



**PANCHAYATIRAJ & DRINKING WATER DEPARTMENT
GOVERNMENT OF ODISHA**

RFP DOCUMENT

**Selection of Agency for Operation &
Maintenance of Rural PWS Works for Cuttack
Division, Cuttack District in the State of Odisha**

Bid Identification No. EIC/RWS&S/11/2018-19

September 2018

**Rural Water Supply & Sanitation,
PR&DW Department, Odisha
Jal 'O' Parimal Bhawan, Bhubaneswar, Odisha, 751001**

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SECTION 1

NOTICE INVITING PROPOSAL

**Office of the Engineer-In-Chief, RWS&S
Odisha, Bhubaneswar**

PANCHAYAT RAJ & DRINKING WATER DEPARTMENT, GOVERNMENT OF ODISHA

Jal 'O' Parimal Bhawan, Bhubaneswar – 751001

URL: www.odishapanchayat.gov.in

Email: cerwssodisha@gmail.com

Telephone Phone: 0674-2395734

Bid Identification No. EIC/RWS&S/11/ 18-19

Dated: 17/09/ 2018

1.1. EIC, RWS&S under the administrative department of Panchayati Raj & Drinking Water Department, Odisha invites sealed proposals (Technical and Financial) from eligible firms/operators for Operation & Maintenance of Rural Piped Water Supply Works for Cuttack Division pertaining to Cuttack District in the State of Odisha

1.2. Schedule of Events

Date of issue of RFP	01.08.2018
Date & Time of Pre Bid Conference	08.08.2018, 1100 hours
Publication of Pre-Bid Clarification in the Department Website	10.08.2018
Last Date & time of submission of RFPs	18.09.2018
Revised Date & time of submission of RFPs	10.10.2018 up to 1700 hours
Date & time of opening of Technical Bid	19.09.2018
Revised Date & time of opening of Technical Bid	11.10.2018 up to 1130 hours
Tentative Date & time of opening of Financial Bid	To be notified later
Period of Contact	3 (three) years
Mode of Bid submission	Hard Copy Submission
Downloading of RFP	www.odishapanchayat.gov.in/ www.odisha.gov.in
Validity of the Bid	The Bid shall be valid for a period of 180 days from the last date of submission of RFP
Consortium/ Joint Venture	Allowed
Bids Submission address & Contact No.	Engineer-in-Chief Rural Water Supply & Sanitation, Odisha Jal O Parimal Bhawan Unit – V, Bhubaneswar, Odisha. Pin Code: 751001 Tel: 0674-2395734 Fax: 0674-2394946 Email: cerwssodisha@gmail.com

Cost of Document	Rs. 10,000/- (Rupees Ten Thousand)
Bid Security (EMD)	Rs. 5,00,000 (Rupees Five Lakhs)
Performance Security	5 % of the Contract Value

- 1.3. Interested parties may download the RFP document (a complete set of document is available on website) from the website **www.odishapanchayat.com/** **www.tendersorissa.gov.in** and submit the proposal by using the downloaded document, along with the required non-refundable document cost as mentioned in Para 1.3 above. The proposal will be rejected if the applicant changes any clause or annexure of the RFP document downloaded from the website.
- 1.4. Prospective applicants may attend the Pre-bid meeting. The venue, date and time are indicated at Para 1.2 above.
- 1.5. Parties shall ensure that their proposals, complete in all respects, are delivered at O/o EIC, RWS&S, Odisha on or before the closing date and time indicated in the Para 1.2 above, failing which the tender proposals will be treated as late receipt and shall be rejected. The Proposals sent by post/ courier must reach the above said address on or before the closing date and time indicated in Para 1.2 above, failing which it will be treated as late tender and shall be rejected.
- 1.6. In the event of any of the above mentioned dates being declared as a holiday / closed day by Government of Odisha, the documents/bids will be sold/received/opened on the next working day during office hours.
- 1.7. The RFP Documents are not transferable.
- 1.8. All Proposals must be accompanied by EMD and Document Fee as prescribed. Proposals without EMD Document Fee shall be rejected.

Sd/-
**Engineer-In-Chief, RWSS,
Odisha, Bhubaneswar**

INTRODUCTION

2.1 Background

The Rural Water Supply & Sanitation (RWS&S) wing of Panchayati Raj & Drinking Water Department, Government of Odisha is engaged in the execution, operation & maintenance of water supply projects in the State of Odisha and as part of this endeavour, the Authority intends to engage an Agency for **Operation & Maintenance of Rural Piped Water Supply Works for Cuttack Bhubaneswar Division pertaining to Cuttack** District in the State of Odisha as per the terms and conditions specified in the RFP document.

2.2 Objectives

The key objective is to operate and maintain the existing rural water supply system, improving the water service quality and ensure continuous delivery of water to the rural consumers.

2.3 Scope of Work

The scope of work will include a comprehensive assessment of the existing system and operation & maintenance of the water supply schemes. The detailed scope of work, infrastructure requirement and the service level parameters are provided in **Section 6** (Terms of Reference).

2.4 Roles and Responsibilities of Parties

2.4.1 Roles of Authority

- (i) Provide all necessary details of the existing water supply system;
- (ii) Facilitate the Agency in obtaining necessary approvals;
- (iii) Payment of all energy bills of all components of the water supply system will be paid by the authority during O&M period.
- (iv) Water quality testing on a regular basis

2.4.2 Roles of Agency

- (i) Operation & Maintenance of the existing water supply system, including pump and motor, water treatment plant, raising mains, service reservoirs and the distribution system;
- (ii) Refurbishment, operation and maintenance of the water supply facilities from the existing water plants to distribution points (stand post/ household connections) including operation, maintenance of water plants and pumping stations;

- (iii) Transmission of treated water and distribution to stand posts/ households;
- (iv) Provide new household connections where ever required;
- (v) Repair and maintenance of the facilities and replacement of all necessary components as and when required of the water supply system;
- (vi) The operator has the flexibility to install automation instruments for better running efficiency;
- (vii) Purchase of consumables such as bleaching powder, sodium/potassium hypochlorite, common salt to be used wherever bleaching doser, electro chlorinator are installed respectively and administration of dosages for water disinfection;
- (viii) Conducting the disposal processes of the WTP sludge including solid waste sludge, strictly in line with the applicable rules and regulations;
- (ix) Carry out operation and maintenance of the water supply systems as per Performance Standards defined in Annexure-6 of this RFP document;
- (x) Complain redressal system to be setup for each PWS Project related to system repairs;

2.5 Duration of the Project

The total duration for operation and maintenance of the Rural PWS project for Cuttack Division is 3 (three) years from the date of signing of contract.

INSTRUCTIONS TO BIDDER

3.1 General Instructions

- a) The Applicant should prepare and submit its proposal (Technical and Financial) as per instructions given in this section.
- b) The proposal shall be completed with all respects. Incomplete proposals shall be liable for rejection.
- c) The prices quoted shall be **firm** and shall include all taxes and duties. This shall be quoted in the prescribed format only as given in **Annexure 1**.
- d) The Proposal (technical and financial) shall be submitted (with a covering letter as per **Annexure 2**) before the last date of submission.

3.2 Earnest Money Deposit (EMD) and Cost of RFP Document

- a) The tender shall be accompanied by Earnest Money Deposit (EMD) of Rs. 5,00,000 (Rupees Five Lakhs) in the shape of Postal Savings, Pass Book/ NSC/ Post Office Time Deposit Account/ Kissan Vikash Patra/ Deposit Receipt in Nationalized/ Scheduled Bank duly pledged in favor of "Engineer-in-Chief, RWSS Odisha, Bhubaneswar"
- b) Proposal submitted without EMD shall be rejected.
- c) The EMD of unsuccessful parties (applicant) will be returned to them after conclusion of the resultant contract. The EMD of the successful bidder will be returned after receipt of performance security as per the terms of contract.
- d) EMD of a applicants may be forfeited without prejudice to other rights of the proposal inviting authority, if the applicant withdraws or amends its proposal or impairs or derogates from the tender in any respect within the period of validity of its tender or if it comes to notice that the information /documents furnished in its tender is incorrect, false, misleading or forged. In addition to the aforesaid grounds, the successful applicant's EMD will also be forfeited without prejudice to other rights of purchaser, if it fails to furnish the required Performance Security within the specified period.
- e) Cost of RFP of Rs. 10,000/- (Rupees Ten thousand only) in the form of demand draft in favor of "Executive Engineer, RWSS Division, Bhubaneswar", payable at Bhubaneswar.

3.3 Structure and Submission of Proposal

- a) The proposals are required to be submitted in two parts (Technical & Financial) separately in sealed envelopes as explained below.

- b) **Envelope 1:** To be marked, as “**Technical Proposal**” shall have two separate envelopes in it marked as “Proof of Eligibility” and “Technical Details” as follows.
- (i) Proof of Eligibility: This will contain the documents in support of eligibility criteria mentioned at Section 4.4.1.
 - (ii) Technical Details: This will contain the documents as mentioned in technical proposal described below;
- c) **Envelope 2:** To be marked as “**Financial Proposal**”
- (i) The applicant shall quote price in the format enclosed as **Annexure I**. The price as quoted shall be for the entire range of activities as defined under **Section 6** of the RFP. It shall cover both capital and operational expenditure to be incurred by the Firm for providing the service. No other payment shall be due to the Firm other than the price as quoted in the Financial Bid
 - (ii) Government shall not pay or bear any cost separately towards capital expenditure. The price offered shall cover both operational and capital expenditure to be incurred by the Firm/ Operator for providing the service.
- d) The two envelopes containing both technical and the financial proposal shall be put in a bigger envelope, which shall be sealed and superscripted with “RFP Reference No. **EIC/RWS&S/11/2018-19** for “RFP for Selection of Agency for Operation & Maintenance of Rural Piped Water Supply Works for Cuttack Division pertaining to Cuttack District in the State of Odisha” due for opening on **11.10.2018**.

The offer shall contain no interlineations or overwriting except as necessary to correct errors, in which cases the person or persons signing the tender must initial such correction. In case of discrepancy in the quoted prices, the price written in words will be taken as valid.

3.4 Content of Technical Proposal (Envelop 1)

a) Technical Proposal (Envelop 1)

It shall be submitted along with a forwarding letter (“**Annexure 2**”) in a sealed envelop duly marked on it in bold letter as “**TECHNICAL PROPOSAL**” and shall contain both Proof of Eligibility and Technical Details in separate envelopes.

b) Proof of Eligibility:

- (i) Tender Cost in form of Demand Draft
- (ii) Postal Savings Pass Book/ NSC/ Post Office Time Deposit Account/ Kissan Vikash Patra/ Deposit Receipt in Nationalized/ Scheduled Bank duly pledged towards **E.M.D.**
- (iii) Confirmation regarding furnishing **Performance Security** in case of award of contract.
- (iv) Original RFP document duly stamped and signed in each page along with the Forwarding Letter confirming the performing the assignment as per “**Annexure 2**”.

- (v) Particulars of the applicant as per “**Annexure 3**”
- (vi) Copy of the certificate of Incorporation /Registration.
- (vii) The bidder must attach audited accounts or certificate duly certified by Chartered Accountant for last three years as supporting documents.
- (viii) Work-orders and/or any other supporting documents/experience certificates issued by any government client pertaining to such works done in the past to evidence the fulfillment of the eligibility criteria with respect to capacity and experience.
- (ix) Power of attorney in favor of signatory to the proposal.
- (x) Copy of the certificate of GST with the appropriate authority.
- (xi) A declaration from the applicant in the format given in the “**Annexure 4**” to the effect that the firm has neither been declared as defaulter or black-listed by any competent authority of a government department, government undertakings, local bodies, authorities.

c) Technical Details:

In addition to the above documents, Technical Proposal shall contain following details:

- (i) Provide a detailed profile of the organization.
- (ii) Provide a write-up on the manner in which the bidder proposes to carry out the assignment. In particular, the write-up must include a detailed description of the following:
 - 1) Details of experience in managing similar projects.
 - 2) Proposed operational modalities with time line
 - 3) Proposed organizational structure with roles and responsibilities
 - 4) Detailed recruitment and training plan
 - 5) Detailed Quality Management System
 - 6) Proposed reporting system

d) Financial Proposal

The second envelope shall contain the financial proposal and shall be marked in bold letters as “**FINANCIAL PROPOSAL**”. Prices shall be inclusive of all taxes and duties and quoted in the format enclosed as “**Annexure 1**”.

3.5 Price Validity & Contract Period

The tenders shall remain valid for six calendar months for acceptance and the prices quoted shall remain firm through the contract period. The contract may be extended further with mutual consent.

3.6 Opening of Proposal:

The technical proposal will be opened at the time and date specified in the schedule. The Proposer may attend the opening proposals, if they so desire.

3.7 Force Majeure:

- a) The Agency shall not be allowed to suspend or discontinue Services during occurrences of emergencies or Force Majeure events. Provided, in such circumstances of emergencies and Force Majeure event, if the Performance Standards are not complied with because of any damage caused to any of the Project Facilities or non-availability of staff, or inability to provide services in accordance with the Performance Standards as a direct consequence of such Force Majeure events or circumstances then no penalties applicable for the relevant default in Performance Standards would be applied to such particular defaults. Provided further, unless the Force Majeure event is of such nature that it completely prevents the operation, a suspension of or failure to provide Services on the occurrence of a Force Majeure event will be an Event of Default.
- b) The failure of a party to fulfill any of its obligations under the agreement shall not be considered to be a default in so far as such inability arises from an event of force majeure, provided that the party affected by such an event (i) Has taken all reasonable precautions, due care and reasonable alternative measures in order to carry out the terms and conditions of the agreement, and (ii) Has informed the other party as soon as possible about the occurrence of such an event.

EVALUATION OF PROPOSAL

4.1 Scrutiny of Proposal

The proposal will be scrutinized to determine whether they are complete and meet the essential and important requirements, conditions and whether the bidder is eligible and qualified as per criteria laid down in Section VI of the RFP. The proposals, which do not meet the aforesaid requirements, are liable to be treated as non-responsive and may be ignored. The decision of the inviting authority as to whether the applicant is eligible and qualified or not and whether the proposal is responsive or not shall be final and binding on the proposers/bidders. Financial Proposal (**Envelop-2**) of only those applicants, who qualify in the technical evaluation, will be considered for opening.

4.2 Infirmary / Non-Conformity

The inviting authority may waive minor infirmity and/or non-conformity in a proposal, provided it does not constitute any material deviation. The decision of the proposal inviting authority as to whether the deviation is material or not, shall be final and binding on the bidders.

4.3 Clarification of RFP Document

Wherever necessary, the proposal inviting authority may, at its discretion, seek clarification from the applicant seeking response by a specified date. If no response is received by this date, the inviting authority shall evaluate the offer as per available information.

4.4 Evaluation Process

Tender Evaluation Committee duly appointed by the department in the following manner shall evaluate the proposals:

Stage 1: The proof of eligibility of all applicants shall be examined to confirm if all eligibility criteria are met. The applicants who fail to meet one or more of the stipulated eligibility criteria shall be declared 'ineligible'.

Stage 2: The technical details of all eligible applicants shall be opened next and evaluated on the parameters as indicated below:

4.4.1 Eligibility Criteria

- a) Entity duly registered /incorporated in India having more than five years of relevant working experience as on the date of submission of the proposal/bid.
- b) Minimum average annual turnover of Rs. 20 Crore in last three financial years (2015-16, 2016-17 & 2017-18). The bidder must attach audited Statement of Accounts duly certified its Statutory Auditor for last three financial years and certificate certifying the last three financial years annual turnover as supporting documents.

- c) Should have experience in operation and maintenance of water supply projects or power utility with coverage of minimum 1000 household connections.
- d) Should not have been involved in any litigation that might compromise the delivery of services as required under this contract.
- e) Should not have been blacklisted by any government agency or public sector undertaking in India.

Note:

- (i) The bidder is required to furnish adequate documentary evidence in support of compliance of eligibility criteria along with the proposal.
- (ii) In case of a Joint Venture/ Consortium, the experience of both the members will be taken into consideration for the purpose of eligibility and evaluation. For avoidance of doubt, combined technical and financial experience of the Lead Member and other JV member should meet the requirement as per Clause 4.4.1 of Eligibility Criteria. The Lead Member should meet the technical experience.

4.4.2 Evaluation Criteria

Criteria for Evaluation	Marks	Maximum
Experience in construction and operation & maintenance of similar projects (Piped Water Supply or power utility)		30
More than three years but less than five years	20	
More than five years	30	
Experience in operation & maintenance of other infrastructure projects		10
More than three years but less than five years	5	
More than five years	10	
Avg. Annual Turnover in last three years as per audited statement of accounts:		25
Up to Rs. 25 Cr.	15	
More than Rs. 25 Crore	25	
Experience in operation and maintenance of water supply or power utility projects with coverage of minimum 1000 household connections in India		35
One project	20	
For additional three projects	15	
Total	100	100

In case of a Joint Venture/ Consortium, the experience of both the members will be taken into consideration for the purpose of eligibility and evaluation. For avoidance of doubt, combined technical and financial experience of the Lead Member and other JV

member should meet the requirement as per Clause 4.4.2 of Evaluation Criteria. The Lead Member should meet the technical experience.

Technical proposals scoring less than 60 marks shall be declared as 'not qualified' and their financial proposals shall not be opened.

4.5 Opening of Financial Proposal

Final selection shall be on least cost basis (L1) only among those bidders who scores minimum qualifying mark of 60 in technical evaluation.

