

**Expression of Interest for
“Development of Power Infrastructure
for ABD Smart City Project in Bhopal
on PPP model”**

Bhopal Smart City Development Corporation Limited

**Madhya Pradesh
BSCDCL/Tender No/105
Oct-2019**

Contents

1. Introduction	3
2. About the Authority (BSCDCL)	3
3. Project Background	3
4. Purpose of this EOI.....	3
5. Project Objective	3
6. Project Description.....	3
7. Technical Presentation and Proof of Concept/Client Visit.....	4
8. Scope of Work for the Bidder	4
9. Distribution Infrastructure in ABD area	5
10. Particulars of the Bidder.....	6
11. Who can Apply:	6
12. Details to be submitted:.....	7
13. Last Date for submission of application:.....	7
14. Contact Address for enquiry and submission:.....	7

1. Introduction

Bhopal is among the first 20 cities selected in first round of smart cities challenge under Government of India's (GoI) Smart Cities Mission (SCM) to implement the smart city proposal (SCP).

2. About the Authority (BSCDCL)

Bhopal has incorporated a special purpose vehicle (SPV) – Bhopal Smart City Development Corporation Limited (BSCDCL) (the “Authority”) to plan, design, implement, coordinate and monitor the smart city projects in Bhopal. BSCDCL is a company incorporated under Indian Companies Act 2013 with equal shareholding from Madhya Pradesh Urban Development Company Limited (MPUDCL) on behalf of Government of Madhya Pradesh (GoMP) and Bhopal Municipal Corporation (BMC).

3. Project Background

The Proposed Smart City Site at TT Nagar is one of the most developed regions of the city. It is located in proximity to commercial areas of New Market and MP Nagar; education hubs of Maulana Azad Institute of Technology and Barakatullah University, political centers of Raj Bhawan and Vidhan Sabha and recreational activity at Van Vihar National Park.

The proposed smart city development includes redevelopment of 360 acres of North and South TT Nagar. The area shall be developed along BRT and MRT axis on transit oriented development (TOD) principles. It is envisaged to be developed as state-of-the-art smart city in the heart of the city. This would include all modern services, climate resilient infrastructure and job generation opportunities.

4. Purpose of this EOI

Bhopal Smart City Development Corporation Limited (BSCDCL) invites responses ("Proposals"/"Bids") to this Expression of Interest ("Eoi") from reputed companies towards **Design, Development, Operation and Maintenance, tariff structures, roles and responsibilities requirements of Power Infrastructure on PPP Model for 25 years.** Feedback and inputs from interested applicants would be considered and formalized for subsequent Request for Qualification (RFQ) and Request for Proposal (RFP) stages.

5. Project Objective

The objective is to provide city of Bhopal a core infrastructure and give a decent quality of life to its citizens, a clean and sustainable environment and application of 'Smart' Solutions.

The focus is on sustainable and inclusive development and the idea is to look at compact areas, create a replicable model which will act like a light house to other aspiring cities.

6. Project Description

The aim of the project is to Design, Develop, Implement, Manage, Operations and Maintenance of smart power services to improve BSCDCL operation, delivers benefits to citizens and provide seamless integration of smart services & solution for the following land use;

Land Use	Land Area (sqm)	% of total Land area	Built up area (sqm)	Total No. of Plots
Commercial	161,943	11.1%	459,687	15
Residential-Mix	173,189	11.9%	439,281	15
Residential	292,324	20%	722,293	29
PSP / School	124,899	8.6%	263,019	13
Utility	48,414	3.3%	48,414	4
Green / Recreation	269,449	18.5%	20,756	23
TOTAL	1,070,218	73.4%	1,953,450	99
Road Area	388,282	26.6%		
Total Site	1,458,501	100.0%		

7. Technical Presentation and Proof of Concept/Client Visit

The Bidder need to give a detailed technical presentation to BSCDCL covering the following;

- Details on technical solution envisaged in the project
- Indicative approach to be adopted
- Suggest, with proper justification, the various revenue modes which can be part of the EOI.

BSCDCL will consider these suggestions while evaluating the Eol.

8. Scope of Work for the Bidder

The Bidder shall be solely and exclusively responsible to design, implement operate, maintain on a PPP model the solution as mentioned in this EOI and to provide the services as specified.

