

District Magistrate cum Deputy Commissioner, Palamu
(District Planning Office, Palamu)
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Tender Reference No: -

Date: - 04th Sep, 2020

INVITATION FOR EXPRESSION OF INTEREST

S. No	INFORMATION	DETAILS
01	NAME OF THE WORK	SWACHHAL: Establishment of an Ecosystem with Safe and Fit for Drinking Purpose Water along with minimal water wastage and maximum Ground Water Restoration.
02	PERIOD OF WORK	365 Days
03	DATE OF PUBLICATION OF BID ON WEBSITE	8 th Sep, 2020
04	PRE-BID MEETING	15 th Sep, 2020
05	LAST DATE & TIME OF RECEIPT OF EOI	30 th Sep, 2020 at 1:00 PM
06	EOI SUBMISSION PLACE	District Planning Office 1 st Floor, Block A, New Collectorate Building, Medininagar
07	DATE & TIME OF FOR THE POWER POINT PRESENTATION AND OPENING OF EXPRESSION OF INTEREST	30 th Sep, 2020 at 1:30 PM
08	VENUE FOR THE POWER POINT PRESENTATION AND OPENING OF EXPRESSION OF INTEREST.	Chamber of Deputy Commissioner, 1 st Floor, Block A, New Collectorate Building, Medininagar. 822101
09	NAME & ADDRESS OF OFFICE INVITING EOI	Collectorate Office Palamu, Kutchery, 822101
10	HELPLINE NUMBER	+91 9997335193, +91 9867840738

NOTE: - For further information please visit website: www.palamu.nic.in


 Deputy Commissioner
 Palamu.

CollectoratePalamu, Jharkhand
(DISTRICT PLANNING OFFICE)
(NITI AAYOG KOSHANG)

- A. ABOUT THE DISTRICT:** The Palamu district came into existence on 1st January 1892. Prior to this, it was a subdivision with the headquarters at Daltonganj just after the revolt of 1857. In 1871 Pargana Japla and Belauja were transferred from Gaya to Palamu. The early history of Palamu is shrouded in legends and traditions. Autonomous tribes probably inhabited the area in past. Kharwars, the Oraons, and the Cheros practically ruled over this tract. The Oraons had their headquarters at Rohtasgarh in the then Shahabad district (which includes the present district of Bhojpur&Rohtas). There is some indication that for some time a portion of Palamu was ruled from the headquarters of Rohtasgarh.
- B. ABSTRACT:** Groundwater is the major source for various purposes in most parts of the world. Presence of low or high concentration of certain ions is a major issue as they make the groundwater unsuitable for various purposes. Fluoride is one such ion that causes health problems in people living in more than 25 nations around the world. Fluoride concentration of at least 0.6 mg/l is required for human consumption as it will help to have stronger teeth and bones. Consumption of water with fluoride concentration above 1.5 mg/l results in acute to chronic dental fluorosis where the tooth becomes coloured from yellow to brown. Skeletal fluorosis which causes weakness and bending of the bones also results due to long term consumption of water containing high fluoride. Presence of low or high concentration of fluoride in groundwater is because of natural or anthropogenic causes or a combination of both. Natural sources are associated to the geological conditions of an area. Several rocks have fluoride bearing minerals like apatite, fluorite, biotite and hornblende. The weathering of these rocks and infiltration of rainfall through it increases fluoride concentration in groundwater. Fluoride which is present in high concentration in volcanic ash is readily soluble in water and forms another natural source. Anthropogenic sources of fluoride include agricultural fertilisers and combustion of coal. Phosphate fertilisers contribute to fluoride in irrigation lands. Coal which is a potential source of fluoride is used for combustion in various industries and in brick kilns. The aerial emission of fluoride in gaseous form during these activities reaches the surface by fall out of particulate fluorides and during rainfall they percolate with the rainwater thus reaching the ground water table. Also the improper disposal of fly ash on ground surface contributes to fluoride in groundwater. Since ingestion of high fluoride has a long term effect on human health it is essential to monitor its concentration in groundwater used for drinking periodically and take steps to bring them within the permissible range of 0.6 to 1.5 mg/l. There are several methods available for the removal of fluoride from groundwater which is in situ or ex situ.
- C. RATIONALE:** To dilute the groundwater contaminated with fluoride, artificial recharging structures can be built in suitable places which will decrease its concentration. Rainwater harvesting through existing wells also will prove effective to reduce the groundwater fluoride concentration. Ex situ methods which are conventional treatment methods like adsorption, ion exchange, reverse osmosis, electro dialysis, coagulation and precipitation etc. can be practiced at community level or at households to reduce fluoride concentration before ingestion. But the choice of each method depends on the local conditions of the region such as the quality of groundwater and the source of contamination whether it is natural or anthropogenic. The groundwater in most parts of the district is affected by fluoride contamination, aforementioned are the short term and long term side effects of drinking water contaminated by fluoride, also the methods mentioned above to treat the fluoride contaminated water are extensive and very specific in nature, i.e. those methods cannot be used to treat other hardness and microbial infestation of groundwater. Thus there is a need to find an eco-friendly, cost effective, efficient and sustainable solution to this problem in parlance of Palamu. Fluoride contamination being a prominent and widespread problem in several parts of the world and as causes for this is mostly natural and