TERMS AND CONDITIONS

5.1 Signing of Contract

The proposal inviting authority shall issue the Notice for Award of Contract to the successful bidder within the bid validity period. And the successful bidder will be required to sign and submit the contract unconditionally within 21 days of receipt of such communication (award of contract) along with the performance security.

5.2 Modification to Contract

The contract when executed by the parties shall constitute the entire contract between the parties in connection with the assignment and shall be binding upon the parties. Modification, if any, to the contract shall be in writing and with the consent of the parties. However, in no circumstances, the contract should be inconsistent with the RFP provisions.

5.3 Performance Security

- a) The successful Firm/ Operator shall furnish a performance security in the shape of a Demand Draft/Bank Guarantee/Fixed Deposit Receipt issued by a Nationalised Bank having branch at Bhubaneswar and should be drawn in favour of Tender Inviting Authority for an amount equivalent to 5% of the Contract value. The Bank guarantee shall be as per the format given at "Annexure 5" and remain valid for a period, which is three months beyond the date of expiry of the contract. This shall be submitted within 21 days (minimum) of receiving of Notice for Award of Contract, failing that the EMD may be forfeited and the contract may be cancelled.
- b) If the firm/ Operator violates any of the terms and conditions of contract, the Performance Security shall be liable for forfeiture, wholly or partly, as decided by the authority in addition to premature termination of the contract.
- c) The Purchaser will release the Performance Security without any interest to the Firm (Agency) on successful completion of contractual obligations.

5.4 Compliance of Minimum Wages Act and other applicable Labour Laws

The Firm/ Agency shall comply with all the provisions of Minimum Wages Act and any other labour laws as applicable.

5.5 Employees Provident Fund and Employees State Insurance

The firm / Agency shall comply with all the requirements of EPF and ESI Rules and make necessary payments to its employees.

5.6 Income Tax Deduction at Source

Income tax deduction at source shall be made at the prescribed rates from the bills amount payable to the Firm/ Agency. The deducted amount will be reflected in the requisite Form, which will be issued at the end of the financial year.

5.7 Payment

a) Monthly Service Charges/Fees:

- (i) The payment will be made on monthly basis subject to the submission of correct and complete invoice along with supporting by the Agency. The Agency will raise its invoice on monthly basis at contracted rate to RWS&S, Odisha by 1st week of next month.
- (ii) On receipt of the statement of claim, concerned section/cell under RWS&S, Odisha shall study the correctness and completeness of the claim and supporting documents. All adjustments on the ground of penalty or short performance shall be calculated and recorded properly. The concerned section/cell shall complete the verification in 7 working days and issue a deficiency note, if any to the Agency. On receipt of the same, the Agency shall revert rectifying the deficiencies and submit the final claim to RWS&S, Odisha.
- (iii) Within 15 days of submission of final claim with required supporting documents and duly scrutinized by the concerned Section/ Cell, RWS&S will release the payment.

b) Penalties:

Inability of the proposed solution and setup to deliver the required functionality at performance levels expected at the specified volumes (including the expected increase in volumes) would result in breach of contract and would invoke the penalty clause. The proposed rate of penalty would be as per **Annexure-6** of this RFP document for non-compliance to the performance levels, for that particular year, subject to an upper limit of 10% of value total O&M cost payable in that year.

Inability of the vendor to provide services at the service levels defined would result in breach of contract and would invoke the penalty clause. The proposed rate of penalty would be as per **Annexure-6** of this RFP document for non-compliance to, the service levels for every percentage below the expected levels of service, for that particular service or product, subject to an upper limit of 10% of value of total O&M cost payable in that year. Overall cap for penalties will be 10% of the contract value. Thereafter, the contract may be cancelled and amount paid if any, will be recovered with 1.25% interest per month. The above penalty clauses shall be applicable from the 4th month of operation.

5.8 Damages for Mishap/Injury

The department shall not be responsible for damages of any kind or for any mishap/injury/accident caused to any service engineer/ personnel/property of the firm/ Agency while performing duty. All liabilities, legal or monetary, arising in that eventuality shall be borne by firm/ Agency.

5.9 Termination/Suspension of Agreement:

The Client may, by a notice in writing suspend the agreement if the Agency fails to perform any of his obligations including carrying out the services, provided that such notice of suspension --

- Shall specify the nature of failure, and
- Shall request remedy of such failure within a period not exceeding 15 days after the receipt of such notice.

The Client after giving 30 days clear notice in writing expressing the intention of termination by stating the ground/grounds on the happening of any of the events (a) to (d), may terminate the agreement after giving reasonable opportunity of being heard to the Agency.

- a) If the Agency do not remedy a failure in the performance of his obligations within 15 days of receipt of notice or within such further period as the Client have subsequently approve in writing.
- b) If the Agency becomes insolvent or bankrupt.
- c) If, as a result of force majeure, Agency is unable to perform a material portion of the services for a period of not less than 60 days: or
- d) If, in the judgment of the Client, the Agency is engaged in corrupt or fraudulent practices in competing for or in implementation of the project.

5.10 Arbitration

- a) If dispute or difference of any kind shall arise between the purchaser and the firm/ Agency in connection with or relating to the contract, the parties shall make every effort to resolve the same amicably by mutual consultations.
- b) If the parties fail to resolve their dispute or difference by such mutual consultations within thirty days of commencement of consultations, then either the purchaser or the firm/ Agency may give notice to the other party of its intention to commence arbitration, as hereinafter provided. The applicable arbitration procedure will be as per the Arbitration and Conciliation Act, 1996 of India. In that event, the dispute or difference shall be referred to the sole arbitration of an officer to be appointed by the proposal inviting authority as the arbitrator. If the arbitrator to whom the matter is initially referred is transferred or vacates his office or is unable to act for any reason, he / she shall be replaced by another person appointed by tender inviting officer to act as Arbitrator. Such person shall be entitled to proceed with the matter from the stage at which his predecessor left it.
- c) Work under the contract shall, notwithstanding the existence of any such dispute or difference, continue during arbitration proceedings and no payment due or

payable by the Purchaser or the firm / Agency shall be withheld on account of such proceedings unless such payments are the direct subject of the arbitration.

- d) Reference to arbitration shall be a condition precedent to any other action at law.
- e) Venue of Arbitration: The venue of arbitration shall be the place from where the contract has been issued, i.e. Bhubaneswar.

5.11 Applicable Law and Jurisdiction of Court:

The contract shall be governed by and interpreted in accordance with the laws of India for the time being in force. The Court located at the place of issue of contract shall alone have jurisdiction to decide any dispute arising out of in respect of the contract. It is specifically agreed that no other Court shall have jurisdiction in the matter.

Terms of Reference

6.1 Scope of Services

The Agency shall operate & maintain the RPWS projects for 3 (three) calendar years as per the details given below.

- Supplying required manpower including payment of their wages/ remuneration (requirement of manpower as per Clause 6.6.) for running of pumps at head works/ WTP/ operation of valves at head works, treatment unit, rising main, gravity main and distribution system. Repair of rising main, distribution system, gravity main including repair of stand post and valves chambers, watch and ward of head works, treatment unit, service reservoir and gravity main.
- Supply of consumable like bleaching powder, sodium or calcium hypochlorite, alum/PAC, lime, alum required for treatment of water as per water supply manual as treatment unit according to the turbidity of raw water and maintenance of required residual chlorine at the farthest point of delivery.
- Payment of all energy bills of all components of the water supply system will be paid by the Gram Panchayat during the O&M period.
- Minor & major repair of all civil structural units, electrical and mechanical equipment to run the water supply effectively and efficiently during the O&M period. The items wise list of major repair works has been mentioned in Clause 6.7 of the TOR. For all major repair works, the Operator / Agency shall develop the necessary infrastructure and the payment of the same shall be made to the Agency by the Authority/ Government as per the latest Schedule of Rates (SOR) of Odisha.
- Besides this, any other special repair to civil/ PHE structures, electrical & mechanical equipments etc. are to be done by the contractor as and when required, as per the direction of Engineer-in-Charge for ensuring uninterrupted water supply.
- Payment of manpower, chemicals, consumables, all repairs (minor/ major/ special) shall be borne by the Agency during the O&M period.
- The maintenance work shall be taken up by the Agency as mentioned in this Section
- The Agency shall furnish the information as per the checklist for operation and maintenance mentioned above to the Engineer-in-Charge in a weekly basis, monthly basis, quarterly basis and yearly basis.

6.2 Roles and Responsibilities of Parties

6.2.1 Roles of Authority

- (i) Provide all necessary details of the existing water supply system;

- (ii) Facilitate the Agency in obtaining necessary approvals;
- (iii) Payment of all energy bills of all components of the water supply system will be paid by the authority during O&M period.
- (iv) Water quality testing on a regular basis

6.2.2 Roles of Agency

- (i) Operation & Maintenance of the existing water supply system, including pump and motor, water treatment plant, raising mains, service reservoirs and the distribution system;
- (ii) Refurbishment, operation and maintenance of the water supply facilities from the existing water plants to distribution points (stand post/ household connections) including operation, maintenance of water plants and pumping stations;
- (iii) Transmission of treated water and distribution to stand posts/ households;
- (iv) Provide new household connections where ever required;
- (v) Repair and maintenance of the facilities and replacement of all necessary components of the water supply system;
- (vi) The operator has the flexibility to install automation instruments for better running efficiency;
- (vii) Purchase of consumables such as bleaching powder, sodium/potassium hypochlorite, common salt to be used wherever bleaching doser, electro chlorinator are installed respectively and administration of dosages for water disinfection;
- (viii) Purchase of chlorine and administration of dosages for water purification;
- (ix) Conducting the disposal processes of the WTP sludge including solid waste sludge, strictly in line with the applicable rules and regulations;
- (x) Complain redressal system to be setup for each PWS Project related to system repairs;

6.3 Annual Maintenance of RPWS

1. All materials, components of the piped water supply systems during the period of maintenance shall be the property of Gram Panchayat/ RWSS Organization where the system is installed.
2. Maintenance of the entire system including supply of necessary spare parts

3. Ensure all the house hold of the PWS Scheme covered area will get (adequate) required quantity of supply water @ 40 LPCD taking supply hour as 4 hours/day without facing any problem.
4. The requisite numbers of qualified and trained personnel are required to be deputed / available.
5. The deputed personnel shall be qualified and well trained so that they can handle any type of operation hazard quickly and timely.
6. The deputed personnel shall have to keep the record on daily and monthly basis for the PWS systems as per format to be supplied after commissioning of the PWS.
7. The deputed personnel shall be in a position to check and test all the equipment regularly, so that preventive actions, if any, could be taken well in advance to save any equipment from damage.
8. During the maintenance period of the systems, if there is any defect of any component of all systems the supplier shall be responsible for immediate replacement / rectification. The damaged component may be repaired, if it is understood after examination that after repairing performance of the component shall not be degraded, otherwise the defective component shall have to be replaced by new one without any extra cost.

6.4 Annual Maintenance Instructions:

- 6.4.1 The executants shall furnish 4 copies of maintenance instructions in Odiya / English for approval and supply 5 sets of the approve manuals of instructions at the time of inspection and taking over of the equipment. These manuals shall properly bound in book form and contain all information, description of equipment, diagram etc. necessary to enable the customer to operate and maintain the whole scheme.
- 6.4.2 Systems personnel shall be deputed on such basis so that a qualified / trained person with a minimum Technical qualification should be available at site always during the maintenance period.
- 6.4.3 The Agency shall depute an engineer of their company for the maintenance of the systems who shall be fully responsible for the complete maintenance and optimum operation of the systems. The name and contact nos. of this engineer shall be notified to the Engineer-In-Charge and Gram Panchayat/ VWSC for the purpose of contact, responsibility and correspondence with regard to all trouble shooting.
- 6.4.4 Replacement & repair of damaged parts shall be carried out immediately during the maintenance period so as to ensure at least 95% uptime.
- 6.4.5 Systems operation reports in a format prescribed by the Engineer-In-Charge shall be furnished by the Agency on a monthly basis.

6.4.6 The Agency shall ensure replacement of worn out parts and component during the maintenance period for which purpose the supplier shall carry and maintain minimum inventory of spares at the systems and its works.

6.5 Routine, preventive, breakdown& Capital Maintenance:

6.5.1 Routine and Preventive maintenance shall include such checks and maintenance activities monthly / quarterly / half yearly and yearly basis which are required to be carried out on all the components of the systems to minimize breakdown and to ensure smooth and trouble free running of the all systems. The supplier shall be responsible to carryout routine and preventive maintenance and replacement of each and every component/ equipment of the water supply system and he shall provide all labour, materials, consumables etc. for routine and preventive maintenance of his own cost even though there is no complaint arise in that period and to be recorded in a register duly checked by the Junior Engineer, RWSS and the president of any committee responsible for the piped water supply in the GP/Village or any other member nominated by the Engineer-in-charge/Block Development officer.

- a) Maintenance of BFV/SV/NRV/AV in each month. (The change of gland, nut and bolt etc.) or if required within that period. The change of spindle and ball should be made every year.
- b) Maintenance of Internal Electrification, The change of relay, kitkat, fuse, capacitor etc. in every year or if required within that period.
- c) Maintenance of chlorination system should be made in every day and it should be seen that the residue to be cleaned and the plant is in perfect operating condition.
- d) (i) The pump house, compound wall (includes doors, windows, window grills main gate etc.), RCC UGR/OHR, shall be painted at the end of 2nd year and 4th year by the approved paint as per IS specification and direction of Engineer-in-charge.

(ii) The G.I./ MS pipes used for UGR/OGR laid over in head works & distribution system shall be painted every year after monsoon.
- e) The RCC UGR/OHT tank shall have to be disinfected in every year with proper cleaning.
- f) The pumps and motors installed in the production well shall be removed for overhauling in the manufacturer's approved service centre and to replace the worn out parts at the end of 2nd and 4th year and if required before that. The pump and motor to be replaced in case any major damage occurs and if the repair will be uneconomical as per the direction of engineer-in-charge.
- g) Replacement of taps fitted in standalone storage tank & stand posts must be made as and when complaint is received with the best quality GM/brass taps within 24 hours as it will lead to waste of water.

- h) The above maintenance activities are binding upon the Agency, in case of any failure or negligence in the part of the Agency to attend the complain the Department will take up the work under intimation to the Agency and action will be taken as per the condition of contract.
- 6.5.2 Breakdown maintenance shall mean the maintenance activity including repairs and replacement of any component or equipment of the all systems which is not covered by routine and preventive maintenance and which is required to be carried out as a result of sudden failure / breakdown of that particular component or equipment while the systems is running. The Agency shall be responsible to carry out breakdown maintenance of each and every component of the PWS systems and he shall provide the required manpower, materials, consumables, components or equipment etc. for breakdown maintenance at his own cost irrespective of the reasons of the breakdown/ failure.
- 6.5.3 Capital maintenance shall mean the major overhaul of any component or equipment of the PWS systems with which is not covered by routine, preventive and breakdown maintenance which may become necessary on account of damage due to any unforeseen reason which needs replacement. The capital maintenance of PWS systems and all civil structures shall normally be planned to be carried out on an annual basis. For this purpose a joint inspection by the Agency and Engineer-In-Charge shall be carried out of all the major components of systems, about two months in advance of the Annual Maintenance period. In order to ascertain as to which components of the systems require capital maintenance. In this regard the decision of the Engineer-In-Charge will be final and binding. However, if the condition of any systems and component warrants its capital maintenance at any other time, a joint inspection of the Agency & Engineer-In-Charge shall be carried out immediately on occurrence of such situation and capital maintenance shall be carried out. If required, in consultation with concerned authorities. The decision of the Engineer-In-Charge shall be final and binding.
- 6.5.4 All the security deposit and maintenance cost will be released to the Agency by the Executive Engineer only after recommendation of Junior Engineer / Assistant Engineer and Assistant Executive Engineer of concern RWS&S Divisions.
- 6.5.5 The Agency shall maintain a complaint register which shall be kept at pump house and any complaint received shall be attended within 24 hour. The deputed personnel shall be available in the pump house from 10.00 A.M to 1.30 P.M. to receive the complain
- 6.5.6 The Agency shall repair the following type of defects within 24hrs of receipt of complaint or shutdown of the scheme. The detail of complain to be entered in the complaint register.
- a) Leakage in PVC/GI/HDPE/DI/CI pipe line, Column pipe used for pump motor and for ESR/GSR.
 - b) Leakage in Valve & Stand post tap.

- c) Any type of internal electrical problem, problem in panel board, in Pump & motor, Cable etc.
- d) Damage made in pipe line due to any accident or road repair work or any other reasons.

6.5.7 Repair of PVC/GI/HDPE/DI/CI Pipeline with earth work in excavation & refilling the trench & making good of the road to pre-condition in case of any kind of built up road viz. (WBM/ concrete/RCC/ bituminous) road.

All the cost of labour, materials for repair and replacement during the maintenance period shall be borne by the Agency. The inside and outside of the structures constructed for the PWS project should be kept clean, free from bush and debris and to be a state-of- the-art project for the community.

6.6 Requirement of manpower for O&M

This is an indicative one. The bidder has to assess the same as per the requirement of the project for O&M works.

