

Request for Proposal (RFP) is invited from Consultant/ Joint Venture/ Multi-disciplinary Consortia, Government Organization , Public Sector undertaking, Government Educational Institute and I&FC Empanelled agencies, for Project Management Consultancy (PMC) for the work to rejuvenate drain in holistic manners by using ecologically sensitive sustainable technique like creation of stationary and floating wetlands and in-situ aeration & installation of ozonizer in drains which can reduce BOD load, improve dissolved oxygen levels, reduce bad odour and harmful gas emission from the drains. Further to develop the vacant land by landscaping, developing it for recreation activities such as cycling track, jogging track, Illumination of dark spots of drain by installation of street lighting automated with solar energy/wind energy wherever feasible and Installation of solar panels for generation of solar energy where ever feasible in respect of drains falls under the jurisdiction of Civil Division VIII, I&FC Department, Govt. of NCT of Delhi.

Introduction:-

The quality of waste water of the drains fall under the Jurisdiction of Civil Division VIII, I&FC Department here in after called as Department, is alarming due to industrial effluent, waste water and septage from the adjoining un-sewered village and industrial waste flowing into the drains. BOD of the waste water has been enormous and found to vary from 150 to 250mg/litre at different location. The fumes of waste water in drains are also contributing the air pollution and pollute the sub soil of the area along which it flows.

BACK GROUND:-

There are 57 major and minor storm water drains under the jurisdiction of Irrigation and Flood Control Department in Delhi. Out of the 57 drains following drains fall under the jurisdiction of Civil Division VIII, I&FC Department.

S. No.	Name of Drain	Length	Catchment area (In Hect.)	Designed Discharge (In Cusecs)	Width of Drain in meter		Land Width
					Bottom	Top	
1.	Kirari Suleman Nagar Drain RD4150 to RD.7850m.	3.75 Km	2298	88.40	3.50	3.50	7.50 m to 15 m
2.	Madanpur pur drain RD 4100M to RD 8229M	4.12 Km	3186.00	123.00	3.35	6.30	12.50 m
3.	Bawana Drain RD 0 m to 9000 m	9.00 Km	2172.00	100.00	1.80 M to 2.4.00 m	7.50 m - 10.00 m	5.30 m to 12.00 m
4.	Sultanpur Drain RD 0 m to RD 9200 m	9.20 Km	1657.60	60.00	1.52 m to 2.13 m	8.50 m - 9.10 m	4.20 m to 12.60 m

Brief about drains

1. **Kirari Suleman Nagar Drain:-** The Kirari Suleman Nagar drain from RD 4150 m to RD 7850 m falls under the Sub-Division-II of Civil Division-VIII. This drain starts from Sector-20 Rohini and passes through various unauthorized colonies such as Ramesh Enclave, Pratap Vihar Part-I,II & III, Mubarakpur road Z block Astha Vihar, Naag Mandir 70 Foota road, railway line & Veena Enclave. During its course it crosses under the railway line and main Rohtak road. The total length of the drain under the jurisdiction of Civil Division-VIII is 3700 m from RD 4150 m to RD 7850 m. the catchment area of KSN drain is 2298 Hectares upto RD 7850 m with maximum design discharge of 88.40 cusecs. All the wastes, garbage trash etc. of adjoining colonies is being dumped into this drain.
2. **Madanpur drain RD 4100 m to RD 8229 :-** The Madanpur drain from RD 4100 m to RD 8229 m falls under the Sub-Division-II of Civil Division-VIII. This drain starts from village Madanpur and passes through villages Rani Khera, Rasoolpur & Ghewra. During its course it crosses under the railway line and main Rohtak road. The total length of the drain under the jurisdiction of Civil Division-VIII is 4129 m from RD 4100 m to RD 8229 m. Its catchment area is 3186 hectares with its design discharge capacity of 123 cusecs.
3. **Bawana Drain RD 0 m to 9000 m:-** It is storm water drain originates from main Bawana Auchandi road in this sub division fields and out falls into Mungeshpur drain at village Ladpur. The drain passes inside Rajiv Gandhi Stadium and through revenue state of Nangal Thakran, Salahpur Majra, Chandpur and Kanjhawala village. It is receiving entire waste water/septage of all adjoining area floating material also comes through Bawana drain U/S of Bawana main road, adjoining drain which are jurisdiction of MCD.
4. **Sultanpur Drain RD 0 m to RD 9200 m:-** The Salahpur drain originates from the fields of Sultanpur Dabas village from RD 9200 m and out falls at Madanpur Pond in village Madanpur Dabas. It passes through the revenue state of village Sultanpur Dabas, Karala-Kanjhawala and Madanpur. It is receiving entire waste water/septage of nearby villages.

