

### Bid Document

Bid Details	
Bid End Date/Time	25-07-2020 19:00:00
Bid Opening Date/Time	25-07-2020 19:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	30 (Days)
Ministry/State Name	Gujarat
Department Name	Gujarat Industrial Development Corporation (gidc)
Organisation Name	N/a
Office Name	Head Office Gandhinagar
Total Quantity	20
Item Category	Smart Panel
Bidder Turnover (Last 3 Years)	7 Lakh (s)
OEM Average Turnover (Last 3 Years)	56 Lakh (s)
MSE Exemption for Years of Experience and Turnover	No
Startup Exemption for Years of Experience and Turnover	No
Document required from seller	Bidder Turnover,OEM Authorization Certificate,OEM Annual Turnover *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer
Bid to RA enabled	No
Inspection Required	No

### EMD Detail

Required	No
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### ePBG Detail

Required	No
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### Splitting

Bid splitting not applied.

1. OEM Turn Over Criteria: The minimum average annual financial turnover of the OEM of the offered product during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the OEM is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.

## Smart Panel ( 20 pieces )

### Technical Specifications

\* As per GeM Category Specification

Specification	Specification Name	Values	Bid Requirement (Allowed Values)
Specification	SMART PANEL, SMART MONITORING & CONTROLS	A standalone unit to be placed at feeder level containing, Cluster Energy Meter, Relay Controller Unit, MCB, Change Over/Bypass arrangement.	*
	Enclosure should be made of MS Galvanized powder coated or SMC material having IP 65 rate ingress protection and shall have proper lock arrangement	Yes	*
	It shall be protected by an MCB at its AC mains input	Yes	*
	Lamp load connection shall be through an output automated contactors	Yes	*
	Separate Chamber for Input/output MCB and Change over Circuit for maintenance and manual operation	Yes	*
	Door open detection provision should work even in case of power failure through integrated power backup	Yes	*

Should be capable of circuit wise control of street light fixtures up to 10 KVA street lighting load distributed in three phase as per site requirement	Yes	*
The system should be designed that on each smart feeder panel not more than 100 LED fixtures to be operated	Yes	*
On each smart feeder panel there should be at least two outgoing lighting circuits each having 45 to 50 LED fixtures approximately	Yes	*
It should be complete with all required switching and protecting devices, contactors, timers, relays, sensors, controller, remote wireless communication devices, wiring, pipe earthing, surge protection device, required software, web server, hosting, etc	Yes	*
Circuit wise remote ON/OFF switching of street lights	Yes	*
Monitoring of quantity and electrical parameters of circuit wise full or partially /ON/OFF of street lights in each phase	Yes	*
Visual inspection for dimensional check-up, completeness of the equipment as per the manufacturer's documents, furnishing the list of missing components, if any, tightness of all the terminals/equipment, etc	Yes	*
Measuring IR value, High voltage test	Yes	*

	Testing of protective relays with primary and secondary injection test, wherever applicable	Yes	*
	Simulation test for all the interlocks, annunciations and for the correct operations of the switchgear	Yes	*
	Testing of oil for de-electric strength, wherever applicable	Yes	*
	Any other tests as recommended by Site Engineers/ Site -in-Charge	Yes	*
	All the switchgears shall be cleaned with vacuum cleaners before commissioning, Plugging/ Sealing of all the unused cut outs for the cable glands in the equipment, All panels shall be double earthed with two separate earthing pits	Yes	*
	Smart Panel Features		
	Input to the Switching Point shall be Single / 3 phase grid power input and with 3 phase output for load	Yes	*
	Smart feeder panel shall able to measure Voltage, Current, Power Factor, Active Power, Apparent Power, Metering Cumulative Active Energy, Metering Cumulative Apparent Energy	Yes	*
	Communication	GPRS communication between Smart feeder panel and Server/Cloud	*
	Shall able to calculate LED Luminaires Glowing Hours	Yes	*
	Able to calculate number of hours mains supply not available	Yes	*
	Alerts	i. Phase wise over	*

		current/Short circuit ii. Phase wise over voltage iii. Group failure of lights iv. Individual Light failure v. No output supply	
	E-meter	3 phase 10-60A Class 1 accuracy meter with ISI/IS-13779	*
	Battery Backup	Smart feeder panel supports battery backup up to 48 hours	*
	Smart feeder panel unit shall analog measurement capability	1 x Analog voltage, 1 x Current input measurement channels	*
	Smart feeder panel VA rating	20kVA for 10kVA load	*
	Enclosure	Plastic/Metallic ;IP65 grade	*
	Smart feeder panel should allow upper and lower cutoff voltage as per user preference	Yes	*
Web application Requirements	Control and Monitoring	i. Allows user to communicate with networked luminaires in group. ii. Allows user to communicate with group of Smart Luminaires under particular switching point	*
	The Group of Luminaire Status such as ON hours, voltage, current, power, Energy consumed, and operating Mode (Auto/Manual) shall be monitored	Yes	*
	Remote configuration	It is possible to configure switching points through we application. Remote configuration includes new ON/OFF timings, RTC time, Real time data of each switching point, Energy meter parameters	*
	Fault Alarms/Alerts	Switching point	*

		failures, Network Down failures, Group Luminaires failure, excess voltage/current drawn, no mains power, and contactor failure	
	Google Map	Allows user to trace switching points through google maps.	*
	Reports	Allows user to generate various reports like energy consumed, failure reports, uptime % etc	*
Server/Cloud Requirement	The server/Cloud platform shall be of dedicated Windows server (IIS) with minimum of 16GB RAM with unlimited bandwidth	Yes	*
	Software pre-requisites	i. ASP.NET4 ii. MySQL Server iii. MySQL Workbench	*
	The server/Cloud platform should support unlimited storage	Yes	*
	Server/Cloud platform provider shall have capable to perform auto backup and restore facilities	Yes	*
	Server/Cloud platform provider shall have regular maintenance of the server and immediately address in case of server down	Yes	*
	Server/Cloud platform shall have minimum uptime of 99%	Yes	*
	Server/Cloud should able to handle minimum of 1000 concurrent connections	Yes	*

\* Specifications highlighted in bold are the Golden Parameters.

\* Bidders may note that In respect of non-golden Parameters, the specifications 'Values' chosen by Buyer will generally be preferred over 'Bid requirement ( allowed Values) by the Buyer.

## Additional Specification Documents

### Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	Oza Kapilkumar Parshotam	380052,Ground Floor, "Khanij Bhavan", GMDC Building, 132 Feet Ring Road, Nr. University Ground, Vastrapur, Ahmedabad, Gujarat	20	30

### Bid Specific Additional Terms and Conditions

1. OEM Turn Over Criteria: The minimum average annual financial turnover of the OEM of the offered product during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the OEM is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria. In case of bunch bids, the OEM of CATEGORY RELATED TO primary product having highest bid value should meet this criterion.
2. Bidder Turn Over Criteria: The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.
3. Successful bidder will have to ensure that adequate number of dedicated technical service personals / engineers are designated / deployed for attending to the Service Request in a time bound manner and for ensuring Timely Servicing / rectification of defects during warranty period, as per Service level agreement indicated in the relevant clause of the bid.

[This Bid is also governed by the General Terms and Conditions](#)

**---Thank You---**