S No.	System component as per flow line	Category	Required number
1	Overall supervision of O&M of the system	Maintenance Engineer (Minimum qualification Diploma in Civil)	One person for 50 projects
2	Clear water Pump house with production well	1. Pump Operator 2. Watch man	For each pump house
3	Raw water pump house for surface source	1. Pump Operator 2. Watch man	For each pump house
4	Clear water pump house at WTP	1. Pump Operator 2. Watchman	For each clear water pump house
5	Raw water rising main	1. Fitter 2. Helper	For raw water rising main
6	WTP works	1. Valve Operator 2. Helper	For each WTP works.
7	Clear water rising main & distribution	1. Fitter 2. Helper	One number for clear water rising main
8	UGR/ OHT	1. Valve Operator	In case single village project, pump operator will function as valve operator

Check Lists for Operation and Maintenance

A regular schedule of inspection of machinery, equipment their lubrication and servicing programme must be prepared and circulated. Appropriate supervisory control should be exercised to see that these inspections, lubrications and servicing are being regularly carried out. Proper maintenance of pumping machinery needs a trained and skilled staff and should

be well conversant with the equipment. In several cases, a simple trouble which can be set right with a spanner by a skilled hand is converted into a major overhaul by unskilled or semiskilled hand.

The spare parts required for routine maintenance shall be procured well in advance to avoid unnecessary delay in carrying out repairs.

The operator should however be able to maintain log book properly and regularly indicating the fuel consumption, hours worked and quantity of water pumped etc., The log book of the equipment should also indicate the record of break downs and repairs, data wise and cost of repairs and consumption of fuel etc., This record would provide a fairly good idea and timely indication about the particular equipment being worn out, requiring major over-haul or replacement

1. Source & Intakes

- (i) Monitoring for inflows
- (ii) Monitoring for Drawals
- (iii) Quality of Raw Water
- (iv) Industrial & Domestic Discharge
- (v) Action plan for pre-chlorination of raw water

2. Transmission

- (i) Check for stock of spare pipes and specials and jointing materials for replacement
- (ii) Performance of Sluice valves, air valves, expansion joints, rollers
- (iii) Leak detection surveys
- (iv) Inspect record of break downs and to identify vulnerable lengths for special attention

3. Treatment Plant

- (i) Flow Meter
- (ii) Cleaned of silt
- (iii) Calibration and checking accuracy
- (iv) Servicing

4. Chemical Feeding Unit

- (i) Painting alum tanks
- (ii) Cleaning of V notch weirs and floats
- (iii) Spares for mixing unit
- (iv) Inspect Jar test facilities

5. Flash mixer

- (i) painting
- (ii) Spares for flash mixer

6. Flocculator

- (i) Painting
- (ii) Lubrication of mechanical devices
- (iii) Non-mechanical - desludging for every six months

7. Clarifier

- (i) Overhauling
- (ii) Painting prior to monsoon
- (iii) Condition of sludge lines
- (iv) Free movement of telescopic sludge device
- (v) Check for Alignment of wheels-rubber wheels may be replaced
- (vi) Outlet weirs (Biological growth - Algae growth)
- (vii) Efficiency of various units
- (viii) Trolley Wheels
- (ix) Lubricating
- (x) Reduction gear box
- (xi) Checking oil
- (xii) Turn table
- (xiii) Checking oil
- (xiv) Vehicle motors
- (xv) Cleaning of dust
- (xvi) Carbon brushes
- (xvii) Bearings
- (xviii) Rail / Track
- (xix) Gap between two rails and Alignments
- (xx) Rubber wheels - Wear & tear, alignment
- (xxi) MS Scrapper & Bolts and nuts

8. Rapid Gravity Filters

- (i) Check for water quality at various stages Daily Check for alum dose
- (ii) Check for washing

Note the readings regarding:

- (iii) Quantity of water received
- (iv) Quantity of water wasted
- (v) Quantity of filtered water produced
- (vi) Quantity of water consumed for back
- (vii) washing of filters
- (viii) Pressure gauge reading at blower
- (ix) Loss of head for filters just before wash & after wash
- (x) Rate of filtration
- (xi) Quality of filtered water
- (xii) Observation for any sand carried away
- (xiii) Adequate depth of water over filter media
- (xiv) Status of operation of valves
- (xv) Performance of blower
- (xvi) Uniform washing of bed by air and water

- (xvii) (search for dead pockets)
- (xviii) Check for sand depth & air binding
- (xix) Observe length of filter run and loss of head and compare
- (xx) Observe rate of filtration
- (xxi) Performance of filter regarding output & quality
- (xxii) Check the surface of filter media for cracks, encrustation of media, mud balls
slime growths
- (xxiii) Check for media depth
- (xxiv) Check performance of filters
- (xxv) Status of functioning of: Instrumentation, Valves, Blowers
- (xxvi) Check for corrosion of all underwater equipment

9. Chlorinators

Note the following readings:

- (i) Dosage of chlorine, Residual of chlorine and Pressure readings of chlorine
- (ii) In case of doser chlorinator, daily cleaning of the containers with fresh water.
- (iii) In case of electro chlorinators ,putting common salt as per requirement
- (iv) In case of batch method of electro chlorinator putting common salt as per requirement on daily basis and cleaning of reaction tank after supply of water
- (v) Cleaning of electrode on regular interval.
- (vi) Uninterrupted supply of water for chlorinator
- (vii) Check the incoming water lines
- (viii) Check the solution feeder lines
- (ix) Check the ventilation of chlorine house
- (x) Check the structural safety of chlorine house

10. Transformers (In case maintained by Department)

- (i) Oil level in transformer
- (ii) Relay alarm circuit
- (iii) Load (Amperes)
- (iv) Voltage
- (v) Bushings
- (vi) Dehydrating breathers
- (vii) Voltage tap changing switch
- (viii) Dielectric strength of oil
- (ix) AB switch contacts
- (x) Drop in fuse contacts
- (xi) All bus bars
- (xii) Earth resistance
- (xiii) Lightning arresters
- (xiv) Relays
- (xv) Oil in transformers
- (xvi) Once in 2 years
- (xvii) Painting to transformers, poles and fencing

11. Motors

Daily checks

- (i) Eliminate dirt (Less than 1 000 KVA)
- (ii) Oiling and greasing to avoid friction
- (iii) Check for vibration
- (iv) Check for tightness of contacts
- (v) Operation at rated voltage
- (vi) Check tripping elements to offer protection
- (vii) Inspect contact points for any deposition
- (viii) Clean the cabinet to remove dirt
- (ix) Check for fuse ratings
- (x) Check whether manufacturers recommendations are followed regarding
- (xi) Quality of oil and grease
- (xii) Correct periodical of lubrication
- (xiii) Check for performance of capacitors

12. Pumps

Daily Checks:

- (i) Timing of pump running
- (ii) Observe for leakges through stuffing box
- (iii) Bearing temperature
- (iv) Any undue noise or vibration
- (v) Readings of pressure, voltage and current

Half Yearly checks

- (vi) Free movement of the gland of stuffing box
- (vii) Cleaning and oiling of gland bolts
- (viii) Inspection of the gland packing
- (ix) Alignment of pump and drive
- (x) Cleaning of oil lubricated bearings/or grease lubricated and replacing oil and grease
- (xi) Clean and examine all bearings for flows

Annual Checks :

- (i) Examine shaft sleeves for wear or scour
- (ii) Check clearance at wearing ring
- (iii) Check impeller hubs and vane tips for pitting or erosion
- (iv) Calibration of all instruments and flow meters
- (v) Check performance of pump Q, H, KW and efficiency
- (vi) Check for availability of required tools
- (vii) Check for availability of lubricants and other consumables such as gland packing, bolts etc.
- (viii) Check for repair facilities such as pullers, clamps, machinery, welding set, grinder,
- (ix) blower, drilling machine etc.

- (x) Records to be kept on the Operations :
- (xi) Note the water levels in the SR s (for all compartments) at hourly intervals.
- (xii) Note the time and relevant operation of control valves with time of opening and closure or throttling position of the valves.
- (xiii) Note the hourly flow meter readings both on the inlets and outlets
- (xiv) Note the hourly residual chlorine readings of inflow water and outflow water
- (xv) Record on when the structure of the reservoir was last repaired to attend to structural defects or arrest leakage and the cost of materials and labour cost thereof
- (xvi) Record on when the reservoir was last cleaned and the cost of materials and labour cost thereof
- (xvii) Record on when the reservoir was last painted and the cost of materials and labour cost thereof
- (xviii) Record on when the piping at the reservoir was last painted and the cost of materials and labour cost thereof

13. Clear Water Sump and Service Reservoir (SR)

- (i) Check for proper closure of washout valves
- (ii) Check for functioning of Water level indicators
- (iii) Check for status of ventilators; whether Fly proof mesh over ventilators requires to be replaced
- (iv) Check for the status of Manhole covers; are they corroded ?
- (v) Check the water quality and find the necessity to clean and disinfect insides
- (vi) Check whether the roof of SR is clean and whether the surroundings of SR are clean
- (vii) Check whether the Operation of valves is smooth without any abrupt stoppage during closure
- (viii) Check for leakage through valves at gland, bolts or any other place
- (ix) Check whether closure of a valve results in complete stoppage of flow or if any flow passes the valve (passing valve)
- (x) Check for any structural damages to the reservoir especially whether the roof is corroded due to chlorination and assess the structural soundness of the reservoir
- (xi) Assess the status of ladder and railings whether corroded?
- (xii) Check for leakage through the structure of the SR
- (xiii) Check for leakage through interconnecting pipe work at the SR
- (xiv) Check for any signs of corrosion of interconnecting pipe work at the SR
- (xv) Inspect for any possibilities of pollution of the water stored in the reservoir
- (xvi) Status of out-fall drain for scour and overflow
- (xvii) Assess the need for painting of the reservoir and piping work
- (xviii) Assess the status of lightning arrestor where provided
- (xix) Check for the availability of consumables, spares and tools

14. Checks to be carried out in the distribution system:

- (i) Check whether the Operation of valves is smooth without any abrupt stoppage during closure
- (ii) Check whether closure of a valve results in complete stoppage of flow or if any flow passes the valve (passing valve)

- (iii) Check for status of scouring and then proper closure of washout valves
- (iv) Check for leaks through pipes
- (v) Check for leakage through valves at gland, bolts or any other place
- (vi) Check for leaks at the appurtenances
- (vii) Check for any signs of corrosion of pipelines
- (viii) Check for the status of Manhole covers over the chambers; are they corroded ?
- (ix) Inspect for any possibilities of pollution of the distribution system water stored
- (x) Status of out-fall drain for scour and overflow
- (xi) Assess the need for painting of the piping work
- (xii) Check for availability of spares for valves and pipes and jointing materials
- (xiii) Review the method of giving consumer connections in the field
- (xiv) Preparation of water budget for each zone
- (xv) served by one reservoir
- (xvi) Number of connections given
- (xvii) Status of Distribution System
- (xviii) Review of pressures
- (xix) Review of flows
- (xx) Study of inflows and outflows
- (xxi) Identify source of leakage
- (xxii) Unauthorised connections if any
- (xxiii) Review facilities for repair of consumer meters
- (xxiv) Availability of updated system map

6.7. Major Works

The items wise list of all major repair works has been mentioned below and rest all are minor works. For all major repair works, the Operator / Agency shall develop the necessary infrastructure and the payment of the same shall be made to the Agency by the Authority/ Government as per the latest Schedule of Rates (SOR) of Odisha.

Head Works

- Source failure
- Source Inadequacy
- Transformer damage
- Theft of conductor

Distribution line

- Damage of pipeline (necessitating replacement)

6.7. CHECK LIST FOR MAINTENANCE

Name of PWS:

Name of the contractor:

District/ Division:

Block/ GP/ Village:

Date of commission of the scheme:

Defect liability period from to

Agreement No.:

Maintenance period from to

Date of inspection/ reporting:

Name of person inspected/ reported:

Designation (not below the rank of JE/ AE):

1. Surrounding of pump house, intake well, OHT, WTP, UGR, clean & maintain
2. Painting & coloring done (once a every 2 years)
Month & year to be indicated
3. Log book updated:
4. Leakage in pipeline/ SV/ NRV noticed:
5. No. of stand post functioning:
6. Total no. of stand post:
7. No. of complaint received:
8. No. of complaint attended:
9. Adequate pressure at the highest level:

Yes	No
Yes	No
Yes	No
Yes	No

10. PWS out of order due to power failure:

Days

Years

11. PWS out of order due to mechanical & other failure:

Days

Years

Signature of JE/ AE

Verified & found correct & recommended for payment:

Signature of AE/ AEE/ DEE

Accepted for payment:

Signature of EE

NB: *In case AE/ AEE/ DEE do not agree to the report then he shall return the report to the reporting officer with reason.*

6.8. Exit Management

At the end of the contract, the Agency has to support an orderly, controlled transition of responsibility for the provision of the services to the new Agency without any disruption in the services to RWSS. The Agency is required to submit the Exit Management Plan 6 months before the completion of the contract. The Exit Management Plan shall be based on mutually agreed terms between Agency and RWSS.

6.9. Consideration

- (a) The Client (RWS&S, Odisha) do hereby agree that if the an Agency shall duly implement the project in the manner aforesaid, observe and keep the said terms and conditions then the Client will pay or cause to be paid to the Agency at the time and in the manner set forth in the said terms.
- (b) The payment pattern will be as specified below-
 - (i) The payment will be made on monthly basis subject to the submission of correct and complete invoice along with supporting by the Agency. The Agency will raise its invoice on monthly basis at contracted rate to RWS&S, Odisha by 1st week of next month.
 - (ii) On receipt of the statement of claim, concerned section/cell under RWS&S, Odisha shall study the correctness and completeness of the claim and supporting documents. All adjustments on the ground of penalty or short performance shall be calculated and recorded properly. The concerned section/cell shall complete the verification in 7 working days and issue a deficiency note, if any to the Agency. On receipt of the same, the Agency shall revert rectifying the deficiencies and submit the final claim to RWS&S, Odisha.
 - (iii) Within 15 days of submission of final claim with required supporting documents and duly scrutinized by the concerned Section/ Cell, RWS&S will release the payment.

FORMS & FORMATS

ANNEXURE-1

FORMAT FOR FINANCIAL PROPOSAL

Dated:

To,
The Engineer-In-Chief, RWS&S
Jal 'O' Parimal Bhawan,
Unit-5, Bhubaneswar - 751001
Office Phone: (0674) 2395734

Sub: Request For Proposal (RFP) for "Selection of Agency for Operation & Maintenance of Rural Piped Water Supply Works for Cuttack Division pertaining to Cuttack District in the State of Odisha"

- (a) We, the undersigned, offer to provide above service in accordance with your RFP. Our Financial proposal for project is given as below;

S. No	Description	Rate inclusive of all expenditure (Capital and Recurring)	Applicable Taxes or Levies, if any.	Total (Amount in Rs.)
1	O&M Cost for Year 1			
2	O&M Cost for Year 2			
3	O&M Cost for Year 3			

- (b) Our financial proposal shall be binding upon us subject to any modifications resulting from contract negotiations, up to the expiration of the validity period of the proposal, i.e.....(date).
- (c) We undertake in competing for and, if the award is made to us, in executing the above services, we will strongly observe the laws against fraud and corruption to force in India namely Prevention of Corruption Act 1988. We understand that you are not bound to accept any proposal you receive.

Yours sincerely,
Authorized Signature:
(Name, Designation and Address)

COVERING LETTER (TECHNICAL PROPOSAL)

**Letter of Proposal
(On Applicant s Letter Head)**

Dated:

To,
**The EIC, RWS&S
Jal 'O' Parimal Bhawan,
Unit-5, Bhubaneswar - 751001**

Sub: Request For Proposal (RFP) for Selection of Agency for Operation & Maintenance of Rural Piped Water Supply Works for Cuttack Division pertaining to Cuttack District in the State of Odisha”.

Dear Sir,

- a) With reference to your RFP document No._____dated _____, I/we, having examined the Bidding Documents and understood their contents, hereby submit my/our Proposal for the aforesaid Project. The Proposal is unconditional and unqualified.
- b) All information provided in the Proposal and in the Annexure to that is true and correct.
- c) This statement is made for the express purpose of qualifying as an Applicant for undertaking the Project.
- d) I/ We shall make available to the Authority/Department any additional information it may find necessary or require to supplement or authenticate the proposal.
- e) I/ We acknowledge the right of Authority/Department to reject our Proposal without assigning any reason or otherwise and hereby waive our right to challenge the same on any account whatsoever.
- f) We certify that in the last three years, we have neither failed to perform on any contract, as evidenced by imposition of a penalty or a judicial pronouncement or arbitration award, nor been expelled from any project or contract nor have had any contract terminated for breach on our part.
- g) I/ We declare that:
 - (b) I/ We have examined and have no reservations to the RFP Documents, including any Addendum issued by the Authority.
 - (c) I/ We hereby certify that we have taken steps to ensure that, no person acting for us or on our behalf has engaged or will engage in any corrupt practice, fraudulent

practice, coercive practice, undesirable practice or restrictive practice.