Design, Develop, Implement, Manage, Operations and Maintenance of **POWER INFRASTRUCTURE FOR 48MVA power demand and approx. 34km cabling works for 342 Acre** ABD area to improve BSCDCL operation and delivers benefits to citizens and provide seamless integration of smart services and solution of following:

- a) 132kV underground cables & termination from Source Substation
- b) 132kV Indoor type Gas Insulated Switchgear
- c) 132/34.5kV ONAN/ONAF Transformers
- d) 33kV Switching station (VCB or SF6 switchgear)

- e) 33kV / 11kV Power Transformers
- f) 11kV Centralized VCB switchgear (AIS)
- g) 33 & 11kV Ring Main Unit (RMU) substation
- h) Substation SCADA System.
- i) 33kV, 11kV, 0.415kV & single and three phase residential Consumer metering, HT meters, Advanced metering infrastructure
- j) Capacitor banks
- k) Battery, Battery Charger and DC Distribution Board
- l) Redundant UPS and associated DB
- m) HT & LT cabling system including control & instrumentation cables including following items:
 - 33kV & 11kV HT Power Cable & Termination kit
 - LT Power & Control cables & terminations with necessary glands & lugs.
 - Cable trays
- n) Substation Fire Fighting System, Fire Protection, HVAC, plumbing etc,
- o) Earthing & Lightning protection system
- p) Lighting, power & auxiliary power supply system for substation
- q) Civil works for developing power infrastructure like, substation building, foundations, cable trench etc.
- r) The bidder should be able to fulfill all regulatory requirements stipulated by MPERC as a Distribution company.
- s) The assets developed should comply with all requirements of Smart Grid and can encourage renewable energy requirements of MOUD Smart City Guidelines.
- t) The obligation of SPV will be providing corridors for Cable routing/ Transmission lines and land for Substations.

9. Distribution Infrastructure in ABD area

- a) The distribution infrastructure summary:

S.N.	Particulars	Units	Details to be Furnished
1.	No. of EHV Sub-station	Nos.	01-132/33kV GIS
2.	132 kV Substation Capacity Installed	MVA	2 x 25/31.5 (with N-1 redundancy) for present + 1 x 25/31.5 for future
3.	Connected Load	MVA	65
4.	Maximum Demand	MVA	48
5.	33/11kV Substation	Nos.	01
6.	33 kV Substation Capacity	MVA	2 x 5 (with N-1 redundancy)

7.	HT Consumers	Nos.	50
9.	LT Consumers	Nos.	8000
9.	132kV Underground Cables	Km	160 km of 1 c x 630sqmm
10.	33kV Underground Cables	Km	34
11.	Capital Investment	Rs.	169 Cr.

Note: - The above list is indicative. The items may be added, modified, deleted as per actual requirement.

10. Particulars of the Bidder

In case of Consortium, all members of the Consortium need to fill this form.

S.N.	Information Sought	Details to be Furnished
1.	Name and address of the bidding Company	
2.	Participations as	Sole/Lead/Consortium Member
3.	Incorporation status of the firm (public limited/private limited, etc.)	
4.	Year of Establishment	
5.	Date of registration	
6.	ROC Reference No.	
7.	Details of company registration	
8.	Details of registration with appropriate authorities for service tax	
9.	Turnover in the last 3 years	<ul style="list-style-type: none"> • 2018-19 • 2017-18 • 2016-17
10.	Name, Address, email, Phone nos and	

11. Who can Apply:

All reputed National / International infrastructure companies and service providers as sole entity or in Joint Venture with Investors / developers.

Interested Companies advised to study this EoI document carefully before submitting their proposals in response to the EoI document. Submission of a proposal in response to this EoI shall be deemed to have been done after careful study and examination of this document with full understanding of its terms, conditions and implications.

Proposals must be received not later than time, date and venue mentioned in the EoI'. Proposals that are received after the deadline WILL NOT be considered in this procurement

process. All documents that form a part of proposal response submitted by Concessioner, should be uploaded on the e Procurement portal. No hard-copies should be sent to the department.

12. Details to be submitted:

- Ownership details
- Profile for past five years
- Details of key works executed relevant to the smart city project
- Financial capacity: Net worth, turnover, net profit, net cash accruals, audit balance sheet etc.
- Indicative proposal and model for developing and operating the proposed infrastructure development, revenue generation, key regulations and approvals that would be required.
- Self declaration for non-blacklisting

Note: This is not a Pre- Qualification Document. This document is not an agreement and is neither an offer nor invitation by Authority to the prospective applicants or any other person.

13. Last Date for submission of application:

15/11/2019 till 3:00 PM

Online on mail id - bscdcl@smartbhopal.city

14. Contact Address for enquiry and submission:

CEO,
Bhopal Smart City Development Corporation Limited
Zone 14, near Tatpar petrol pump, BHEL
Govindpura, Bhopal
Madhya Pradesh- 462023
Contact no. - 0755 2477770

15. MASTER PLAN