unpreventable, educating the people and defluorinating the groundwater before consumption are essential for a healthy world.

Groundwater in Palamu has significant presence of Fluoride with varying capacity, for aforementioned reasons there is a need to find a scalable, ecofriendly and economical solution to:

- a) **PHASE 1:**Treat Groundwater which is being extracted of Fluoride and other contaminants and make them “Fit for Drinking Purpose” on the standards prescribed by Ministry of Drinking Water & Sanitation (GoI), Jharkhand Government & other competent agencies (WHO)
- b) **PHASE 2:**Find a Scalable, Eco-Friendly & Economical Solution for treating surface water (grey & black both) to make it “Fit for Drinking Purpose”.
- c) **PHASE 3:**Integrate above three solutions for the final stage of the project → recharge ground water with clean and safe water to enhance the experience of beneficiary and create an eco-system where last mile beneficiary is able to access clean and safe drinking water without incurring any (read : or minimal) cost.

To counter this challenge the District Administration of Palamu is inviting EOI for installation of a Fluoride Treatment Facility on 5 selected sites (See Appendix 1& 2).

D. SCOPE OF WORK

- a) **SURVEY OF SITES:**The selected agency is supposed to do a survey of selected sites and propose the best possible solution to treat ground water which is being extracted and used for drinking and other purposes currently.The agency is supposed to present a Detailed Project Report(DPR) with following heads:
 - a. Goal
 - b. Objective(s)
 - c. List of Activities
 - d. Timeline of Implementation (Gantt chart)
 - e. Budget
 - f. Output(s)
 - g. Expected outcome(s)
 - h. Expected impact(s)
 - i. Objectively verifiable indicators
 - j. Means of Verification
 - k. Assumption/ Risks/ Externalities
 - l. **Minimal water wastage:** Reusability quotient of waste water under this head
 - m. Sustainability&Scalability of the Project
- b) Spread awareness about standards of safe drinking water set by Government, its ill effects on human body upon prolongedconsumption, practices to minimize water wastage etc.
- c) Implement the List of Activities mentioned (c.) above along with any civilwork that is required to establish the facility
- d) Ensure the outputs & outcomes are in line with what would be mentioned in the DPR
- e) Capacity building of locals (at least 5) to transfer the ownership ofthe facility and ensure its maintenance locally
- f) Ensure continuous supply of safe water for drinking purpose
- g) The successful bidder shall install the system with the stipulated time frame shall closely monitor the system. Thesuccessful bidder shall also submit an impact assessment report post one year of startof the water treatment facility.
- h) The bidder shall ensure that use of chemicals is minimum if not absentwhile treatment of water
- i) The bidder shall ensure that there should be minimal water lossduring treatment of the water
- j) Propose Plan for Phase 2 and Phase 3 of implementation on the format same as of Survey of Sites.

E. QUALIFICATION CRITERIA:

01	Eligibility	<p><u>QUALIFICATION CRITERIA</u></p> <ol style="list-style-type: none">1. The Bidder shall be either a company incorporated under the Companies Act, 2013 or the Companies Act, 1956, or a Trust established under Indian Trust Act, 1882 or a Society established under Indian Societies Registration Act, 1860, and no other entity. Consortium in any form is not allowed.2. The Bidder/Agency should be registered with the GST/PAN/ TAN Number.3. The Bidder/Agency should be minimum total number of Annual Average Turnover of 50 lakh for last 3 financial years.4. The Bidder/Agency should be positive net worth for each of the last 3 financial years.5. The Agency should have updated GST return and IT return for the last three financial years issued by the Department.6. The Bidder/Agency shall be specialized in operation, maintenance and management of liquid waste management, water treatment and capacity building experience in the areas of implementing similar project during the last three years.7. The firm should have not been blacklisted by any government or any other donor/partner organization in the past. (Declaration to be given in the form of affidavit).8. The Bidder/Agency should be have at least one plant installed in Government body and must have 2 years of operational and Maintenance of same plant.
02	Right of authority to accept or reject any EOI	<p>The authority reserve following rights without any kind of liability.</p> <ol style="list-style-type: none">1. To accept or reject any part of any EOI/Entire EOI or all the EOIs without assigning any reason thereof.2. Not to proceed ahead in the process at any stage without assigning any reason thereof.
03	Evaluation of offers	EOI would be evaluated based on the quality of their proposal, Uniqueness and cost effectiveness.
04	EOI Validity	180 days from the submission date.