- h) I/ We declare that we are not a Member of a/ any other firm submitting a Proposal for the Project.
- i) I/ We certify that in regard to matters other than security and integrity of the country, we have not been convicted by a Court of Law or indicted or adverse orders passed by a regulatory authority which could cast a doubt on our ability to undertake the Project or which relates to a grave offence that outrages the moral sense of the community.
- j) I/ We further certify that in regard to matters relating to security and integrity of the country, we have not been charge-sheeted by any agency of the Government or convicted by a Court of Law for any offence committed by us or by any of our Associates.
- k) We further certify that no investigation by a regulatory authority is pending either against us or against our Associates or against our CEO or any of our Directors/ Managers/ employees.
- l) In the event of my/ our being declared as the successful, I/We agree to enter into an Agreement in accordance with the draft that has been provided to in the RFP document. We agree not to seek any changes in the aforesaid draft and agree to abide by the same.
- m) The Fee has been quoted by me/us after taking into consideration all the terms and conditions stated in the RFP.
- n) I/We undertake to provide Performance Security of amount equivalent to 5% of the contract value in case the contract being awarded to us.
- o) The Proposal Cost of Rs. 10,000/- in the form of a Demand Draft (DD no. ----- dated ----- drawn on -----, ----- Branch) is attached.
- p) The EMD of Rs. 5,00,000 (Rupees Five Lakhs) in the form of in the shape of Postal Savings Pass Book/ NSC/ Post Office Time Deposit Account/ Kissan Vikash Patra/ Deposit Receipt in Nationalized/ Scheduled Bank duly pledged in favor of "Engineer-in-Chief, RWSS Odisha, Bhubaneswar".
- q) I/We agree and understand that the Proposal is subject to the provisions of the RFP Documents. In no case, I/We shall have any claim or right of whatsoever nature if the Project is not awarded to me/us or our Proposal is not opened.
- r) I/We agree to keep this offer valid for 180 (one hundred and eighty) days from the Proposal Due Date specified in the RFP.
- s) I/We agree and undertake to abide by all the terms and conditions of the RFP document. In witness thereof, I/we submit this Proposal under and in accordance with the terms of the RFP document.

Yours faithfully,

Date: (Signature of the Authorized signatory)

Place: (Name and designation of the of the Authorized signatory)

Name and seal of Bidder

PARTICULARS OF THE APPLICANT

1. NAME OF THE FIRM:

2. REGISTERED OFFICE:

4. DATE OF INCORPORATION:

5. CONSTITUTION OF THE FIRM:

6. Names of Govt. Dept. / Public Sector undertaking /International clients to whom the bidder has provided similar services, if any:

7. MAIN BUSINESS ACTIVITIES:

8. DETAILS OF MAIN BRANCHES:

9. Annual turnover of the Firm (in INR) from Similar Assignments in India during last three Financial Years. (Please attach copy of the Audited Financial Statements and Statutory Auditor's Certificate clearly specifying the annual turnover for the specified years)

2015-2016:

2016-2017:

2017-2018:

10. DETAILS OF CONTACT PERSONS

NAME:

DESIGNATION:

CONTACT TEL. NO:

MOBILE NO:

FAX NO:

EMAIL ID:

POSTAL ADDRESS:

(Signature of Authorized signatory)

ANNEXURE-4

DECLARATION BY BIDDER

I / We agree that we shall keep our price valid for a period of one year from the date of approval. I / We will abide by all the terms & conditions set forth in the tender documents No. /

I / We do hereby declare I / We have not been de- recognized / black listed by any State Govt. / Union Territory / Govt. of India / Govt. Organisation / Govt. Health Institutions.

Signature of the Applicant:

Date

Name & Address of the Firm:

Affidavit before Executive Magistrate / Notary Public in Rs.50.00 stamp paper.

ANNEXURE-5

PROFORMA FOR BANK GUARANTEE

To,
**The EIC, RWS&S,
Jal 'O' Pariamal Bhawan,
Unit-5, Bhubaneswar - 751001
Office Phone: (0674) 2395734**

WHEREAS.....(Name and address of the Agency)
(Hereinafter called "Agency" has undertaken, in pursuance of contract No.....
dated (Herein called "the Contract") to _____.

AND WHEREAS it has been stipulated by you in the said contract that the Agency shall furnish you with a bank guarantee by a scheduled commercial bank recognized by you for the sum specified therein as security for compliance with its obligations in accordance with the contract;

AND WHEREAS we have agreed to give such a bank guarantee on behalf of the Agency;

NOW THEREFORE we hereby affirm that we are guarantors and responsible to you, on behalf of the Agency, up to a total of..... (Amount of the guarantee in words and figures), and we undertake to pay you, upon your first written demand declaring the Agency to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the Agency before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the contract to be performed there under or of any of the contract documents which may be made between you and the Agency shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid up to 24 (fifteen) months from the date of signing of contract i.e. up to..... (Indicate date)

.....
(Signature with date of the authorized officer of the Bank)

.....
Name and designation of the officer

RFP for Selection of Agency for Operation & Maintenance of Rural Piped Water Supply Works for Cuttack
Division pertaining to Cuttack District in the State of Odisha

.....
Seal, name & address of the Bank and address of the Branch

ANNEXURE-6

PERFORMANCE STANDARDS

1. Water Quality Parameters

The Agency has to provide dis-infected water. The residual at the tail end should be at least 0.2ppm.

2. Service Level Parameter

S No.	Parameters	Standards
1	Hours of operation	At-least 4 hours (minimum 2 hours in morning & evening) daily
2	Flow Discharge	Flow should be 10 ltr/minute at any given point of time
3	Supply of water	40 lpcd (at the pump house outlet)
4	Complaint Management System	At least 80% of the complaints received should be attained within 24 hours and resolved within 72 hours of registration

3. Penalties

S No.	Description	Penalty Imposed
1	Penalty for not meeting the water quality parameters	0.5% of monthly O&M Cost
2	Penalty for not meeting the hours of supply of water as per the SLB	1.0% of monthly O&M Cost
3	Penalty for not meeting the flow of discharge as per the SLB	0.5% of monthly O&M Cost
4	Penalty for not meeting the supply of water as per the SLB	0.5% of monthly O&M Cost
5	Penalty for breakdown of WTP	Beyond 48 hours, 0.5% of monthly O&M Cost
6	Penalty for breakdown of pumping stations, pumps etc.	Beyond 24 hours, 0.5% of monthly O&M Cost
7	Penalty for breakdown/ leakages in pipelines	Beyond 48 hours, 0.5% of monthly O&M Cost

Details of the Project/ Schemes to be covered for O&M under the Contract

(Enclosed in next page)

Format for details of existing water supply schemes for Banki

Sl. No.	Block	Name of Scheme	Type of Source	Number of Sources	Quantity of water supplied (per day) in Ltr	UGR Capacity (Yes/No)	OHT Capacity (Yes/No)	Rising Main Category	Type of Pipe	Length of pipeline in mtr	Type of Pump	Type of Treatment	No. of HH connections	No. of Stand posts	Population (2011)	
1	2	3	4	5	6	7	8	9	10	11	12	14	15	16	17	
1	BANKI	PWS to Anuary	OPENWELL	1	134000	NO	60000	GI	100 GI	100	HORIZ SUB	5 HP,/50M/4.5LPS	CHLOR	340	1	1434
		5 YEAR MAINTAINANCE	PRWELL	2					160 PVC		VERT SUB	3 HP/ 50M/ 2.7 LPS				
									110 PVC	3305	VERT SUB	3 HP/ 50M/ 2.7 LPS				
									90 PVC	252						
									63 PVC							
2		PWS to Kurumchaini	RIVER	2	128500	NO	50000	GI	100 GI	30	VERT SUB	5 HP,/50M/4.5LPS		24	2601	
			OPENWELL	2					160 PVC		VERT SUB	5 HP,/50M/4.5LPS				
									110 PVC	359	VERT SUB	5 HP,/50M/4.5LPS				
									90 PVC	1400	HORIZ SUB	5 HP,/50M/4.5LPS				
									63 PVC							

3		PWS to Baideswar	RIVER	2	3890 00	1000 00	NO	GI	160 GI	300	VERT SUB	5 HP,/50M/4.5LP S	CHLO RI	105	70	8567
			PR WELL	4		1000 00			160 PVC	976 0	VERT SUB	5 HP,/50M/4.5LP S				
						2000 00			110 PVC	720 0	HORIZ SUB	7.5 HP/ 50M/6.7 LPS				
									90 PVC	551 2	HORIZ SUB	5 HP,/50M/4.5LP S				
									63 PVC		VERT SUB	2 HP/ 50M/1.8 LPS				
											VERT SUB	2 HP/ 50M/1.8 LPS				
											VERT SUB	2 HP/ 50M/1.8 LPS				
											VERT SUB	2 HP/ 50M/1.8 LPS				
4		PWS to Balabhadrapur	OPEN WELL	2	1320 00	2000 0	4000 0	GI	160 PVC	787	HORIZ SUB	3 HP/ 50M/ 2.7 LPS			40	3306
			PR WELL	1					110 PVC	264 5	HORIZ SUB	5 HP,/50M/4.5LP S				
									90 PVC	150 0	VERT SUB	3 HP/ 50M/ 2.7 LPS				
									63 PVC	780	HORIZ SUB	7.5 HP/ 50M/6.7 LPS				
5		PWS to Bandalo	OPENW ELL	1	1930 00	NO	5000 0	GI	100 GI	400	HORIZ SUB	5 HP,/50M/4.5LP S		368	1	2076
			PR	4			5000		160		VERT SUB	5				

			WELL				0		PVC			HP,/50M/4.5LP S				
									110 PVC	322 4	VERT SUB	5 HP,/50M/4.5LP S				
									90 PVC	844	VERT SUB	5 HP,/50M/4.5LP S				
									63 PVC		VERT SUB	5 HP,/50M/4.5LP S				
6		PWS to Baraput	PR WELL	2	7800 0	1000 00	5000 0	GI	100 GI	396	VERT SUB	3 HP/ 50M/ 2.7 LPS	CHLO RI		30	3826
			OPEN WELL	1					160 PVC		VERT SUB	3 HP/ 50M/ 2.7 LPS				
									110 PVC	195 0	HORIZ SUB	5 HP,/50M/4.5LP S				
									90 PVC	150 0	HORIZ SUB	5 HP,/50M/4.5LP S				
									63 PVC	492						
7		PWS to Baunsaput	PR WELL	2	2000 00	NO	5000 0	GI	100 GI	42	VERT SUB	3 HP/ 50M/ 2.7 LPS			36	4043
			OPENW ELL	1					160 PVC		VERT SUB	1 HP/50M/ 1LPS				
									110 PVC	117 0	HORIZ SUB	5 HP,/50M/4.5LP S				
									90 PVC	358 3						
									63 PVC							
8		PWS to Berahampura	PR WELL	2	1870 00	NO	NO	GI	100 GI	30	VERT SUB	3 HP/ 50M/ 2.7 LPS			60	4239

									160 PVC		VERT SUB	3 HP/ 50M/ 2.7 LPS				
									110 PVC	370						
									90 PVC	395						
									63 PVC	0						
9		PWS to Golaganda	OPENWELL	1	91000	NO	50000	GI	100 GI	48	VERT SUB	5 HP,/50M/4.5LPS		224	1	771
									160 PVC		VERT SUB	3 HP/ 50M/ 2.7 LPS				
									110 PVC	171						
									90 PVC	680						
									63 PVC							
10		PWS to Jagannathpur	PRWELL	4	116000	NO	NO	GI	100 GI	45	VERT SUB	5 HP,/50M/4.5LPS		50	25	2285
									160 PVC		VERT SUB	5 HP,/50M/4.5LPS				
									110 PVC	240	VERT SUB	2 HP/ 50M/1.8 LPS				
									90 PVC	330	VERT SUB	2 HP/ 50M/1.8 LPS				
									63 PVC							
									110 HDPE							
11		PWS to Kadalibari	PRWELL	2	249000	NO	50000	GI	160 GI	50	VERT SUB	3 HP/ 50M/ 2.7 LPS			36	5151
			OPENWELL	1			50000		160 PVC	800	VERT SUB	2 HP/ 50M/1.8 LPS				

									110 PVC	205 0	HORIZ SUB	5 HP,/50M/4.5LP S						
									90 PVC	355 5								
									63 PVC									
1 2		PWS to Kalapathara	PR WELL	4	3410 00	1000 00	NO	GI	100 GI	130	VERT SUB	3 HP/ 50M/ 2.7 LPS				30		7683
			OPEN WELL	1		2000 00			160 PVC	986 1	VERT SUB	3 HP/ 50M/ 2.7 LPS						
									110 PVC	282 0	VERT SUB	3 HP/ 50M/ 2.7 LPS						
									90 PVC	150 0	VERT SUB	3 HP/ 50M/ 2.7 LPS						
									63 PVC	410 0	HORIZ SUB	7.5 HP/ 50M/6.7 LPS						
											HORIZ SUB	7.5 HP/ 50M/6.7 LPS						
											HORIZ SUB	5 HP,/50M/4.5LP S						
											VERT SUB	3 HP/ 50M/ 2.7 LPS						
1 3		PWS to Kalipoi -I	OPEN WELL	1	8400 0	1000 00	NO	GI	100 GI	42	VER SUB	5 HP,/50M/4.5LP S			120	25		3122
			PR WELL	3					160 PVC		VERT SUB	3 HP/ 50M/ 2.7 LPS						
									110 PVC	429 0	HORIZ SUB	5 HP,/50M/4.5LP S						
									90 PVC	254 0	VERT SUB	2 HP/ 50M/1.8 LPS						
									63 PVC		VERT SUB	3 HP/ 50M/ 2.7						

												LPS					
									110 HDPE	600	VERT SUB	3 HP/ 50M/ 2.7 LPS					
1 4		PWS to Kalipoi -II	OPEN WELL	1	1190 00	NO	6000 0	GI	100 GI	270	HORIZ SUB	7.5 HP/ 50M/6.7 LPS	CHLO RI	250	1	1236	
		5 YEAR MAINTAINANCE							160 PVC		VERT SUB DUAL	5 HP,/50M/4.5LP S					
									110 PVC	217 0							
									90 PVC	710							
									63 PVC								
1 5		PWS to Gholapur	PR WELL	2	1880 00	1000 00	5000 0	GI	160 GI	48	VERT SUB	5 HP,/50M/4.5LP S			48	4758	
									160 PVC	164 0	VERT SUB	3 HP/ 50M/ 2.7 LPS					
									110 PVC	330 0	HORIZ SUB	5 HP,/50M/4.5LP S					
									90 PVC	241 2							
									63 PVC								
1 6		PWS to Kendupalli	OPEN WELL	2	1700 00	NO	5000 0	GI	100 GI	78	HORIZ SUB	5 HP,/50M/4.5LP S			21	4256	
									160 PVC	498	VERT SUB	3 HP/ 50M/ 2.7 LPS					
									110 PVC	270 5	HORIZ SUB	5 HP,/50M/4.5LP S					

									90 PVC	275 0							
1 7		PWS to Kiapalla-I	OPEN WELL	1	1470 00	NO	NO	GI	100 GI	30	HORIZ SUB	5 HP,/50M/4.5LP S		30	30	1726	
									160 PVC								
									110 PVC	220 0							
									90 PVC	245 0							
									63 PVC								
1 8		PWS to Kiapalla-II	OPEN WELL	3	1360 00	1000 00	5000 0	GI	100 GI	405	HORIZ SUB	5 HP,/50M/4.5LP S	CHLO R	325	1	1996	
		5 YEAR MAINTAINANCE	PR WELL	2					160 PVC		VERT SUB	3 HP/ 50M/ 2.7 LPS					
									110 PVC	441 0	VERT SUB	3 HP/ 50M/ 2.7 LPS					
									90 PVC	180	HORIZ SUB	5 HP,/50M/4.5LP S					
									63 PVC		HORIZ SUB	5 HP,/50M/4.5LP S					
											HORIZ SUB	3 HP/ 50M/ 2.7 LPS					
											HORIZ SUB	3 HP/ 50M/ 2.7 LPS					
1		PWS to Ostia	OPENW	3	2600	2500	NO	GI	150 GI	120	HORIZ SUB	7.5 HP/		100	45	4528	

9			ELL		00	00						50M/6.7 LPS				
			PR WELL	6					160 PVC	3740	VERT SUB	5 HP,/50M/4.5LPS				
									110 PVC	3896	VERT SUB	5 HP,/50M/4.5LPS				
									90 PVC	4240	HORIZ SUB	5 HP,/50M/4.5LPS				
									63 PVC	996	VERT SUB	5 HP,/50M/4.5LPS				
									100 GI	320	VERT SUB	5 HP,/50M/4.5LPS				
									90 GI	280	HORIZ SUB	5 HP,/50M/4.5LPS				
											VERT SUB	1 HP/50M/1LPS				
											VERT SUB	1 HP/50M/1LPS				
20		PWS TO Puincha	PR WELL	3	120000	100000	NO	GI	100 GI	36		5 HP,/50M/4.5LPS		102	50	3121
			OPEN WELL	1					160 PVC		VERT SUB	3 HP/ 50M/ 2.7 LPS				
									110 PVC	4200	VERT SUB	3 HP/ 50M/ 2.7 LPS				
									90 PVC	1382	HORIZ SUB	7.5 HP/ 50M/6.7 LPS				
									63 PVC		VERT SUB	3 HP/ 50M/ 2.7 LPS				

21	PWS to SUBARNAPUR	RIVER	2	320000	100000	NO	GI	150 GI	120	VERT SUB	10 HP/ 50M/9 LPS	CHLORRI		98	8087
		PR WELL	2		200000			160 PVC	2550	VERT SUB	10 HP/ 50M/9 LPS				
					100000			110 PVC	5050	HORIZ SUB	10 HP/ 50M/9 LPS				
								90 PVC		VERT SUB	10 HP/ 50M/9 LPS				
								63 PVC		VERT SUB	10 HP/ 50M/9 LPS				
										HORIZ SUB	5 HP,/50M/4.5LPS				

INFORMATION OF PWS FOR MAINENANCE WORK BARANGA BLOCK

S L N O	BLOC K	NAME OF SCHEME	TYPE OF SOURCE	NO OF SOURCE	QNTY OF WATER SUPPLIED(per day) lt	UGR CAPACITY (yes/no)	OHT CAPA CITY (yes/no)	RISIN G MAIN CATE GORY	TY PE OF PI PE	LENG THOF PIPE LINE IN MTR	TYPE OF PUMP	TYPE OF TREATM ENT	NO OF HOUSE CONNE CTION	NO OF STA ND POST	PO PU ASP ER 201 1
1	BARA NGA	PWS TOMUNDALI	200M M.P.W	2	187200lt r	NO	NO	PVC	PV C	7712	7.5 & 5 HP VERTICAL SUBMERSIBLE	Bleaching Dosing Pump (Not functionin g)	355	18	562 5

