

Ref.: DA/2-4/2016/T01/16-1

Date: March 15, 2016

Circular No. (1)

Reference: **TENDER 01/2016 – Automatic Street Lighting Control and Operation System at Duqm in Sultanate of Oman**

Tender Documents Collection date: 22nd Feb 2016 Submission date: Tuesday/05th April 2016
Site Visit: 08th March 2016

Subject: Reply to Queries

Reference to the bidder's clarification on the above subject, kindly see the attached reply to queries for your kind action and record.

NOTES:

- All Bidders are to endorse this Circular and attach it as part of their tender submission.
- **Last date** for the further Queries/ Clarifications shall be **Tuesday/22nd March 2016.**
- Submission (Closing) Date of tender: **Tuesday/05th April 2016 at 12h00, Muscat Time.**

Kind regards



SEZAD, Tenders & Contracts



S.No.	Query	Response
1.	What are different ratings for the existing HPSV lamp -rating and quantity Of each?(100w,150watts,400watts&Quantity of each)	Please see table -1 below and revised Tender BOQ Sheet 35
2	Detailed Specification of existing Ballast? Where is the existing Ballast installed in the Lighting column? Is it at the top or at the bottom of the pole	Please refer to table-1. Ballast are installed inside the lighting fixture on top
3	Dimension of space available inside Column &Feeder pillar (for each type, if more than one type of lighting column)	Syra Control Devices / equivalent are to be installed near cut out box inside standard lighting column. Contractor to check & make suitable arrangement for installation. Feeder pillars are standard conventional feeder pillars and availability of space can be judged. Site visit was arranged on 8 th Mar, 2016 to show inside space for feeder pillar & columns
4	Specification &dimension of Lighting Co1umn &Feeder pillar (for each type, if more than one type of lighting co1umn)	Columns are 16m to 18m heights Feeder pillars are conventional feeder pillars as per Oman standard
5	what is power line communication 1,024 protoco1	In this signal is transmitted through the existing electrical power cable by modulation and demodulation. Signals can be coded & decoded. No additional cables are required.
6	Details of lamp distribution from each feeder pillar	Please refer to overall street lighting layout drawings, it is mentioned there.
7	Confirmation that SEZAD will be providing SIM cards for GSM communication Furniture for control Room	SIM cards have to be provided by contractor. Necessary furniture desktop if required will be provided by contractor. SEZAD prefers to be wall mounted or self-standing screens.
8	Are you open to the wireless communication from the light controller to the feeder instead of PLC	SEZAD open to wireless communication as long as system is robust and function able



<p>9</p> <p>What is the requirement for the monitoring stations? How many? What would be the size of monitoring screens in the monitoring stations?</p>	<p>Please follow tender. Only one monitoring station will be there. Monitor screens should be of suitable size so as to see the overall street lighting layout plan in one screen. There should be one standby screen</p>
<p>10</p> <p>How the monitoring station will operate? Would you prefer a resource deputed from. The contractor or it will be "On Call" basis? If it is 'On Call' basis what is the response time expected from Contractor? Please elaborate what level of services are expected</p>	<p>Monitoring station will not be manned. Monitoring station will be interfaced through mobile devices and authorized engineer will take necessary action to call contractor on call basis. Response time 24 hours</p>

Table 1

S.No.	Lamps Watt	Number of Poles(16m to 18m heights)	Remarks
1	2x250	50	Same devices to
2	4x250	100	control HPSV lamps
3	1x400	150	with electronic
4	2x400	750	ballast up to
5	3x400	50	400Watt. Hence in
6	4x400	500	BOQ 250Watt is not
7	2x600	330	separately listed Electromagnetic ballast



Revised Bill of Quantities Revised sheet 35 of Tender T01/2016

<u>BILL OF QUANTITIES</u>						
Item No.	Description	Unit	Estimated Quantity	Unit Rate/Unit (R.O.)		Amount (R.O.)
				In words	In figures	
	CONDITIONS OF CONTRACT The Contractor is deemed to have carefully studied, understood, and taken into account the provisions and requirements of the Contract.					
1	Preliminary					
1.1	Mobilization, demobilization, site inspection and investigations, report, authority consultations and approvals etc.	LS	1			
2	Design, procurement, installation, programming, testing and commissioning of the Automatic Control System for the operation and maintenance of street lighting luminaires as per scope of works, drawings, applicable standards, MOTC specifications and Authorities requirements with the following devices or equipment.					
2.1	SYRA/ Equivalent devices at Lighting pole Level					
2.1.1	Syra devices/ equivalent devices at lighting columns with four luminaire Diagnosis, ON/OFF command and dimming, to control up to 400W lamps equipped with Electronic ballast, installed in the armature. Power	Nos	600			



BILL OF QUANTITIES

Item No.	Description	Unit	Estimated Quantity	Unit Rate/Unit (R.O.)		Amount (R.O.)
				In words	In figures	
2.1.2	Syra devices/ equivalent devices at lighting columns with three luminaire Diagnosis, ON/OFF command and dimming, to control up to 400W lamps equipped with electronic ballast, installed in the armature. Power Line Communication 1,024 protocol. Protection degree IP65 box, IP20 clamps.	Nos	50			
2.1.3	Syra devices/ equivalent devices at lighting columns with two luminaire Diagnosis, ON/OFF command and dimming, to control up to 400W lamps equipped with Electronic ballast, installed in the armature. Power Line Communication 1,024 protocol. Protection degree IP65 box, IP20 clamps.	Nos	800			
2.1.4	Syra devices/ equivalent devices at lighting columns with one luminaire Diagnosis, ON/OFF command and dimming, to control up to 400W lamps equipped with Electronic ballast), installed in the armature. Power Line Communication 1,024 protocol. Protection degree IP65 box, IP20 clamps.	Nos	150			
2.1.5	Syra devices/ equivalent devices at lighting columns with two luminaire Diagnosis, ON/OFF command and dimming, to control up to 600W lamps equipped with Electromagnetic ballast, installed in the armature. Power Line Communication 1,024 protocol. Protection degree IP65 box, IP20 clamps.	Nos	330			