Department has decided to rejuvenate above mentioned 4 drains **in holistic manners by using ecologically sensitive sustainable technique like creation of stationary and floating wetlands and in-situ aeration & installation of ozonizer in drains which can reduce BOD load, improve dissolved oxygen levels, reduce bad odour and harmful gas emission from the drains. Further to develop the vacant land by landscaping, developing it for recreation activities such as cycling track, jogging track, Illumination of dark spots of drain by installation of street lighting automated with solar energy/wind energy wherever feasible and Installation of solar panels for generation of solar energy where ever feasible in respect of drains** Therefore, calling this Request For Proposal (RFP) from the agencies having expertise in this field, for Project Management Consultancy (PMC).

Broad Scope of Work:-

1. Secondary Data Collection.
2. Map Based Information System.
3. Topographic & hydro graphic survey of the catchment area by using drone sensing technology.
4. Hydraulic Load Assessment.
5. Soil Bearing Capacity.
6. Silt Load Assessment & Management Plan.
7. Designing of constructed wetland system (Floating/static) required based on the water quality of the drain.
8. Feasibility of installation of aerator, ozonation wherever required.
9. Landscaping of vacant area, developing re-creative activity area such as cycling track, jogging track, park etc.,
10. Illumination of dark spots of drain by installation of street lighting automated with solar energy/wind energy wherever feasible.
11. Installation of solar panels for generation of solar energy where ever feasible.
12. Proper integrated mechanism for removal of silt wherever required including used of Geo bags / Geo tubes whichever is feasible i.e. Geo fabrics for trapping floating waste/slit/sewerage .
13. Submission of inception report & feasibility report.
14. Submission of detail project report.
15. Preparation and submission of designs (including structural and other as relevant to above techniques and methodologies), working drawings, detailed estimate along with BOQ which shall also include cost of maintenance for 5 years from the date commissioning of the project.
16. Measures for management of solid waste including prevention of dumping of solid waste into the drains, re-use of silt, re-use of treated effluent discharged in the drain.
17. Tender Document preparation.
18. Technically supervising of the work during execution and maintenance period.
19. Any other measure suggested by Committee for Controlling the Pollution constituted by National Green Tribunal or any other Authority.

2. INSTRUCTION FOR BIDDERS

A. GENERAL

2.1. General terms of Bidding

2.1.1 No Bidder shall submit more than one Bid for the Project. A Bidder bidding individually or as a member of a Consortium shall not be entitled to submit another bid either individually or as a member of any Consortium, as the case may be.

2.1.2 The Bid should be furnished in the format at Appendix-I [Technical Bid] and Appendix-II [Financial Bid]. *Note:- Bid not submitted in prescribed format i.e. Appendix I and Appendix-II will liable to be rejected without going through merits.

2.1.2 The Financial bid submitted in the Appendix-II clearly indicate the Bid amount quoted in both figures and words against each of the drain separately and signed by the Bidder's authorized signatory. In the event of any difference between figures and words, the amount indicated in words shall be taken into account.

2.1.3 The Bidder shall deposit a Bid Security (EMD) of Rs. 1,00,000/- (Rupees One Lakh Only) in the shape of Demand Draft drawn in favour of Executive Engineer Civil Division VIII, I&FC and payable at Delhi to participate in RFP. Government Organization, Semi-Government Organization, PSU, Government Educational Institutes are exempted from deposition of Bid Security amount of Rs. 1,00,000/-

2.1.4 In case the Bidder is a Consortium, the Members thereof should furnish a Power of Attorney in favour of the Lead Member.

2.2 Site visit and verification of information

2.2.1 Bidders are encouraged to submit their respective Bids after visiting the Project site and ascertaining themselves the site condition, traffic, location, surrounding, climate, availability of power, water and other utilities.