2	BARA NGA	PWS TO NARAJ	200M M P.W	2	176400lt r	NO	40000	PVC	PV C	3582	7.5 & 5 HP VERTICAL SUBMERSIBLE	Bleaching Dosing Pump (Not functionin g)	378	12	280 6
3	BARA NGA	PWS TO MARTHAPUR	200M M P.W	1	75600ltr	NO	40000	MSPIP E	PV C	2100	5 HP SOLAR DUAL		182	7	117 2
4	BARA NGA	PWS TO RAMDASPUR	200M M P.W / OPEN WELL(5mt dia)	2	129600lt r	NO	10000 0	MS PIPE	PV C	5090	7.5 HP VERTICAL SUBMERSIBLE/H ORIZONTAL SUBMERSIBLE	Bleaching Dosing Pump (Not functionin g)	298	9	222 2
5	BARA NGA	PWS TO KUNEIPADA	200M M P.W	1	162000lt r	NO	NO	MSPIP E	PV C	6650	7.5 HP VERTICAL SUBMERSIBLE/H ORIZONTAL SUBMERSIBLE		88	8	276 8
6	BARA NGA	PWS TO MADHUBAN	200M M P.W	2	163800lt r	NO	NO	MSPIP E	PV C	3846	7.5 & 7.5 HP VERTICAL SUBMERSIBLE		124	7	172 8
7	BARA NGA	PWS TO PHULAPOKHARI	150M M P.W	1	113400lt r	NO	NO	MSPIP E	PV C	3500	5 HP VERTICAL SUBMERSIBLE	Electrochl orinator (not functionin g)	225	8	190 8

8	BARANGA	PWS TO SRIBANTAPUR	200M M.P.W	1	97200	NO	NO	PVC	PVC	2400	5 HP VERTICAL SUBMERSIBLE		178	6	1889
9	BARANGA	PWS TO BARANGA	200M M.P.W	3	277200ltr	50000	NO	MSPIPE	PVC	6398	10 HP, 7.5 HP & 7.5 HP VERTICAL SUBMERSIBLE		485	5	6402
10	BARANGA	PWS TO BELAGACHIA	200M M.P.W	1	88200ltr	NO	20000	MSPIPE	PVC	2748	5 HP VERTICAL SUBMERSIBLE	Electrochlorinator (not functioning)	52	8	1820
11	BARANGA	PWS TO KHALARDA	200M M.P.W	1	113400ltr	NO	40000	MSPIPE	PVC	5500	7.5 HP VERTICAL SUBMERSIBLE		287	12	1725
12	BARANGA	PWS TO USUMA	200M M.P.W	1	100800ltr	NO	NO	MSPIPE	PVC	3596	5 HP VERTICAL SUBMERSIBLE		148	8	1859
13	BARANGA	PWS TO SUMANDI	200M M.P.W	1	63000ltr	NO	NO	PVC	PVC	2100	3 HP VERTICAL SUBMERSIBLE	Bleaching Dosing Pump (Not functioning)	135	9	1258
14	BARANGA	PWS TO NAGARI	200M M.P.W	2	126400ltr	NO	NO	MSPIPE	PVC	4100	7.5 HP & 7.5 HP VERTICAL SUBMERSIBLE		85	9	1142

15	BARANGA	PWS TO MAIDHARAPADA	200M M.P.W	1	75600ltr	NO	NO	PVC	PVC	2900	5 HP VERTICAL SUBMERSIBLE	Electrochlorinator (not functioning)	55	8	936
16	BARANGA	PWS TO KURANGA SASAN	200M M.P.W	1	100800ltr	NO	NO	MSPIPE	PVC	5096	5 HP VERTICAL SUBMERSIBLE	Electrochlorinator (not functioning)	356	14	2401
17	BARANGA	PWS TO BADAJHARILO	200M M.P.W	1	97200ltr	NO	NO	PVC	PVC	4480	7.5 HP VERTICAL SUBMERSIBLE		125	8	1792
18	BARANGA	PWS TO GANGESWAR	200M M.P.W	1	88200ltr	NO	40000	MSPIPE	PVC	5098	5 HP VERTICAL SUBMERSIBLE		48	9	1830
19	BARANGA	PWS TO KURANGA PRADHAN	200M M.P.W	1	129600ltr	NO	40000	MSPIPE	PVC	3770	7.5 HP VERTICAL SUBMERSIBLE	Electrochlorinator (not functioning)	132	12	2083
20	BARANGA	PWS TO BRAHAMNAJHARILO	200M M.P.W	1	86400ltr	NO	NO	MSPIPE	PVC	3980	5 HP VERTICAL SUBMERSIBLE		85	8	2390
21	BARANGA	PWS TO ANDHOTI	200M M.P.W	1	126000ltr	NO	NO	PVC	PVC	5084	7.5 HP VERTICAL SUBMERSIBLE		48	8	1203

2 2	BARA NGA	PWS TO HARIANTA	200M M P.W	1	75600ltr	NO	NO	PVC	PV C	3066	5 HP VERTICAL SUBMERSIBLE	Bleaching Dosing Pump (Not functionin g)	12	4	101 5
2 3	BARA NGA	PWS TO KORAKARA	200M M P.W	1	105840lt r	NO	NO	MSPIP E	PV C	2490	7.5 HP VERTICAL SUBMERSIBLE	Electrochl orinator (not functionin g)	224	12	104 3
2 4	BARA NGA	PWS TO SAINSO	200M M P.W	1	113400lt r	NO	40000	MSPIP E	PV C	5910	7.5 HP VERTICAL SUBMERSIBLE		175	9	262 6
2 5	BARA NGA	PWS TO GABABASTA	200M M P.W	P	126000lt r	NO	50000	MSPIP E	PV C	5820	7.5 HP VERTICAL SUBMERSIBLE	Bleaching Dosing Pump (Not functionin g)	185	12	195 9
2 6	BARA NGA	PWS TO RAIPUR	200M M P.W	1	63000ltr	NO	NO	PVC	PV C	1600	3 HP VERTICAL SUBMERSIBLE		47	2	635
2 7	BARA NGA	PWS TO JAYPUR	200M M P.W	1	63000	NO	NO	MSPIP E	PV C	2800	5 HP VERTICAL SUBMERSIBLE		8	6	136 5

Format for details of existing water supply schemes for Damapada

Sl. No	Block	Name of Scheme	Type of Source	Number of Sources	Quantity of water supplied (per day) in Ltr	UGR Capacity (Yes/No)	OHT Capacity (Yes/No)	Rising Main Category	Type of Pipe	Length of pipeline in mtr	Type of Pump	Type of Treatment	No. of HH connections	No. of Stand posts	Population (2011)
1	Damapada	Banara	P well	2	168000	200000	No	100 mm MS	PVC	3830	3HP-1no 2HP-1no 5HP-1no	Chlorination		32	4456
2		Bhagipur	P well	3	42320	No	No	100 mm MS	PVC	3945	3HP-2no 5HP-1no	Chlorination	70	35	1448
3		Gayalabanka	P well	2	86360	No	No	100 mm MS	PVC	2432	3HP-1no 5HP-1no	Chlorination		32	2850
4		Billipada	P well	3	150040	No	No	100 mm GI	PVC	2681		Chlorination		35	3935
5		Damapada	i)Open well	4	484000	No	No	150 mm CI	PVC	13820	12.5HP-2no 7.5HP-2no	Chlorination	850	100	5676
			ii)P well	4							5HP-3no, 3HP-1	Chlorination			

1 1		Naragang	i)P well	2	1680 00	2000 0	No	100 mm GI	PV C	4568	5 HP- 1no hor, 2HP- 2no vertic al				5080
			ii)Open well	1											
1 2		Chakuleswar (5 YEARS MAINTAINANCE)	P well	2	8022 0	1000 00	5000 0	100 mm MS	PV C	1720	5 HP- 1no, 3HP- 1no vertic al	Chlorinati on	168	1	796
1 3		Pathapur	P well	2	5240 0	No	1000 00	100 mm MS	PV C	2544	5 HP- 1no, 3HP- 1no vertic al	Chlorinati on		22	4553
1 4		Amarendrapur	P well	2	7600 0	No	No	100 mm MS	PV C	1350	5 HP, 3HP vertic al	Chlorinati on		24	
1 5		Ragadi	Open well	1	1254 80	No	No	100 mm GI	PV C	5536	7.5H P-1no hor	Chlorinati on		35	4590
1 6		Similipur	P well	4	2172 80	No	1000 00	100 mm GI	PV C	6268	5 HP- 4 no vertic	Chlorinati on	147	56	7250

											al				
17		Karabar (5 YEARS MAINTAINANCE)	i)P well	2	1514 10	2000 0	5000 0	100 mm GI	PV C	4647	5 HP- 2 no vertic al		308	1	1515
			ii)Intake well	1							7.5H P-1 no Hor				
18		Padanpur	P well	2	9280 0	No	No	100 mm MS	PV C	5190	5 HP- 1 no, 3 HP- 1 vertic al		58	29	1366
19		Talabasta	P well	2	3224 00	2000 00	No	160 mm MS	PV C	5150	2HP, 3HP vertic al	Chlorinati on		25	11361
20		Tulasipur	i)P well	2	2580 80	No	No	160 mm MS	PV C	2262	2HP - 2 no Ver,	Chlorinati on		35	2009
			ii)Open well	1							5HP- 1 no Hor				

INFORMATION OF PWS FOR MAINENANCE WORK KANTAPADA BLOCK

S L N O	BLOCK	NAME OF SCHEME	TYPE OF SOURC E	NO OF SOU RCE	QNTY OF WATER SUPPLI ED(per day) lt	UGR CAPACITY (yes/no)	OHT CAPA CITY (yes/n o)	RISING MAIN CATEG ORY	TY PE OF PI PE	LENGT HOF PIPE LINE IN MTR	TYPE OF PUMP	TYPE OF TREATM ENT	NO OF HOUSE CONNE CTION	NO OF STA ND PO ST	PO PU ASP ER 201 1
1	KANTA PADA	PWS TO ADASHPUR	200MM P.W	2	97000	NO	10000 0	PVC	PV C	7012	10 HP &5 HP VERTICAL SUBMERSIBLE	-	102	35	269 0
2	KANTA PADA	PWS TO BADAPATASUNDAR PUR	200MM P.W	1	97000	NO	NO	PVC	PV C	4584	7.5 HP VERTICAL SUBMERSIBLE		21	20	315 2
3	KANTA PADA	PWS TO BAGALPUR	200MM P.W	1	76000	NO	NO	PVC	PV C	2840	5 HP VERTICAL SUBMERSIBLE		88	15	177 5
4	KANTA PADA	PWS TO SUNDARGRAM	200MM P.W	1	97000	NO	50000	PVC	PV C	5562	7.5 HP VERTICAL SUBMERSIBLE/H ORIZONTAL SUBMERSIBLE		165	16	115 6
5	KANTA PADA	PWS TO BADAMULEI	200MM P.W	1	151000	NO	NO	PVC	PV C	6000	10 HP VERTICAL SUBMERSIBLE		63	23	220 0
6	KANTA PADA	PWS TO BRAMHANABATI	200MM P.W	1	151000	NO	NO	PVC	PV C	4604	10 HP VERTICAL SUBMERSIBLE		175	16	133 3

7	KANTA PADA	PWS TO BRAHMANASAILO	200MM P.W	1	151000	NO	50000	PVC	PV C	5096	10 HP VERTICAL SUBMERSIBLE			130	25	242 2
8	KANTA PADA	PWS TO DHANAMANDAL	200MM P.W	1	97000	NO	NO	PVC	PV C	4596	7.5 HP VERTICAL SUBMERSIBLE			150	20	222 2
9	KANTA PADA	PWS TO DIMIRI	200MM P.W	1	302000	NO	NO	PVC	PV C	8235	7.5 HP VERTICAL SUBMERSIBLE			221	35	233 5
10	KANTA PADA	PWS TO GOVINDAPUR	200MM P.W	2	194000	NO	NO	PVC	PV C	4194	3 HP & 10 HP VERTICAL SUBMERSIBLE			125	25	210 9
11	KANTA PADA	PWS TO JHARAPADA	200MM P.W	2	194000	NO	NO	PVC	PV C	8250	3 HP & 10 HP VERTICAL SUBMERSIBLE			160	36	186 0
12	KANTA PADA	PWS TO KANTAPADA	200MM P.W	1	97000	NO	NO	PVC	PV C	4420	7.5 HP VERTICAL SUBMERSIBLE			150	16	292 7
13	KANTA PADA	PWS TO NAHALPUR	200MM P.W	1	97000	NO	NO	PVC	PV C	3406	7.5 HP VERTICAL SUBMERSIBLE			77	20	193 3
14	KANTA PADA	PWS TO GONADALA	200MM P.W	1	97000	NO	NO	PVC	PV C	4050	7.5 HP VERTICAL SUBMERSIBLE			67	19	198 4
15	KANTA PADA	PWS TO MEGHA	150MM P.W	1	43000	NO	NO	PVC	PV C	648	3 HP VERTICAL SUBMERSIBLE			14	3	224

1 6	KANTA PADA	PWS TO RANIPADA	150MM P.W	1	43000	NO	NO	PVC	PV C	1091	3 HP VERTICAL SUBMERSIBLE			30	8	330
1 7	KANTA PADA	PWS TO JAGANATHAPUR	150MM P.W	1	43000	NO	NO	PVC	PV C	1091	3 HP VERTICAL SUBMERSIBLE			12	6	184
1 8	KANTA PADA	PWS TO NUAGAON GRAM	150MM P.W	1	43000	NO	NO	PVC	PV C	2290	3 HP VERTICAL SUBMERSIBLE			75	21	174 6
1 9	KANTA PADA	PWS TO NUAGAON SASAN	150MM P.W	1	43000	NO	NO	PVC	PV C	2100	3 HP VERTICAL SUBMERSIBLE			35	10	744
2 0	KANTA PADA	PWS TO RAHAMBA	200MM P.W	3	205000	NO	NO	PVC	PV C	7352	3HP, 5 HP & 7.5 HP VERTICAL SUBMERSIBLE			245	23	219 1
2 1	KANTA PADA	PWS TO URADHA	200MM P.W	1	151000	NO	NO	PVC	PV C	4928	10 HP VERTICAL SUBMERSIBLE			102	10	164 2
2 2	KANTA PADA	PWS TO KALIAGARA ONE	200MM P.W	1	76000	NO	NO	PVC	PV C	3000	7.5 VERTICAL SUBMERSIBLE			30	20	120 0
		AUG TO KALIAGARA TWO	200MM P.W	1	43000	NO	NO	PVC	PV C	1098	3 HP VERTICAL SUBMERSIBLE			15	12	600
2 3	KANTA PADA	PWS TO UTTARANA	200MM P.W	1	151000	NO	NO	PVC	PV C	6448	10 HP VERTICAL SUBMERSIBLE			221	17	236 5

		AUG TO BABAJA	200MM P.W	1	76000	NO	20000	PVC	PVC	2014	5 HP VERTICAL SUBMERSIBLE		85	12	570
24	KANTA PADA	PWS TO POSTAL(UNDER 5YEARS MAINTANANCE)	200MM P.W	2	194400	NO	70000	PVC	PVC	5820	7.5 HP & 7.5 HP VERTICAL SUBMERSIBLE	CLORINATION	285	12	1728
25	KANTA PADA	PWS BALIPADA(UNDER 5YEARS MAINTANANCE)	200MM P.W	2	150000	NO	50000	PVC	PVC	4775	7.5 HP & 7.5 HP VERTICAL SUBMERSIBLE	CLORINATION	263	7	1114
26	KANTA PADA	PWS BADAUBARAI(UNDER 5YEARS MAINTANANCE)	200MM P.W	2	172800	NO	70000	PVC	PVC	6645	7.5 HP & 7.5 HP VERTICAL SUBMERSIBLE	CLORINATION	361	7	2433

Format for details of existing Water Supply Schemes for Mahanga

Sl No	Block	Name of Scheme	Type of Source	No of Sources	Quantity of water supplied (Per day)in litre	UGR Capacity (Yes/NO)	OHT Capacity (Yes/NO)	Rising main Category	Type of Pipe	Length of Pipe	Type of Pump	Type of Treatment	No of House connections	No of Stand Posts	Population (2011)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	Mahanga	Anandapur	PW-1	1	75500	NO	NO	GI	PVC	8220	7.5 HP Submerssible		30	22	1735

2	Mahanga	Khartanga (5Yr. Maintenance included)	PW-1	1	13200 0	NO	50000 ltr	GI	PV C	6830	7.5 HP Submerssible	Dozer Chlorinat or	459	1	1729
3	Mahanga	Bajpura	PW-1	1	94000	NO	NO	GI	PV C	6900	7.5 HP Submerssible		78	36	2172
4	Mahanga	Barehipur	PW-2	2	15000 0	NO	NO	GI	PV C	9600	7.5 HP=2 Submerssible		5	50	3442
5	Mahanga	Basudevpur	PW-2	2	12000 0	NO	NO	GI	PV C	5350	10 & 7.5 HP Submerssible		90	12	2752
6	Mahanga	Jhadeswarpur	PW-1	1	17200 0	NO	NO	GI	PV C	1190 0	6HP Submerssible		nill	42	3961
7	Mahanga	Bheda	PW-1	1	95000	NO	NO	GI	PV C	5425	7.5 HP Submerssible		9	48	2183
8	Mahanga	Barahipur	PW-2	2	11700 0	NO	NO	GI	PV C	6154	6.0 HP Submerssible		nill	53	2684
9	Mahanga	Chahapada	PW-1	1	10900 0	NO	NO	GI	PV C	1031 5	7.5 HP Submerssible		6	50	2515
10	Mahanga	Jahal 5Yr Maintenance included	PW-1	1	80000	NO	NO	GI	PV C	4870	5 HP Submerssible		320	0	1007