Deputy Commissioner,

Palamu

TERMS & CONDITION

1. Offers Invited In Two Bids

All agencies are required to submit their Technical and Financial offers in two covers (in duplicate) as under:-

A. First Envelope shall be named as “TECHNICAL BID EVALUATION: SWACHHAL: Establishment of an Ecosystem with Safe and Fit for Drinking Purpose Water along with minimal water wastage and maximum Ground Water Restoration. – PLEASE DO NOT OPEN BEFORE 01:30PM ON 30th SEP, 2020” and contain the following documents:-

- I. Name of the firm with full Address & Contact No.
- II. Documents duly completed and signed but without indicating the rates.
- III. Agency should provide the AoA (in case of registered firm), Bye Laws and certificate of registration (incase of Pvt Ltd. and LLC) and Partnership Deed (in case of partnership deed). Incorporation certificate must be provided.
- IV. Provide the copy of PAN/TAN & GST registration number.
- V. Provide the copy of the audited P&L statement/Balance sheet/Net worth of the company and certified from the CA clearly stating the turn over from the healthcare services on Management, Maintenance and operations.
- VI. Provide the copy of the audit balance sheet of the company and certificate from the chartered Accountant clearly stating the turnover from IT services.
- VII. Provide Documentary proof of GST returns issued by GST Department and IT RETURN copy for the last three financial years.
- VIII. The Agency should provide affidavit in original for non-engagement in fraudulent corrupt practice, non-blacklisting in any Govt. /PSU in the last three financial years.
- IX. PowerPoint/ Video presentation/ DPR of brief operation plan showing proposed activities to be carried and the cost of the project.
- X. List of similar work done by the bidder with complete address and details of contact person of the organization with phone number.
- XI. Specifications of the machines/ components/ equipment to be installed along with a comparative analysis of at least 2 other corresponding competitors in the market (attach same document in the Section B of bid submission along with rates of both).

B. Second envelopeshall be named as “FINANCIAL BID EVALUATION: SWACHHAL: Establishment of an Ecosystem with Safe and Fit for Drinking Purpose Water along with minimal water wastage and maximum Ground Water Restoration. – PLEASE DO NOT OPEN BEFORE 01:30PM ON 30th SEP, 2020” and contain the following documents:-

- I. Unit Rates of all commodities/ machines/ equipment/ components should be quoted in INR(along with a comparative analysis of at least two other corresponding competitors, inclusive of all types of Government Taxes, Freight, Packing and other expenses on the official letter pad of the Organization. On the basis of Unit Rates proposed by the bidder/ agency, total rate has to be calculated by the bidder.
- II. Conditional or incomplete applications will not be accepted.
- III. Price bid of all those bidders will be considered for opening whose offer is complete and technically sound.
- IV. The items should be supplied under warranty for a period not less than oneyears towards any manufacturing defects.
- V. The applicant may enclose copies of the orders received, if any from Government/Semi Government organizations in the recent past for the subject stores along with the tender. Such bidder will be preferred.
- VI. The undersigned reserves the right to reject the tender partially or fully without assigning any reason.
- VII. Purchase committee also reserves the right to relax any term and condition in the Government interest.
- VIII. Quantity of requisite items may increase or decrease as per the requirement.

- IX. The rate quoted shall be valid for a period of six months after the date of opening of bid.
- X. Defective items will not be accepted.
- XI. The norms of Jharkhand Procurement Policy, 2014 will be entertained.
- XII. The second envelope should be inside the first envelope.

50% Marks will be on Presentation & Technical Bid, 50 % Marks will be on Financial Bid

C. LATE BID

Any bid received by the district planning office after the stipulated time and date for the receipt of bids prescribed in this document will be rejected and be returned unopened to the Agency.