2.2.2 It shall be deemed that by submitting a Bid, the Bidder has to:

- (a) Made a complete and careful examination of the Bidding Documents;
- (b) Received all relevant information requested from the Department;
- (c) Accepted the risk of inadequacy, error or mistake in the information Provided in the Bidding Documents or furnished by or on behalf of the Department relating of any of the matters.
- (d) satisfied itself about all the matters, things and information for submission of bid and performance of all of its obligations there under;

2.2.3 The Department shall not be liable for any omission, mistake or error in respect of any of the above or on account of any matter or thing arising out of or concerning or relating to RFP, the Bidding Documents or the Bidding Process, including any error or mistake therein or in any information or data given by the Department.

2.3 Verification and Disqualification

2.3.1 The Department reserves the right to verify all statements, information and documents submitted by the Bidder in response to the RFP or the Bidding Documents and the Bidder shall, when so required by the Agency, make available all such information, evidence and documents as may be necessary for such verification.

2.3.2 The Department reserves the right to reject any Bid and appropriate the Bid Security if:

- (a) At any time, a material misrepresentation is made or uncovered, or
- (b) The Bidder does not provide, within the time specified by the Department the supplemental information sought by the Department for evaluation of the Bid.

Such misrepresentation/ improper response shall lead to the disqualification of the Bidder. If the Bidder is a Consortium, then the entire Consortium and each Member may be disqualified / rejected.

2.4 Clarifications

2.4.1 Bidders requiring any clarification on the RFP may contact either through e-mail, ifccdvihi@gmail.com or personally in the Office of Executive Engineer-CD VIII, I&FC Department, Govt. of NCT of Delhi, Sector-15, Rohini Delhi-110085 at least 5 days before the closing date of submission of bid.

2.5 Amendment of RFP

2.5.1 At any time prior to the Bid Due Date, the department may, for any reason, whether at its own initiative or in response to clarification requested by a Bidder, modify the RFP by the issuance of Addenda.

2.5.2 Any Addendum issued hereunder will be in writing and shall be sent to all the Bidders.

In order to afford the Bidder a reasonable time for taking an Addendum into account, or for any other reason, the Department may, in its sole discretion to extend the Bid Due Date.

Bidder has to submit bid document in two envelope making as "Technical" and "Financial" and place these two envelope in one sealed cover envelope clearly marking as "Bid documents for RFP-Drains" and submit the same in the office of Executive Engineer CD-VIII, I&FC Department, Sector-15, Rohini, Delhi on or before dated 02.03.2019 upto 3.00 PM.

The evaluation of RFP has two stages (i) Technical and (ii) Financial. The agency has to qualify both the stages for award of work. Financial bid shall be opened only for those bidders who so ever are qualified technically. L-1 bidder shall be awarded. **Empanelled Consultant/agencies for PMC of I&FC Department need to submit only Financial bid and they are exempted from submitting the Technical Bid. However, Empanelled Consultant/agencies need to submit Bid Security (EMD) amounting to Rs. 1,00,000/-(Rs One Lakh) along with Financial bid.**

A Bidder requires/ submit following to qualify in technical bid.

1. Self attested copy of Firm registration, registered in India as per law.
2. Rs. 1,00,000/- (Rupees One Lakh Only) in the form of DD drawn in favour of Executive Engineer CD-VIII, I&FC, GNCTD payable at Delhi as EMD. Not applicable to Govt. Organizations, institutes, undertaking agencies.
3. Solvency certificate amounting to Rs. 25 lakh issued by a Bank for current Financial year (Not applicable to Govt. Organizations, Semi Government Organization, PSU, Government Educational Institutes and Empanelled Consultant/agencies).
4. The applicant must be a profit making organization with an average annual turnover of at least Rs. 40 lakh in last three years (Not applicable to Govt. Organizations, Semi Government Organization, PSU, Government Educational Institutes and Empanelled Consultant/agencies) . In case of a Joint Venture or Consortia, the lead member alone will have to meet this condition (Turn Over Certificate should be signed by Chartered Accountant).
5. Self-attested copies of TAN/PAN, GST.

