil work. For better execution of work, we request you to allow the J.V. so that both portion of the work i.e. civil & electrical can be done effectively and timely.	Joint Venture is not allowed and tender condition holds good.
4	Section -I	4.1 (b)	Similar Work definition SITC of Illumination System with High Mast along with HT & LT Electrical Distribution System for any Government or Public Sector Undertaking or any reputed Industrial Organisation or Industry/Company in private sector	SITC of Illumination System with High Mast along with HT & LT Electrical Distribution System for any Government or Public Sector Undertaking or any reputed Industrial Organization or Industry/ Company in private sector.  We are existing contractor of DPA. We have already executed 2 major High Mast illumination system projects of DPA i.e. 16 <sup>th</sup> berth and 34 H high mast.  We have experience of both H.M. work & HT and LT distribution system but in separate work orders, we request you to please allow the bidder who has	Similar Work Definition may be read as under: SITC of Illumination System with High Mast along with HT/LT Electrical Distribution System for any Government or Public Sector Undertaking or any reputed Industrial Organisation or Industry/Company in private sector

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				experience of both but in separate work orders to participate in the tender.	
5	Section – V	Technical Specification No. 10	Sr. No. 2: Input Voltage AC: 90-300V	Please allow: Input Voltage AC: 120-300V	This technical specification may be read as under: Sr. No. 2: Input Voltage AC: 120-300 V
6	Section – V	Technical Specification No. 10	Sr. No. 19: Ingress protection: IP67	Please allow: Ingress protection: IP 66 Please consider IP66 (no glue) for outdoor environment. IP67 is normally recommended for partially submerged in water application	This technical specification may be read as under: Sr. No. 19: Ingress protection: IP66
7			Similar Work definition SITC of Illumination System with High Mast along with HT & LT Electrical Distribution System for any Government or Public Sector Undertaking or any reputed Industrial Organisation or Industry/Company in private sector	SITC of Illumination System with LT Electrical Distribution System for any Government or Public Sector Undertaking or any reputed Industrial Organization or Industry/Company in private sector.	Please refer Clarification at Sr. No. 4 above.
8	Section – V	Technical Specification No. 10	Sr. No. 4: Life: 50,000 glow hrs.	Request for Amendment: System Burning Hours Should be 50,000.	This technical specification may be read as under: Sr. No. 4: Life: 50,000 burning hours @ L70B50, Ta 35°C Outdoor
9			Sr. No. (6) Total Harmonic Distortion: <15% maximum	Total Harmonics Distortion should be <10% at full load for better system stability	This technical specification may be read as under:

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Sr. No.	Section No.	Clause No.	Tender Condition	Queries of Bidders	Clarification
10			Sr. No. (10) Colour rendering index: >75	Market Standard is >70 OR >80.	Sr. No. (6) Total Harmonic Distortion: ≤10%. This technical specification may be read as under: Sr. No. (10) Colour rendering index >70
11			Sr. No. (11) Lumens / Watt: 105Lum/W	Lumen Efficacy should not be less than 130lm/w @system level for power saving. in current scenario globally flood lights are using with 130lm/w system efficacy. lower efficacy has poor and cheaper quality of led.	This technical specification may be read as under: "Sr. No. (11) Lumens / Watt: ≥130 Lumen/W."
12			Sr. No. (14) Warrantee: Minimum 02 Year	All Reputed makes are offering warranty of 5 years on flood lights so please consider 5 years	This technical specification may be read as under: "Sr. No. (14) Warrantee: Minimum 5 Year from the date of completion of the work."
13			Sr. No. (17) Lamp Housing: Pressure Die cast aluminum housing	Lamp Housing Should Be of Single Piece Pressure Die Cast for Better Heat Dissipation and for Long Life	This technical specification may be read as under: Sr. No. (17) Lamp Housing: "The housing should be of non-corrosive powder coated pressure die-cast aluminum frame with heat resistant toughened clear glass fixed with SS screw."

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14	<b>Section – V</b>	Technical Specification No. 10	LED CHIP	*NOT PART OF TENDER BUT NEED TO INCLUDE  Led chip should be high power ceramic based led not more than 3w (lm80 reports to be submitted along with tender bidding)	The LED flood light fitting shall not be of modular type.  The LED Flood Light shall have its make embossed/engraved on the Fitting."  This technical specification may be read as under: Led chip should be high power ceramic based led not more than 3w (lm80 reports to be submitted along with tender bidding)
15			SURGE PROTECTION	4KV internal inbuilt within driver and 20KV external	This technical specification may be read as under: Surge protection shall be 4KV internal inbuilt within driver and 20KV external.
16			ADDITIONAL PROTECTION	440V (Phase to Phase protection for 8 hours)  High cut-off @325 + _ 15V and Auto Restart	This technical specification may be read as under: 440V (Phase to Phase protection for 8 hours)  This technical specification may be read as under: High cut-off @325 + _ 15V and Auto Restart

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				500 hrs. NSS salt painting recommended for port area	This technical specification may be read as under: 500 hrs. NSS salt painting recommended for port area

Note: In Section VI Bill of Quantities (BOQ), item no. 14, Technical specification no. 26 may be read as Technical specification no. 14 and item no. 15, Technical specification no. 27 may be read as Technical specification no. 15.

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