D. APPOINTMENT OF CONSULTING AGENCY

a. AWARD CRITERIA

The District Administration will award the Contract to the successful Bidder(s) whose proposal has been determined to be substantially responsive and has been determined as the most responsive bid, i.e., has secured highest overall score as per the process outlined.

b. RIGHT TO ACCEPT ANY PROPOSAL & TO REJECT ANY OR ALL PROPOSAL(S)

The District Administration reserves the right to accept or reject any proposal, and to annul the tendering process / Public procurement process and reject all proposals at any time prior to award of contract, without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or bidders of the grounds for the District Administration's action.

c. NOTIFICATION OF AWARDS

Prior to the expiration of the bid validity period, the District Administration will notify the successful bidder in writing or by fax or email, that its proposal has been accepted. In case, due to some unforeseeable circumstances, the tendering process is not completed within the bid validity period, the District Administration may like to request the bidders to extend the validity period of the bid. The notification of award will constitute the formation of the contract.

d. PERFORMANCE GUARANTEE

The District Administration will require the selected Bidder to provide a Performance Bank Guarantee (PBG), within 15 days from the Notification of award, for a value equivalent to 10% of the total cost of the assignment. The Performance Guarantee should be valid for a period of **24 months** initially, except in case of solar and playground component, for them it should be **36 months**. The Performance Guarantee shall be renewed as and when required and kept valid for a period of three months beyond the completion of the project and Warranty period. The Performance Guarantee shall contain a claim period of three months from the last date of validity. The selected Bidder shall be responsible for extending the validity date and claim period of the Performance Guarantee as and when it is due on account of non-completion of the project and Warranty period. In case the selected bidder fails to submit performance guarantee within the time stipulated, the District Administration at its discretion may cancel the order placed on the selected bidder without giving any notice.

The District Administration shall invoke the performance guarantee in case the selected Agency/Vendor fails to discharge their contractual obligations during the period or the District Administration incurs any loss due to Agency/Vendor's negligence in carrying out the project implementation as per the agreed terms & conditions.

e. SIGNING OF CONTRACT

Post submission of Performance Bank Guarantee by the successful bidder, the District Administration shall enter into a contract with the successful bidder incorporating necessary details of scope of work, deliverables, timeline, payment schedule, pre-bid clarifications, and resource person's deployment, the financial proposal of the bidder and other clauses as necessary.

F. FORCE MAJEURE:

i. DEFINITION

In this Clause "**Event of Force Majeure**" means an event beyond the control of the District Administration & the Consulting Agency, which prevents either Party from complying with any of its obligations under the Contract, including but not limited to:

1. Acts of God (such as, but not limited to, fires, explosions, earthquakes, drought, tidal waves and floods); war, hostilities (whether war be declared or not), invasion, act of foreign enemies, mobilisation, requisition, or embargo;
2. Rebellion, revolution, insurrection, or military or usurped power, or civil war;
3. Riot, commotion, strikes, go slows, lock outs or disorder, unless solely restricted to employees of the Consulting Agency; or Acts or threats of terrorism.

ii. **CONSEQUENCES**

1. Neither the District Administration nor the Bidder/Agency shall be considered in breach of the Contract to the extent that performance of their respective obligations (excluding payment obligations) is prevented by an Event of Force Majeure that arises after the date of signing of contract.
2. The affected Party prevented from carrying out its obligations under the contract shall give notice to the other Party of an Event of Force Majeure upon it being foreseen by, or becoming known to, the affected Party.
3. If and to the extent that the Bidder/Agency is prevented from executing the Services by the Event of Force Majeure, the Bidder/Agency shall be relieved of its obligations to provide the Services but shall endeavour to continue to perform its obligations under the Contract so far as reasonably practicable and in accordance with Good Operating Practices, [PROVIDED that if and to the extent that the Consulting Agency incurs additional Cost in doing so, the Bidder/Agency shall be entitled to the amount of such Cost [COST BEING DEFINED AS HAVING NO PROFIT COMPONENT] (the Consulting Agency having taken reasonable steps to mitigate the Cost)].
4. If and to the extent that the Bidder/Agency suffers a delay in execution of the contractual services beyond the timeline fixed for each phase as a result of an Event of Force Majeure then it shall be entitled to an extension of the time for completion as may be mutually decided by both the parties.
5. The Bidder/Agency shall be entitled to payment as per payment schedule mentioned in Section 10 after grant of extension of timeline for phase completion prescribed in Section 9 read with 5.7.2.iv due to the period of interruption caused by the Event of Force Majeure.]
6. The Contract Period shall be extended by a period of time equal to the period of interruption caused by an Event of Force Majeure.

iii. **OPTIONAL TERMINATION, PAYMENT & RELEASE**

Irrespective of any extension of time, if an Event of Force Majeure occurs and its effect continues for a period of 365 days, either the District Administration or the Consulting Agency/Bidder may give to the other a notice of termination of contract, provided that if the District Administration is paying fee during Force Majeure, then Consulting Agency will not have a termination right, which shall take effect 30 days after the giving of the notice. If, at the end of the 30-days period, the effect of the Force Majeure continues, the Contract shall terminate. After termination of contract under this Sub-Clause, the Bidder/Agency shall comply with such termination provisions as may be prescribed in the contract and the District Administration shall pay the Consulting Agency an amount calculated and certified in accordance with relevant clauses of termination of contract.