Criteria for technical qualification

{Please note:- The experience certificate should be signed by (i) in case of Govt Organization-Not Less Than the Executive Engineer (ii) in case of Private Organization-Not Less Than the Manager.}

1.	Having experience in consultancy services in designing waste water treatment, project using eco-friendly sustainability technology such as Wet Land, pythorid technology. Experience certificate should be issued on the letter of the department/client and signed by authorized signatory. (10marks for each project executed and maximum of 20 marks)	10x2=20
2.	Having experience in survey works in Topographic/ hydrological survey of storm water drain, water body, river etc. (1x2.5 marks for topography survey and 1x2.5 marks for hydrological survey)	2x2.5=5
3.	Project of landscaping of water bodies, parks, drains, river front etc. (10 marks for each project maximum of 20 marks).	2x10=20
4.	Project done for establishing solar energy or wind energy plants (Solar energy plant-2.5 marks and Wind energy plant-2.5 marks).	2.5x2=5
Total	(A)	50

Requirement of Technical Expertise

S. No.	Qualification	Experience	Marks
1.	B.E, B.Tech., M. Tech. Environmental or any graduate of science having experience in designing in Eco-Friendly sustainable Technology (Wet land, Phythorid on other similar Technology)	5 Years	20
2.	M. Arch. Specialization in land escaping	5 Years	10
3.	M. Tech. Hydrology or equivalent degree	5 Years	5
4.	B.E./B. Tech. Civil Engineering 2 Nos	5 Years	10 (2x5)
5.	M. Tech Structural Engineering	5 Year	5
Total (B)			50

Bidder has to score at least 65 Marks (A+B) to qualify in the Technical Stage.

A Bidder requires/submit quote in Rupees against each drain mentioned in Annexure-I with RFP document. The Financial bid will be opened for those bidders who qualify Technical Stage. The Financial evaluation will be done for each drain and bidder who has quoted the lowest rate will be awarded the work of PMC for that drain.

The Selected Agency/ Organization is subject to following conditions:

1. The amount quoted is valid upto the completion of maintenance period of 5 years from the date of signing of the agreement. The same can be extended at the discretion of I&FC Deptt.
2. The Selected agency has to sign a MoU with the Executive Engineer In-charge before start of work by submission of PG amounting to 5% of the quoted amount.
3. The EMD amount deposited with the bid will be returned on submission of PG amount.
4. The Selection does not confer any right / guarantee of entrusting the work/ jobs in the favour of selected agencies.
5. I&FC Deptt. , reserves the right to reject applications without assigning any reason. The decision of I&FC Deptt. in this respect shall be final and binding on all applicants.
6. Any dispute/ legal case arising out of this empanelment or award of work will be subject to jurisdiction of Delhi Courts only.
7. The Selected Agency is to abide by the General Financial Rules of Government of India, CVC guidelines, instructions issued by the Finance Department, Govt. of Delhi etc.

8. The amount payable to the agency shall be the amount quoted by the agency or 5% of the cost worked out after preparation of Detailed Project Report excluding (labour cess), contingencies and 3rd party quality check) whichever is lower.
9. The rate quoted by the agency shall be inclusive of all taxes. No separate claim for reimbursement of any type of tax will be entertained by the deptt. at any stage.
10. Time allowed for submission for DPR along with detailed estimate, design and drawing is 120 days from the date of issue of award letter. 0.50% will be deducted from the amount payable to the agency for delay of every 10 (Ten) days.
11. Payment schedule:-
 - (i) 2% of quoted rates on submission of feasibility report by ascertaining physical status of drain that whether it is viable to be developed/rejuvenated by means of adopting ecological sensitive sustainable technology. Only feasible drains, in all shall be carried on for further course of action. In case of non feasible payment shall be made as per payment schedule upto feasible clauses. No extra claims on account of pre mature termination shall be entertained.
 - (ii) 8% of quoted rates on submission of preliminary report-like survey report, technology most viable and economical along with conceptual plan.
 - (iii) 10% of quoted amount rates on submission of DPR along with detail estimate, detail drawing and design for the technology opted along with landscaping plan and drawing.
 - (iv) 15% after submission of BOQ, Tender Documents, detail working drawing and design and on award of work.
 - (v) 15% of quoted amount rates on Physical completion of $\frac{1}{4}$ of the work.
 - (vi) 10% of quoted amount rates on Physical completion of $\frac{1}{2}$ of the work.
 - (vii) 10% of quoted amount rates on Physical completion of $\frac{3}{4}$ of the work.
 - (viii) 20% of quoted amount rates on physical completion of the work and successful commissioning of the project.
 - (ix) 10% of quoted rates during 05 years maintenance period (@2% per Year).
 - (x) Performance Guarantee will be returned after completion of maintenance period.
 - (xi) Further, 5% will be deducted from the amount payable in bill raised by the selected agency, on account of security deposit which shall be released after the completion of work including maintenance period.