11	Mahanga	Gokana	PW-1	1	106000	NO	40000liter	GI	PVC	10775	5 HP Submerssible	Electro Chlorinator	40	34	2434
12	Mahanga	Beguniapada	PW-1	1	260000	NO	NO	GI	PVC	11553	7.5 HP Submerssible		75	40	5975
13	Mahanga	Gotara	PW-2	2	173000	NO	NO	GI	PVC	16870	10, 7.5 HP Submerssible	Electro Chlorinator	15	68	3992
14	Mahanga	Haladia	PW-1	1	101000	NO	NO	GI	PVC	6450	7.5 HP Submerssible		25	45	2326
15	Mahanga	Laxminarayanpur	PW-1	1	94000	NO	NO	GI	PVC	2049	6 HP Submerssible		nill	20	2160
16	Mahanga	Jaleswarpur	PW-2	2	100000	NO	40000liter	GI	PVC	6965	6 & 7.5 HP Submerssible	Electro Chlorinator	85	45	2306
17	Mahanga	Allijoda	PW-1	1	62000	NO	40000liter	GI	PVC	7750	7.5 HP Submerssible		34	63	1025
18	Mahanga	Mallipura	PW-1	1	62000	NO	NO	GI	PVC	2150	7.5 HP Submerssible		nill	20	1429
19	Mahanga	Kaitha	PW-1	1	109000	NO	NO	GI	PVC	5630	7.5 HP Submerssible		55	44	2500

20	Mahanga	Koliatha	PW-2	2	14700 0	NO	NO	GI	PV C	4300	7.5 HP=2 Submerssible	Dozer Chlorinat or	200	30	3389
21	Mahanga	Kuhunda	PW-1,IW- 1	2	12100 0	NO	NO	GI	PV C	1056 0	6.5 & 7.5 HP Submerssible		150	30	2787
22	Mahanga	Kundi	PW-1.IW- 1	2	15100 0	NO	NO	GI	PV C	1160 0	10&15 HP Submerssible		56	70	3472
23	Mahanga	Kusupur	PW-2.IW- 1	3	20200 0	NO	40000lit r	GI	PV C	9188	10=2nos 7.5=1no HP Submerssible	Dozer Chlorinat or	140	35	4651
24	Mahanga	Kurjanga	PW-1	1	10100 0	NO	40000lit r	GI	PV C	1087 0	7.5 HP Submerssible	Electro Chlorinat or	2	18	2328
25	Mahanga	Manitri	PW-1	1	62000	NO	NO	GI	PV C	6900	7.5 HP Submerssible		0	26	1433
26	Mahanga	Lalitgiri	PW-1.IW- 2,UGR-1	4	12500 0	NO	NO	GI	PV C	5356	12.5=2,10=1,7. 5=1 HP Submerssible		65	20	2888
27	Mahanga	Madhupur	IW-1	1	10200 0	NO	NO	GI	PV C	7275	7.5 HP Submerssible		39	46	2345
28	Mahanga	Mahanga	PW-2	2	17200 0	NO	NO	GI	PV C	9870	10 & 7.5 HP Submerssible	Dozer Chlorinat or	200	30	3954

29	Mahanga	Mouda	PW-2	2	15000 0	NO	40000lit r	GI	PV C	1257 5	7.5 HP Submerssible	Electro Chlorinat or	100	50	3442
30	Mahanga	Sipura	PW-2.IW- 2	4	30800 0	NO	NO	GI	PV C	1177 0	7.5 HP=4nos Submerssible		531	136	7103
31	Mahanga	Gaoudgopa	PW-1	1	13900 0	NO	NO	GI	PV C	9220	7.5 HP Submerssible		12	55	3200
32	Mahanga	Nahanga	PW-1	1	13700 0	NO	NO	GI	PV C	1286 5	10 HP Submerssible		150	50	3145
33	Mahanga	Nurtanga	PW-1	1	62000	NO	40000lit r	GI	PV C	1158 5	7.5 HP Submerssible	Electro Chlorinat or	49	50	944
34	Mahanga	osanga	PW-1	1	91000	NO	NO	GI	PV C	1247 0	7.5 HP Submerssible	Dozer Chlorinat or	150	60	2094
35	Mahanga	Kusunpur	PW-2	2	62000	NO	NO	GI	PV C	2825	7.5 & 5 HP Submerssible		46	25	1064
36	Mahanga	Paikarapur 5Yr Maintenance included	PW- 2,OW-1	3	21100 0	NO	100000 litr	GI	PV C	9525	7.5 &10 HP Submerssible	Dozer Chlorinat or	598	1	2780
37	Mahanga	Gopalpur Sukleswar	PW-2	3	49200 0	NO	100000 litr	GI	PV C	1293 0	7.5 HP=3nos Submerssible	Electro Chlorinat or	45	115	11344

38	Mahanga	Podamarei	PW-1	2	15000 0	NO	NO	GI	PV C	1003 0	7.5 HP=2nos Submerssible		30	110	3457
39	Mahanga	Alliara	PW-1	1	62000	NO	NO	GI	PV C	4200	7.5 HP Submerssible		39	39	1319
40	Mahanga	Rahania	PW-2	2	17500 0	NO	100000 litr	GI	PV C	8540	10 HP Submerssible		45	60	4031
41	Mahanga	Samsarpur	PW-1	1	75000	NO	NO	GI	PV C	6853	6HP Submerssible		26	42	1715
42	Mahanga	Jasarajpur	PW-2,IW- 1	3	76000	NO	NO	GI	PV C	7125	7.5 HP=2nos Submerssible		12	38	1736
43	Mahanga	Malihata	PW-1	1	62000	NO	NO	GI	PV C	6070	7.5 HP Submerssible		25	36	1262
44	Mahanga	Kuanpal	PW-2	2	11900 0	NO	NO	GI	PV C	1341 6	7.5 HP=2nos Submerssible		50	26	2736
45	Mahanga	Ostapur	PW-1	1	11700 0	NO	40000lit r	GI	PV C	1105 0	7.5 HP Submerssible		30	40	2682
46	Mahanga	Umar 5Yr Maintenance included	PW-2	2	33200 0	NO	100000 & 70000 litr	GI	PV C	1038 6	7.5 & 10 HP Submerssible	Dozer Chlorinat or-2nos	900	2	4374

		TOTAL		75											1948	134018
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Format for details of existing water supply schemes for Niali																
Sl. No.	Block	Name of Scheme	Type of Source	Number of Sources	Quantity of water supplied (per day) in Ltr	UGR Capacity (Yes/No)	OHT Capacity (Yes/No)	Rising Main Category	Type of Pipe	Length of pipeline in mtr	Type of Pump	Type of Treatment	No. of HH connections	No. of Stand posts	Population (2011)	
1	NIAL I	ANLO-I	Production Well	1	97000	-	-	M.S	PVC	8503	7.5 HP SUBMERSIBLE PUMP	-	-	17	3216	
2	NIAL I	ANLO-II	P.WELL	1	43000	-	-	M.S	PVC	2802	3 HP SUBMERSIBLE PUMP	-	-	10	775	
3	NIAL I	KANTAPADASASANA	P.WELL	1	43000	-	-	M.S	PVC	2908	3 HP SUBMERSIBLE PUMP	-	-	12	1605	
4	NIAL I	KAPILESWARPUR	P.WELL	1	43000	-	-	M.S	PVC	2305	3 HP SUBMERSIBLE PUMP	-	-	7	324	

5	NIAL I	MAHANGAPADA	P.WELL	1	76000	-	-	M.S	PVC	2609	5 HP SUBMERSIB LE PUMP	-	-	22	1864
6	NIAL I	ATHANGA	P.WELL	1	97000	-	-	M.S	PVC	6757	7.5 HP SUBMERSIB LE PUMP	-	55	25	3336
7	NIAL I	BAHARANA	P.WELL	1	43000	-	-	M.S	PVC	1707	3 HP SUBMERSIB LE PUMP	-	-	8	1352
8	NIAL I	BAHARANA BEHERA SAHI	P.WELL	1	43000	-	-	M.S	PVC	2410	3 HP SUBMERSIB LE PUMP	-	-	10	1500
9	NIAL I	BAGALAGARH	P.WELL	1	43000	-	-	M.S	PVC	2472	3 HP SUBMERSIB LE PUMP	-	-	10	904
10	NIAL I	BARIMUNDEI	P.WELL	1	76000	-	-	MS	PVC	3552	5 HP SUBMERSIB LE PUMP	-	6	12	1288
11	NIAL I	BINISHPUR	P.WELL	1	43000	-	-	MS	PVC	2905	3 HP SUBMERSIB LE PUMP	-	12	2	3722
12	NIAL I	BILASUNI	P.WELL	1	76000	-	-	MS	PVC	5300	5 HP SUBMERSIB LE PUMP	-	18	20	2911

13	NIAL I	ERANCH	P.WELL	3	237000	-	-	MS	PVC	12750	12.5 HP, 3 HP & 3 HP SUBMERSIB LE PUMP	-	82	52	5861
14	NIAL I	MAGURAKUDA	P.WELL	1	43000	-	-	MS	PVC	2612	3 HP SUBMERSIB LE PUMP	-	5	7	449
15	NIAL I	PALASUDHA	P.WELL	1	76000	-	-	MS	PVC	3308	5 HP SUBMERSIB LE PUMP	-	7	15	465 (TFC DEPOSIT)
16	NIAL I	NATI	P.WELL	1	43000	-	-	MS	PVC	2219	3 HP SUBMERSIB LE PUMP	-	-	8	942
17	NIAL I	KALAKHA	P.WELL	1	76000	-	-	MS	PVC	4212	5 HP SUBMERSIB LE PUMP	-	6	15	700 (TFC DEPOSIT)
18	NIAL I	JALLARPUR	P.WELL	1	97000	-	50000	MS	PVC	3899	5 HP SUBMERSIB LE PUMP	-	45	29	2507
19	NIAL I	SOLAMANGA	P.WELL	1	43000	-	-	MS	PVC	1712	3 HP SUBMERSIB LE PUMP	-	-	7	115
20	NIAL I	LUNIGAN	P.WELL	1	97000	-	-	MS	PVC	4582	7.5 HP SUBMERSIB LE PUMP	-	16	25	1121

21	NIAL I	SAHANAJPUR	P.WELL	1	76000	-	-	MS	PVC	3705	5 HP SUBMERSIB LE PUMP	-	5	15	816
22	NIAL I	KAPASI	P.WELL	1	97000	-	-	MS	PVC	4020	7.5 HP SUBMERSIB LE PUMP	-	7	25	1379
23	NIAL I	PODANA	P.WELL	2	152000	-	40000	MS	PVC	6221	5HP & 5 HP SUBMERSIB LE PUMP	-	12	30	2564
24	NIAL I	KASARDA	P.WELL	2	194000	-	-	MS	PVC	14360	10 HP & 3 HP SUBMERSIB LE PUMP	-	87	40	2881
25	NIAL I	PITAPADA	P.WELL	1	97000	-	-	MS	PVC	3250	7.5HP SUBMERSIB LE PUMP	-	-	20	2408
26	NIAL I	NACHHIGAN	P.WELL	1	76000	-	-	ms	pvc	6350	5 HP SUBMERSIB LE PUMP	-	4	20	1729
27	NIAL I	MADHAB	P.WELL	2	140000	-	50000	ms	pvc	6870	7.5HP & 3 HP HP SUBMERSIB LE PUMP	-	58	35	5564

28	NIAL I	NIALI	P.WELL	2	173000	-	50000	ms	pvc	7337	7.5HP & 5 HP HP SUBMERSIB LE PUMP	-	48	28	7155
29	NIAL I	NIVARANA	P.WELL	1	76000	-	-	MS	PVC	3884	5 HP SUBMERSIB LE PUMP	-	-	13	1446
30	NIAL I	NUAGAN	P.WELL	1	97000	-	100000	MS	PVC	7581	7.5HP SUBMERSIB LE PUMP	-	27	25	4732
31	NIAL I	PAHANGA	P.WELL	1	151000	-	100000	MS	PVC	10240	12.5HP SUBMERSIB LE PUMP	-	14	36	3165
32	NIAL I	POKHARIGAN	P.WELL	1	76000	-	-	MS	PVC	9289	5 HP SUBMERSIB LE PUMP	-	5	24	2587
33	NIAL I	ALATALANGA	P.WELL	2	173000	-	-	MS	PVC	-	7.5 HP & 5 HP SUBMERSIB LE PUMP	-	129	30	3215
34	NIAL I	BARISHANA	P.WELL	1	97000	-	-	MS	PVC	9706	7.5HP SUBMERSIB LE PUMP	-	18	25	3296
35	NIAL I	JAHANGIRPUR	P.WELL	1	76000	-	40000	MS	PVC	3194	5 HP SUBMERSIB LE PUMP	-	22	18	1488

36	NIAL I	RATANPUR	P.WELL	1	97000	-	-	MS	PVC	10320	7.5 HP SUBMERSIB LE PUMP	-	8	20	2895
37	NIAL I	SAGADAILO	P.WELL	1	76000	-	-	MS	PVC	6500	5 HP SUBMERSIB LE PUMP	-	5	20	2636
38	NIAL I	DIGHI	P.WELL	1	76000	-	-	MS	PVC	3315	5 HP SUBMERSIB LE PUMP	-	12	18	1311 (TFC DEPOSIT)
39	NIAL I	SUANLO	P.WELL	1	76000	-	-	MS	PVC	6740	5 HP SUBMERSIB LE PUMP	-	15	-	2700
40	NIAL I	SITHALO	P.WELL	3	227000	-	100000	MS	PVC	17340	12.5HP & 12.5 & 5 HP SUBMERSIB LE PUMP	-	112	59	5682
41	NIAL I	SASANAPADA	P.WELL	2	140000	-	-	MS	PVC	7889	7.5 HP & 3 HP SUBMERSIB LE PUMP	-	59	22	3087
42	NIAL I	TIHUDI	P.WELL	1	76000	-	-	MS	PVC	7665	5 HP SUBMERSIB LE PUMP	-	-	15	1890
43	NIAL I	KANTISALA	P.WELL	1	76000	-	-	MS	PVC	5300	5HP SUBMERSIB LE PUMP	-	10	10	3449

44	NIAL I	SADHANSA	P.WELL	1	76000	-	-	MS	PVC	5208	5HP SUBMERSIBLE PUMP	-	5	15	1735
45	NIAL I	KARANGA(5 YEAR MAINTATINANCE INCLUDED)	P.WELL	1	151000	-	70000	MS	PVC	6050	10 HP SUBMERSIBLE PUMP	Dosing pump	282	6	2183 (5 year maintainance by contractor)

FORMAT FOR DETAILS OF EXISTING WATER SUPPLY SCHEMES
Block :- Nischintakoili

SI No	Name of Scheme	Type of Source	Number of Source	Quantity of water supplied (per day) in Ltr	UGR Capacity (Yes/No)	OHT Capacity (Yes/No)	Rising Main Catagory	Type of Pipe	Length of pipeline in Mtr	Type of Pump	Type of Treatment	No of HH Connection	No of Standposts	Population (2011)
1	RPWS to Nischintakoili	production well	2	129000 Ltr	-	1 Lakh Ltr	G.I Pipe	160m-OD-PVC 110m-OD-PVC 90MM-OD-PVC 63MM-OD-	2330 1244 1810 3355	7.5 HP Submersible	Electrochlorinator	30 Nos	52	2967

								PVC						
2	RPWS to Sarapada	production well	2	143000 Ltr	-		G.I Pipe	160m m-OD-PVC 110m m-OD-PVC 90MM-OD-PVC	1200 3200 3000	7.5 HP Submersible (2 Nos)		10 Nos	47	3288
3	RPWS to Nemalopur	production well	1	151000 Ltr	-	40,000 Ltr	G.I Pipe	160m m-OD-PVC 110m m-OD-PVC 90MM-OD-PVC 63MM-OD-PVC	240 3250 3100 2836	7.5 HP Submersible	Electrochlorinator	108 Nos	62	3186
4	RPWS to Lendurabhagapur	production well	1	91000 Ltr	-		G.I Pipe	160m m-OD-PVC 110m m-OD-PVC	1000 4050 2600	5 HP Submersible			20	2096

								90MM -OD- PVC						
5	RPWS to Nagaspur	production well	1	100000 Ltr	-	1 Lakh Ltr	G.I Pipe	160m m-OD- PVC 110m m - OD- PVC 90MM -OD- PVC	800 1500 120	7.5 HP Submersible		13Nos	30	2316
6	RPWS to Buhalpur	production well	1	53000 Ltr	-	20,000 Ltr	G.I Pipe	160m m-OD- PVC 110m m - OD- PVC 90MM -OD- PVC	900 800 1070	5 HP Submersible		11Nos	31	1213
7	RPWS to Orti	production well	1	65000 Ltr	-		G.I Pipe	160m m-OD- PVC 110m m - OD- PVC 90MM -OD- PVC 63MM-	1700 2500 2300 800	7.5 HP Submersible		31Nos	40	1504