G. LITIGATION:

Any dispute arising out of this RFP or the contract signed by the District Administration with the successful bidder or any other bidder participating in this procurement process shall be subject to the jurisdiction of Jharkhand High Court.

**Deputy Commissioner,
Palamu**

APPENDIX 1:LIST OF 5 SELECTED VILLAGES FOR INSTALLATION OF WATER TREATMENT FACILITY

Sr No	BLOCK	PANCHAYAT	REVENUE VILLAGE	HABITATION	FLUORIDE CONTAMINATION (Mg/L)
1	LESLIGANJ	RAJHARA	RAJHARA	YADAV TOLA	5.08
2	MEDININAGAR	KAURIYA	JORKAT	JORKAT	3.54
3	HAIDERNAGAR	BILASPUR	LAPEYA	MAHTO TOLA	2.48
4	BISHRAMPUR	TOLRA	KUNDI	KUNDI KHAS	2.3
5	CHAINPUR	SALATUA	SALATUA	SALATUA KHAS	2.26

APPENDIX 2:FLUORIDE CONFIRMATORY TEST REPORT- PALAMU

Drinking Water and Sanitation Division, Medininagar
Fluoride Confirmatory Test done by NABL State Lab.Ranchi

S.No.	Block	Panchayat	Village	Habitation	Fluoride Contaminated (Mg/L)
1	Haidernagar	Babhandih	Itwa	Itwa Khas	2.13
2	Haidernagar	Babhandih	Itwa	Itwa Khas	2.03
3	Haidernagar	Bilaspur	Lapeya	Mahto Tola	2.48
4	Lesliganj	Rajhara	Rajhara	Yadav Tola	3.71
5	Lesliganj	Rajhara	Rajhara	Yadav Tola	3.74
6	Lesliganj	Rajhara	Rajhara	Yadav Tola	5.08
7	Lesliganj	Rajhara	Rajhara	Yadav Tola	4.58
8	Lesliganj	Rajhara	Rajhara	Yadav Tola	4.44
9	Lesliganj	Rajhara	Rajhara	Yadav Tola	4.84
10	Lesliganj	Rajhara	Rajhara	Yadav Tola	4.29
11	Bishrampur	Tolra	Kundi	Kundi Khas	2.26
12	Bishrampur	Tolra	Kundi	Kundi Khas	2.30
13	Chainpur	Shahpur	Gurha	Gurha Khas	1.62
14	Chainpur	Kankari	Kankari	Muslim Tola	1.68
15	Chainpur	Kankari	Kurka	Kurka Khas	1.56
16	Chainpur	Rabda	Nenua	Nenua Khas	1.60
17	Chainpur	Budhivir	Jainagara	Jainagar Khas	1.54
18	Chainpur	Rabda	Harinamar	Harinamar Khas	1.58
19	Chainpur	Rabda	Rabda	Rabda Khas	1.82
20	Chainpur	Ramgarh	Ramgarh	Bazar Tola	1.58
21	Chainpur	Ramgarh	Dhuluwa	Dhuluwa Khas	1.54
21	Chainpur	Ramgarh	Dhuluwa	Dhuluwa Khas	1.54
22	Chainpur	Salatua	Salatua	Salatua Khas	2.26
23	Chainpur	Uldanda	Uldanda	Uldanda Khas	2.12
24	Chainpur	Semra	Semra	Semra Khas	2.08
25	Chainpur	Ornar	Ornar	Ornar Khas	1.52
26	Chainpur	Kankari	Hukuwa	Hukuwa Khas	1.56
27	Medininagar	Baralota South	Baralota South	Kacharwa Tola	2.15
28	Medininagar	Kauriya	Jorkat	Jorkat	3.54
29	Patan	Nawa Khas	Nawa Khas	Nawa Khas	1.58
30	Satbarwa	Dhawadih	Lohra Pokhari	Lohra Pokhari Khas	1.54
31	Satbarwa	Bohita	Jogiya Pokhari	Munda Tola	1.58

Scanned with CamScanner

Ashe
Executive Engineer
D.W. & S.Division, Medininagar