Note: Pre bid meeting will be held in the chamber of Executive Engineer-VIII, I&FC Deptt., Govt of NCT of Delhi, Rohini Office Complex, Sector-15, Rohini, Delhi-110085 at 12:00 A.M. on 28.02.2019. the prospective bidders before participating in the bidding process, are requested to attend the meeting on venue and time give above.

Applicants may submit their bid in sealed cover, so as to reach to office of I&FC, on or before 02.03.2019 upto 03.00 P.M. at the following address: The Executive Engineer, Civil Division - VIII, Irrigation & Flood Control Department, Govt. of NCT of Delhi, Rohini Office Complex, Sector-15, Rohini, Delhi-110085.

Sd/- (Dated-19.02.2019)

(J NARENDER SAGAR)
EXECUTIVE ENGINEER-CD VIII
9958890108

FORMET FOR SUBMISSION OF TECHNICAL BID :- Annexure-I

Name of Applicant Firm:-

S.No.	Description	Page No.	
1.	Name of Lead Member along with details of members forming Consortia/JV		
2.	Affidavit clearly stating name of Lead Member by the other members of JV/Consortia		
3.	Details of Bid Security: DD No, Bank, date and amount		
4.	Self attested copy of Firm registration, registered in India as per law.		
5.	Solvency Certificate amounting to Rs. 25 lakhs issued by a Bank for Current Financial Year.		
6.	Average annual turnover of at least 40 lakhs, certificate issued by the Chartered Accountant.		
7.	Self-attested copies of TAN/PAN, GST.		
9.	Experience certificate issued on letter of department/client and signed by authorized signatory for consultancy services in designing waste water treatment using eco-friendly sustainability technology such as Wet Land, pythorid technology.		
10	Certificate issued on letter of department/client and signed by authorized signatory for execution of Topographic/ hydrological survey of storm water drain, water body, river etc.		
11	Certificate issued on letter of department/client and signed by authorized signatory for consultancy services involved in Project of landscaping of water bodies, parks, drains, river front etc.		
12	B.E, B.Tech., M. Tech. Environmental or any graduate of science having experience in designing in Eco-Friendly sustainable Technology (Wet land, Phythorid on other similar Technology)	Educational Qualification Certificate and experience Certificate	Page No
13	M. Arch. Specialization in land escaping	Educational Qualification Certificate and experience Certificate	

14	M. Tech. Hydrology	Educational Qualification Certificate and experience Certificate	
15	B.E./B. Tech. Civil Engineering 2 Nos	Educational Qualification Certificate and experience Certificate	
16	M. Tech Structural	Educational Qualification Certificate and experience Certificate	

*Note: Authorized Signatory for experience certificate :

- 1. Issued by Govt. Agencies : Not less than Executive Engineer.
- 2. Pvt. Client, PSU etc: Not less than Manager/Project Manager

Signature & Stamp of Applicant

FORMAT FOR SUBMISSION OF FINANCIAL BID:-

Annexure-II

Annexure	Name of work	Quoted amount for PMC (In Rs.)
1	PMC for the work of “Rejuvenation of Kirari Suleman Nagar Drain 4150 m to RD.7850 m. in Distt., North/West Delhi in accordance with the scope of work mentioned on RFP.	
2	PMC for the work of “Rejuvenation of Madanpur pur drain RD 4100M to RD 8229M in Distt., North/West Delhi in accordance with the scope of work mentioned on RFP	
4	PMC for the work of “Rejuvenation of Bawana Drain RD 0 m to 9000 m in Distt., North Delhi in accordance with the scope of work mentioned on RFP	
5	PMC for the work of “Rejuvenation of Sultanpur Drain RD 0 m to RD 9200 m, North Delhi in accordance with the scope of work mentioned on RFP	

Signature & Stamp of Applicant