								OD-PVC						
8	RPWS to Asureswar	production well	1	76000 Ltr	-		G.I Pipe	160m m-OD-PVC 110m m-OD-PVC 90MM-OD-PVC 63MM-OD-PVC	1050 1900 800 1800	6 HP Submersible		32Nos	25	1752
9	RPWS to Kulagaonissalo	production well	1	154000 Ltr	-		G.I Pipe	160m m-OD-PVC 110m m-OD-PVC 90MM-OD-PVC 63MM-OD-PVC	1580 2110 2150 1480	7.5 HP Submersible		50Nos	27	3552

10	RPWS to Katikata	production well	2	51000 Ltr	-		G.I Pipe	160m m-OD- PVC 110m m - OD- PVC 90MM -OD- PVC	200 2040 4100	6 HP Submersi ble 7.5 HP Submersi ble		14Nos	31	1174
11	RPWS to Kentalo	production well	1	189000 Ltr	-		G.I Pipe	160m m-OD- PVC 110m m - OD- PVC 90MM -OD- PVC	1500 1900 3000	6 HP Submersi ble		9Nos	28	4350
12	RPWS to Sukerpada	production well	1	160000 Ltr	-		G.I Pipe	160m m-OD- PVC 110m m - OD- PVC 90MM -OD- PVC	100 2330 6630	7.5 HP Submersi ble		15Nos	53	3682
13	RPWS to Mohhmadpur	production well	1	172000 Ltr	-		G.I Pipe	160m m-OD- PVC 110m m -	1600 3400 7600	7.5 HP Submersi ble		10Nos	53	3974

								OD- PVC 90MM -OD- PVC						
14	RPWS to Kalarabank	producti on well	1	129000 Ltr	-	40,000 Ltr	G.I Pipe	160m m-OD- PVC 110m m - OD- PVC 90MM -OD- PVC	1000 2000 5950	6 HP Submersi ble		59Nos	36	2966
15	RPWS to Malikpur	producti on well	1	99000 Ltr	-		G.I Pipe	160m m-OD- PVC 110m m - OD- PVC 90MM -OD- PVC 63MM- OD- PVC	1000 1000 2600 2000	7.5 HP Submersi ble		-	39	2275
16	RPWS to Katarpada	producti on well	2	85000 Ltr	-		G.I Pipe	160m m-OD- PVC 110m m - OD- PVC	1800 2420 6250	7.5 HP Submersi ble 7.5 HP Submersi ble		26Nos	67	1970

								90MM -OD- PVC						
17	RPWS to Kerilo	producti on well	1	123000 Ltr	-		G.I Pipe	160m m-OD- PVC 110m m - OD- PVC 90MM -OD- PVC	1100 2700 5200	7.5 HP Submersi ble		13Nos	40	2836
18	RPWS to Utterkul	producti on well	1	143000 Ltr	-		G.I Pipe	160m m-OD- PVC 110m m - OD- PVC 90MM -OD- PVC	971 2218 1557	6 HP Submersi ble		9Nos	35	3291
19	RPWS to Buhalo	producti on well	1	138000 Ltr	-	1 Lakh Ltr	G.I Pipe	160m m-OD- PVC 110m m - OD- PVC 90MM -OD- PVC	800 1500 4000 37	7.5 HP Submersi ble		11Nos	30	3185

								PVC 63MM- OD- PVC						
20	RPWS to Baliapada	producti on well	1	155000 Ltr	-		G.I Pipe	160m m-OD- PVC 110m m - OD- PVC 90MM -OD- PVC	1000 1200 5700	7.5 HP Submersi ble		24Nos	35	3578
21	RPWS to Babujanga	producti on well	1	181000 Ltr	-		G.I Pipe	160m m-OD- PVC 110m m - OD- PVC 90MM -OD- PVC	3000 3400 4560	7.5 HP Submersi ble		8Nos	38	4172
22	RPWS to Santpur	producti on well	1	102000 Ltr	-	40,000 Ltr	G.I Pipe	160m m-OD- PVC 110m m - OD- PVC 90MM -OD- PVC	1250 1650 3060	7.5 HP Submersi ble		14Nos	32	2351

23	RPWS to Kolanpur	production well	1	139000 Ltr	-		G.I Pipe	160m m-OD-PVC 110m m-OD-PVC 90MM -OD-PVC	1150 1850 3950	7.5 HP Submersible		23Nos	35	3202
24	RPWS to Tilakana	production well	1	103000 Ltr	-		G.I Pipe	160m m-OD-PVC 110m m-OD-PVC 90MM -OD-PVC	1700 3800 3800	7.5 HP Submersible		10Nos	32	2367
25	RPWS to Bandhupur	production well	1	103000 Ltr	-		G.I Pipe	160m m-OD-PVC 110m m-OD-PVC 90MM -OD-PVC	1100 1850 3250	7.5 HP Submersible		12Nos	35	2353
26	RPWS to Kendupatna	production well	1	171000 Ltr	-		G.I Pipe	160m m-OD-PVC 110m m-	1650 2200 3800	12 HP Submersible		28Nos	52	3940

								OD- PVC 90MM -OD- PVC						
27	RPWS to Isanibramhpur	producti on well	1	90000 Ltr	-		G.I Pipe	160m m-OD- PVC 110m m - OD- PVC 90MM -OD- PVC	1500 2800 4800	7.5 HP Submersi ble		20	2011	
28	RPWS to Fogal	producti on well	2	178000 Ltr	-		G.I Pipe	160m m-OD- PVC 110m m - OD- PVC 90MM -OD- PVC	1746 2850 4000	5 HP Submersi ble 7.5 HP Submersi ble	32Nos	65	4179	
29	RPWS to Jairampur	producti on well	1	174000 Ltr	-		G.I Pipe	160m m-OD- PVC 110m m - OD- PVC 90MM -OD- PVC	1150 1450 3400	10 HP Submersi ble	35Nos	45	4022	

30	RPWS to Natakai	production well	1	149000 Ltr	-		G.I Pipe	160m m-OD-PVC 110m m-OD-PVC 90MM -OD-PVC	1400 3800 4000	10 HP Submersible		16Nos	44	3437
31	RPWS to Taratsasan	production well	1	91000 Ltr	-		G.I Pipe	160m m-OD-PVC 110m m-OD-PVC 90MM -OD-PVC	110 1240 4000	7.5 HP Submersible			30	2105
32	RPWS to Daudpur	production well	1	143000 Ltr	-		G.I Pipe	160m m-OD-PVC 110m m-OD-PVC 90MM -OD-PVC	1800 2598 5148	7.5 HP Submersible			48	3299
33	RPWS to Palda	production well	1	133000 Ltr	-		G.I Pipe	160m m-OD-PVC 110m m-	1250 2300 3150	6 HP Submersible		20Nos	20	2615

								OD- PVC 90MM -OD- PVC						
34	RPWS to Jignipur	producti on well	1	117000 Ltr	-	40,000 Ltr	G.I Pipe	160m m-OD- PVC 110m m - OD- PVC 90MM -OD- PVC	1090 2560 2900	7.5 HP Submersi ble		14Nos	20	2698
35	RPWS to Jamara	producti on well	1	115000 Ltr	-		G.I Pipe	160m m-OD- PVC 110m m - OD- PVC 90MM -OD- PVC	1500 2700 4750	10 HP Submersi ble		11Nos	30	2647
36	RPWS to Janardanpur	producti on well	1	123000 Ltr	-		G.I Pipe	160m m-OD- PVC 110m m - OD- PVC 90MM -OD- PVC	1450 1800 3500	6 HP Submersi ble		13Nos	30	2829

37	RPWS to Manijanga	production well	1	114000 Ltr	-		G.I Pipe	160m m-OD-PVC 110m m-OD-PVC 90MM -OD-PVC	1250 1850 2200	7.5 HP Submersible		18Nos	35	2623
38	RPWS to Patapur	production well	1	88000 Ltr	-		G.I Pipe	160m m-OD-PVC 110m m-OD-PVC 90MM -OD-PVC	1200 3200 3000	7.5 HP Submersible		8Nos	47	2036
39	RPWS to Manapur	production well	1	306000 Ltr	-	1 Lakh Ltr	G.I Pipe	160m m-OD-PVC 110m m-OD-PVC 90MM -OD-PVC	2232 2076 2604	7.5 HP Submersible	Dosing Pump	344Nos	Standalone =6 Nos	4040

INFORMATION ON COMMISSIONED PWS SCHEMES FOR OPERATION AND MAINTAINANCE UNDER CUTTACK SADAR BLOCK															
SL NO	BLOCK	NAME OF SCHEME	TYPE OF SOURCE	NO OF SOURCE	QTY OF WATER SUPPLIED(per day)in ltr	CAPACITY(YES/NO)	OHT CAPACITY (yes/no) in ltr	RISING MAIN CATEGORY	TYPE OF PIPE	LENGTH OF PIPE LINE IN MTR	TYPE OF PUMP	TYPE OF TREATMENT	NO OF HOUSE CONNECTION	NO OF STAND POST	POPU AS PER 2011
1	CUTTACK SADAR	PWS TO BENTAKAR	P.W	1	97,200	NO	NO	MS PIPE	PVC	4880	7.5 HP VERTICAL SUBMERSIBLE	Electro Chlorinator	62	29	2595
2	CUTTACK SADAR	PWS TO BARAL	P.W	1	1,00,800	NO	NO	MS PIPE	PVC	7235	7.5 HP VERTICAL SUBMERSIBLE	Bleasing dosing pump	26	36	2954
3	CUTTACK SADAR	PWS TO KALAPADA	P.W	1	75600	NO	1,00,000	MS PIPE	PVC	5040	5 HP VERTICAL SUBMERSIBLE	Bleasing dosing pump	32	42	2033
		PWS TO KULAKALAPADA	P.W	1	97,200	NO	NO	MSPICE	PVC/HDPPE	1654	5HP VERTICAL SUBMERSIBLE	-	38	10	750
4	CUTTACK SADAR	PWS TO BODHAPUR	P.W	1	98200	NO	NO	MS PIPE	PVC	4365	7.5 HP VERTICAL SUBMERSIBLE	-	12	36	2059
5	CUTTACK SADAR	PWS TO KISHORENAGAR	P.W	2	421200	NO	1,00,000	MSPICE	PVC	25669	25 HP VERTICAL SUBMERSIBLE	-	302	150	8415
6	CUTTACK	PWS TO AYATPUR	P.W	2	86400	NO	NO	MSPICE	PVC	5635	6 HP VERTICAL	-	72	30	3593

	SADAR										SUBMERSIBLE				
7	CUTTACK SADAR	PWS TO KULASARICHUAN	P.W	5	248400	NO	1,50,000	MSPICE	PVC	15561	15 HP VERTICAL SUBMERSIBLE	-	82	42	5113
8	CUTTACK SADAR	PWS TO ARAD	P.W	2	2,33,600	NO	NO	MSPICE	PVC	9701	15 HP VERTICAL SUBMERSIBLE	-	132	54	3979
9	CUTTACK SADAR	PWS TO NACHHIPUR	P.W	1	81,000	NO	NO	MSPICE	PVC	4936	5 HP VERTICAL SUBMERSIBLE	-	45	32	2174
10	CUTTACK SADAR	PWS TO ROUTARAPUR	P.W	1	1,00,620	NO	NO	MSPICE	PVC	6550	7.5 HP VERTICAL SUBMERSIBLE	Bleasing dosing pump	26	43	1832
11	CUTTACK SADAR	PWS TO URALI	P.W	1	1,62,000	NO	NO	MSPICE	PVC	5736	10 HP VERTICAL SUBMERSIBLE	-	82	42	3549
		AUG TO JARIPADA	P.W	1	97,200	NO	NO	MSPICE	PVC/HDPE	2202	5HP VERTICAL SUBMERSIBLE	-	10	12	1109
12	CUTTACK SADAR	PWS TO PRAHARAJPUR	P.W	2	88,560	NO	NO	MSPICE	PVC	11058	6 HP VERTICAL SUBMERSIBLE	-	90	52	6287
13	CUTTACK SADAR	PWS TO FAKIRAPADA	P.W	1	94,200	NO	NO	MSPICE	PVC	7590	7.5 HP VERTICAL SUBMERSIBLE	Electro Chlorinator	62	32	3014

14	CUTTACK SADAR	PWS TO AMAN	P.W	2	95,040	NO	NO	MSPICE	PVC	6360	7.5 HP VERTICAL SUBMERSIBLE	Bleasing dosing pump	51	42	2581
15	CUTTACK SADAR	PWS TO SAKHATRASH	P.W	1	1,08,000	NO	NO	MSPICE	PVC	3600	7.5 HP VERTICAL SUBMERSIBLE	Bleasing dosing pump	48	26	510
16	CUTTACK SADAR	PWS TO DHARINA	P.W	3	100800	NO	NO	MSPICE	PVC	5096	6 HP VERTICAL SUBMERSIBLE	-	282	14	4446
17	CUTTACK SADAR	PWS TO SOMEPUR	P.W	2	1,03,680	NO	NO	MSPICE	PVC	11620	7.5 HP VERTICAL SUBMERSIBLE	-	28	30	3386
18	CUTTACK SADAR	PWS TO BARDA	P.W	2	99,360	NO	NO	MSPICE	PVC	15018	7.5 HP VERTICAL SUBMERSIBLE	-	74	34	3161
19	CUTTACK SADAR	PWS TO BAMBURI	P.W	1	86400	NO	NO	MSPICE	PVC	7413	6 HP VERTICAL SUBMERSIBLE	-	58	20	2597
20	CUTTACK SADAR	PWS TO JHINKIRIA	P.W	1	159840	NO	NO	MSPICE	PVC	6450	10 HP VERTICAL SUBMERSIBLE	Electro Chlorinator	72	20	2563
		PWS TO BERHAMPUR	P.W	1	97,200	NO	NO	MSPICE	PVC/HDPE	2865	5HP VERTICAL SUBMERSIBLE	-	12	10	2803

21	CUTTACK SADAR	PWS TO BIRIBATI	P.W	1	73,400	NO	20000	MSPICE	PVC	3648	5 HP VERTICAL SUBMERSIBLE	Electro Chlorinator	68	26	988
22	CUTTACK SADAR	PWS TO JASAPADA	P.W	2	1,08,000	NO	50000	MSPICE	PVC	6786	7.5 HP VERTICAL SUBMERSIBLE	-	132	24	3834
23	CUTTACK SADAR	PWS TO NIMEISAPUR	P.W	1	1,05,800	NO	NO	MSPICE	PVC	5835	7.5 HP VERTICAL SUBMERSIBLE	Electro Chlorinator	28	22	3033
24	CUTTACK SADAR	PWS TO KANDARPUR	P.W	2	1,03,700	NO	NO	MSPICE	PVC	7448	7.5 HP VERTICAL SUBMERSIBLE	Electro Chlorinator	65	26	1820
25	CUTTACK SADAR	PWS TO GATIROUTPATNA	P.W	2	77,760	NO	NO	MSPICE	PVC	9556	5 HP VERTICAL SUBMERSIBLE	-	68	32	3670
26	CUTTACK SADAR	PWS TO PARAMAHANSA	P.W	2	1,02,600	NO	NO	MSPICE	PVC	5196	7.5 HP VERTICAL SUBMERSIBLE	Bleasing dosing pump	78	42	1991
27	CUTTACK SADAR	PWS TO SRIRAM	P.W	1	86400	NO	NO	MSPICE	PVC	3600	6 HP VERTICAL SUBMERSIBLE	-	48	26	2438
28	CUTTACK SADAR	PWS TO DEULI	P.W	1	75,600	NO	NO	MSPICE	PVC	4080	5 HP VERTICAL SUBMERSIBLE	-	42	18	1502

29	CUTTACK SADAR	PWS TO BASTAPADA	P.W	2	97,200	NO	NO	MSP IPE	PVC	5580	10.5 HP VERTICAL SUBMERSIB LE	-	35	32	133 6
30	CUTTACK SADAR	PWS TO KADAMPADA	P.W	1	86,400	NO	NO	MSP IPE	PVC	2590	6 HP VERTICAL SUBMERSIB LE	-	26	20	170 1
		AUG TO AITALANGA	P.W	1	97,200	NO	50,000	MSP IPE	PVC/HDP E	1700	5HP VERTICAL SUBMERSIB LE	-	123	1	897
31	CUTTACK SADAR	PWS TO DADHIBAMANPUR	P.W	1	75,600	NO	NO	MSP IPE	PVC	3720	5 HP VERTICAL SUBMERSIB LE	-	78	18	174 6
32	CUTTACK SADAR	PWS TO KOTUAN	P.W	1	75,600	NO	NO	MSP IPE	PVC	3940	5 HP VERTICAL SUBMERSIB LE	-	15	18	799
33	CUTTACK SADAR	PWS TO DAHIGAON	P.W	1	75,700	NO	40,000	MSP IPE	PVC	3705	5 HP VERTICAL SUBMERSIB LE	-	48	15	853
34	CUTTACK SADAR	PWS TO TAINKANA	P.W	2	75,600	NO	NO	MSP IPE	PVC	2860	5 HP VERTICAL SUBMERSIB LE	-	45	20	113 3
35	CUTTACK SADAR	PWS TO RAJAHANSA	P.W	1	97,200	NO	50,000	MSP IPE	PVC	4021	7.5 HP SUBMERSIB LE	-	64	15	186 2
36	CUTTACK SADAR	PWS TO BRAHMANABADA	P.W	1	97,200	NO	50,000	MSP IPE	PVC	4255	7.5 HP SUBMERSIB LE	-	38	18	198 0

37	CUTTACK SADAR	PWS TO RAMKUMARPUR	P.W	1	97,200	NO	50,000	MSPICE	PVC	2500	7.5 HP SUBMERSIBLE	-	45	10	954
38	CUTTACK SADAR	PWS TO ARILO (5 YEARS MAINTAINANCE INCLUDED)	P.W	2	1,62,000	NO	50,000	MSPICE	PVC	4032	10 HP SUBMERSIBLE	-	52	12	1082
39	CUTTACK SADAR	PWS TO NANPUR PAIKANA	P.W	2	97,200	NO	50,000	MSPICE	PVC/HDPE	6747	7.5 HP SUBMERSIBLE	-	267	1	1747
42	CUTTACK SADAR	PWS TO SAINDDHA	P.W	1	97,200	NO	NO	MSPICE	PVC	4730	7.5HP VERTICAL SUBMERSIBLE	-	40	18	2115

PIPED WATER SUPPLY INFORMATION OF SALIPUR BLOCK FOR OM PWS.

Sl No	Block	Name Of Scheme	Type Of Source	Number Of Sources	Qty.of water supplied (per day) in Ltr	UGR Capacity(Yes/No)	OHT Capacity(Yes/No)	Rising Main Category	Type of Pipe	Length of pipeline in mtr	Type of Pump	Type of Treatment	No of HH Connection	No of Stand posts	Population (2011)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	Salipur	Salipur-I	P.W	1	131251 Ltr	-	-	GI	PVC	2544 Mtr	7.5 HP	Bleaching Chlorinator		10 Nos	3027

2	Salipur	Salipur-II	P.W	1	86980Ltr	-	Yes(70000 Ltr)	GI	PV C	6900 Mtr	10 HP	-	40 Nos	20 Nos	2006
3	Salipur	Betai	P.W	1	32693 Ltr	-	-	GI	PV C			Bleaching Chlorinator			754
4	Salipur	Pikola	P.W	2	138449 Ltr	-	-	GI	PV C	7800 Mtr	5.00 HP	-		20 Nos	3193
5	Salipur	Raisungura	P.W	1	179077 Ltr	-	Yes(50000 Ltr)	GI	PV C	9440 Mtr	7.5 HP	-	56 Nos	34 Nos	4130
6	Salipur	Kanpur	P.W	1	121712 Ltr	-	-	GI	PV C	6954 Mtr	7.5 HP	-	32 Nos	22 Nos	2807
7	Salipur	Gangeswar	P.W	1	39718 Ltr	-	-	GI	PV C			-			916
8	Salipur	Dharmagatpur	P.W	1	54894 Ltr	-	-	GI	PV C	3070 Mtr	6.00 HP	-	30 Nos	15 Nos	1266
9	Salipur	Badabhimraipur	Intake well	1	171706 Ltr	Yes(20000 Ltr)	-	GI	PV C	8800 Mtr	10 HP	-		30 Nos	3960
10	Salipur	Mala Sasan	P.W	1	94395 Ltr	-	-	GI	PV C	6550 Mtr	7.5 HP	-	60 Nos	30 Nos	2177
11	Salipur	Elmapur	P.W	1	23111 Ltr	-	-	GI	PV C	4090 Mtr	3.00 HP	-		16 Nos	533
12	Salipur	Bhimdaspur	P.W	1	107143 Ltr	-	Yes(20000 Ltr)	GI	PV C	6190 Mtr	5.00 HP	Bleaching Chlorinator	58 Nos	20 Nos	2471
13	Salipur	Chanipur	P.W	1	116161 Ltr	-	-	GI	PV C	6096 Mtr	7.5 HP	-	32 Nos	25 Nos	2679
14	Salipur	Mohanapur	P.W	1	51121 Ltr	-	-	GI	PV C	5020 Mtr	7.5 HP	Bleaching Chlorinator		25 Nos	1179

15	Salipur	Katarpa	P.W	1	130557 Ltr	-	Yes(100000 Ltr)	GI	PVC	9850 Mtr	7.5 HP	-	15 Nos	28 Nos	3011
16	Salipur	Sisua	P.W	1	142177 Ltr	-	50000 Ltr	GI	PVC	6800 Mtr	7.5 HP	-		30 Nos	3279
17	Salipur	Naiguaoon	P.W	1	78221 Ltr	-	-	GI	PVC	4120 Mtr	7.5 HP	-	26 Nos	15 Nos	1804
18	Salipur	Satyabhampur	P.W	1	180508 Ltr	-	-	GI	PVC	9150 Mtr	7.5 HP	-	92 Nos	35 Nos	4163
19	Salipur	Pradhanpada	P.W	1	148551 Ltr	-	Yes(40000 Ltr)	GI	PVC	6205 Mtr	7.5 HP	Bleaching Chlorinator	85 Nos	28 Nos	3426
20	Salipur	Mahajanpur	P.W	1	118460 Ltr	-	Yes(100000 Ltr)	GI	PVC	3400 Mtr	7.50 HP	-	43 Nos	22 Nos	2732
21	Salipur	LaxmiNaryanpur	P.W	1	93788 Ltr	-	Yes(40000 Ltr)	GI	PVC	6400 Mtr	5.00 HP	Bleaching Chlorinator	27 Nos	20 Nos	2163
22	Salipur	Champati	P.W	1	87847 Ltr	-	-	GI	PVC	6806 Mtr	7.5 HP	-	120 Nos	25 Nos	2026
23	Salipur	Tentola	P.W	1	145603 Ltr	-	Yes(40000 Ltr)	GI	PVC	7698 Nos	7.5 HP	-	69 Nos	25 Nos	3358
24	Salipur	Sogal	P.W	1	130774 Ltr	-	-	GI	PVC	8650 Mtr	7.5 HP	-		30 Nos	3016
25	Salipur	Tarito	P.W	1	72324 Ltr	-	-	GI	PVC	6290 Mtr	7.5 HP	-	15 Nos	25 Nos	1668
26	Salipur	Odasingh	P.W	1	234057 Ltr	-	-	GI	PVC	7200 Mtr	7.5 HP	-		20 Nos	5398
27	Salipur	Bahugram	P.W	1	187098 Ltr	-	Yes(40000 Ltr)	GI	PVC	4500 Mtr	7.5 HP	-		23 Nos	4315

28	Salipur	Balisahi	P.W	1	185234 Ltr	-	-	GI	PVC	7600 Mtr	10.00 HP	-	41 Nos	25 Nos	4272
29	Salipur	Sudhukhanda	P.W	1	74883 Ltr	-	-	GI	PVC	7850 Mtr	7.5 HP	-	29 Nos	25 Nos	1727
30	Salipur	Bhatpada	P.W	1	98687 Ltr	-	-	GI	PVC	8800 Mtr	7.5 HP	-	33 Nos	30 Nos	2276
31	Salipur	Bhairpur	P.W	1	147988 Ltr	-	-	GI	PVC	7300 Mtr	10.00 HP	-		30Nos	3413
32	Salipur	Souri	P.W	1	79392 Ltr	-	Yes(70000 Ltr)	GI	PVC	5940 Mtr	7.5 HP	-	252 Nos		1831
33	Salipur	Mohan	P.W	1	138015 Ltr	-	-	GI	PVC	5800 Mtr	5.00 HP	-		18 Nos	3183
34	Salipur	Kukudanga	Intake well	1	14222 Ltr	-	-	GI	PVC	4950 m	7.5 HP	-			328
35	Salipur	Sidho	P.W	1	113473 Ltr	-	Yes(40000 Ltr)	GI	PVC	6710 Mtr	7.5 HP	-		20 Nos	2617
36	Salipur	Atoda	P.W	1	100248 Ltr	-	-	GI	PVC	5950 Mtr	7.5 HP	-	12 Nos	24 Nos	2312
37	Salipur	Ratilo	P.W	1	129343 Ltr	-	-	GI	PVC	7800 Mtr	7.5 HP	-	22 Nos	28 Nos	2983
38	Salipur	Ramkrishnapur	P.W	1	105885 Ltr	-	-	GI	PVC	4800 Mtr	7.5 HP	-	589 Nos		2442
39	Salipur	Patpur	P.W	1	83902 Ltr	-	-	GI	PVC	5660 Mtr	7.5 HP	-	180 Nos		1935
40	Salipur	Nandola	P.W	1	192952 Ltr	-	-	GI	PVC	7980	10 HP	-	19 Nos	24 Nos	4450
41	Salipur	Purunahata (5 years maintainance)	P.W	1	136000 Ltr					5200	7.5 HP				2063

42	Salipur	Barigola (5 years maintainance)	P.W	1	150000 Ltr						4500	7.5 HP		175	746
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Format for details of existing water supply schemes for Tangi CDR

Sl. No.	Block	Name of Scheme	Type of Source	Number of Sources	Quantity of water supplied (per day) in Ltr	UGR Capacity (Yes/No)	OHT Capacity (Yes/No)	Rising Main Category	Type of Pipe	Length of pipeline in mtr	Type of Pump	Type of Treatment	No. of HH connections	No. of Stand posts	Population (2011)
1	Tangi-Choudwar	Agrahat	O.W	1	1300000	No	No	PVC	PVC	160mm-1400m, 110mm-125m, 90mm-612m, 63mm-4403m	7.5Hp-2nos, 3Hp-1no	chlorinator	220	49	4814
2	Tangi-Choudwar	Alana	P.W	1	29000	No	No	PVC	PVC	90mm-540m, 63mm-2170m	3Hp-1no	chlorinator		10	732
3	Tangi-Choudwar	Alarpur	P.W	3	68000	No	40000	PVC	PVC	160mm-600m, 110mm-2100, 90mm-1500m	5Hp-2nos, 2Hp-1no		24	35	1700
4	Tangi-Choudwar	Amarabatipur	P.W	2	40000	No	No	PVC	PVC	110mm-710m, 63mm-2000m	3Hp-1no, 2Hp-1nos			13	1000
5	Tangi-Choudwar	Badachanchuo	P.W	1	72360	No	50000	PVC	PVC	160mm-900m, 110mm-900m, 90mm-900m	5Hp		7	27	1809

6	Tangi-Choudwar	Badapadagaon	P.W	2	139000	No	60000	PVC	PVC	160mm-230m, 110mm-309m, 90mm-1633m	5Hp-2nos	chlorinator	199	1	1988
7	Tangi-Choudwar	Badasamantarapur	O.W	1	124000	No	No	PVC	PVC	160mm-3700m, 110mm-2000m, 90mm-2395m	7.5Hp		57	53	3114
8	Tangi-Choudwar	Banipada & Bandalo	O.W	1	200000	No	No	PVC	PVC	160mm-2000m, 110mm-2580m, 90mm-1620m	7.5Hp		215	33	5000
9	Tangi-Choudwar	Barapada	P.W	2	41370	No	40000	PVC	PVC	110mm-601m, 90mm-1005m, 63mm-825m	2Hp	chlorinator	136	1	591
10	Tangi-Choudwar	Berhampur	P.W	2	130000	No	No	PVC	PVC	160mm-492m, 110mm-110m, 90mm-795m, 63mm-4152m	5Hp-2nos		107	30	3470
11	Tangi-Choudwar	Bhagatpur	P.W	1	25000	No	No	PVC	PVC	90mm-800m, 63mm-700m	3Hp			22	680
12	Tangi-Choudwar	Bhatimunda	P.W	3	262920	250000	No	PVC	PVC	160mm-2360m, 110mm-1120m, 90mm-475m, 63mm-400m	3Hp-3nos		162	35	6573
13	Tangi-Choudwar	Birol	P.W	2	110000	No	No	PVC	PVC	110mm-1720m, 90mm-3665m, 63mm-540m	3Hp-1no, 5Hp-1no		55	35	2836

14	Tangi-Choudwar	Brahmanbhoga	P.W	2	69320	No	No	PVC	PVC	110mm-2600m, 90mm-2000m	3Hp-2nos			32	1733
15	Tangi-Choudwar	Changudia	O.W	1	20000	No	30000	PVC	PVC	63mm-1500m	5Hp		80	0	500
16	Tangi-Choudwar	Govindpur	P.W	3	150000	160000	No	PVC	PVC	160mm-3075m, 110mm-3585m, 90mm-2700m, 63mm-702m	3Hp-3nos		23	52	3957
17	Tangi-Choudwar	Guali	P.W	2	45560	No	No	PVC	PVC	90mm-540m, 63mm-2269m	3Hp-1no, 2Hp-1nos			21	1139
18	Tangi-Choudwar	Harianta	P.W	1	50800	No	No	PVC	PVC	110mm-800m, 63mm-1750m	5Hp		13	20	1270
19	Tangi-Choudwar	Jajabhairabnuagaon	O.W	1	60000	No	No	PVC	PVC	110mm-1200m, 63mm-1100m	5Hp			10	1658
20	Tangi-Choudwar	Jaripada	P.W	2	111400	No	No	PVC	PVC	110mm-1880m, 90mm-2647m, 63mm-540m	5Hp-2nos		33	25	2785
21	Tangi-Choudwar	Kakhadi	P.W	3	170000	No	No	PVC	PVC	160mm-711m, 110mm-1418m, 90mm-4566m	7.5Hp-1no, 5Hp-1no, 3Hp-1no		103	55	4333
22	Tangi-Choudwar	Kamanga	P.W	1	24480	No	No	PVC	PVC	90mm-740m, 63mm-550m	3Hp			14	612

23	Tangi-Choudwar	Kanheipur	P.W	2	130000	No	No	PVC	PVC	160mm-1600m, 110mm-1500m, 90mm-2800m	5Hp-1no, 3Hp-1no			40	4009
24	Tangi-Choudwar	Kani	P.W	2	59500	No	Yes	PVC	PVC	110mm-827m, 90mm-2564m, 63mm-180m	3Hp-2nos		112		850
25	Tangi-Choudwar	Kanjia	P.W	1	17200	No	No	PVC	PVC	110mm-1645m, 90mm-1120m	3Hp			20	430
26	Tangi-Choudwar	Karanji	O.W	1	100000	No	No	PVC	PVC	160mm-3000m, 110mm-3500m, 90mm-4500m	7.5Hp		12	53	3077
27	Tangi-Choudwar	Kochilanuagaon	P.W	3	50000	30000	No	PVC	PVC	90mm-900m, 63mm-1600m	3Hp-1no, 2Hp-2nos		70	15	1378
28	Tangi-Choudwar	Madhapur	P.W	1	326000	No	No	PVC	PVC	90mm-540m, 63mm-1415m	3Hp	chlorinator		10	815
29	Tangi-Choudwar	Mahisalanda	P.W	3	78000	No	No	PVC	PVC	110mm-2220m, 90mm-800m, 63mm-2694m	2Hp-3nos	chlorinator		40	1950
30	Tangi-Choudwar	Mangarajpur	P.W	2	76200	No	50000	PVC	PVC	110mm-2980m, 63mm-2240m	5Hp-1no, 3Hp-1no	chlorinator	52	32	1905
31	Tangi-Choudwar	Nakhara	P.W	2	69120	No	50000	PVC	PVC	110mm-3500m, 90mm-2403m	5Hp-2nos			32	1728

32	Tangi-Choudwar	Napanga	P.W	2	58320	No	No	PVC	PVC	160mm-492m, 110mm-110m, 90mm-795m, 63mm-4152m	5Hp- 2nos		13	30	1458
33	Tangi-Choudwar	Nuapatna	P.W	4	200000	50000	No	PVC	PVC	160mm- 3990, 110mm- 1875m, 90mm-3350m	7.5Hp- 1no, 5Hp- 1no, 3Hp- 2no, 2Hp- 1no	chlorinator	104	48	6685
34	Tangi-Choudwar	Palasia	P.W	1	12440	No	No	PVC	PVC	63mm-900m	2Hp			7	311
35	Tangi-Choudwar	Safa & Garudagaon	P.W	3	170000	No	No	PVC	PVC	160mm- 2760, 110mm- 3210m, 90mm- 2550m, 63mm-1290m	5Hp- 2nos, 3Hp- 1no		68	54	5104
36	Tangi-Choudwar	Salagaon	P.W		100000	No	No	PVC	PVC	110mm- 2190m, 90mm- 1270m, 63m- 230m	3Hp- 1no, 5Hp- 1no		42	23	2584
37	Tangi-Choudwar	Sankarpur	P.W	2	80000	No	40000	PVC	PVC	160mm- 1860, 110mm- 1180m, 90mm- 1500m, 63mm-705m	5Hp- 1no, 2Hp- 1no			43	2500
38	Tangi-Choudwar	Sankarpur (Beguniasahi)	P.W	1	16000	No	No	PVC	PVC	63mm-200m	2Hp			2	400

39	Tangi-Choudwar	Sankarpur (Harijanasahi)	P.W	1	13440	No	No	PVC	PVC	63mm-200m	2Hp			2	336
40	Tangi-Choudwar	Tangi	P.W	6	160000	250000, 150000	100000	PVC	PVC	160mm-510m, 110mm-2145m, 90mm-680m, 63mm-2540m	5Hp-2nos, 3Hp-2nos, 7.5Hp-1no		188	35	7943
41	Tangi-Choudwar	Tulasipur	P.W	2	50000	No	No	PVC	PVC	160mm-1405m, 110mm-2215m, 90mm-1210m	3Hp			15	1798
42	Tangi-Choudwar	Uchhapada	P.W	2	27880	No	No	PVC	PVC	90mm-1030m, 63mm-1660m	3Hp		5	12	697