

## **Qualification Criteria applicable as per cost of work put to tender**

To qualify for award of the contract, each bidder in its name should have

- (i) Minimum average annual financial turnover (as certified by the Chartered Accountant) during the last three years, ending 31st March of the previous financial year, should not be less than 30% of the value of work. The turn over shall be updated to price level of the last financial year at the rate of 8% per year compounded yearly.
- (ii) Experience of having successfully completed or substantially completed similar works (ie. road/bridge/building works/airport runway/SMDA /IWRD works/) as applicable for that type of tender during the last seven years ending last day of month previous to the one in which bids are invited should be either of the following: -
  - (a) Three similar works each costing not less than 40% of the value of work
  - or
  - (b) Two similar works each costing not less than 50% of the value of work
  - or
  - (c) One similar work costing not less than 80% of the value of work

The amount of works shall be updated to price level of the last financial year at the rate of 8% per year compounded yearly.

iii) Joint venture (JV) are not allowed.

## **Special conditions of contract as per the requirement of the work.**

The work to be carried out under this contract shall consist of various items as generally described in Tender Documents. The rate quoted by contractor shall unless otherwise specified, shall include but not limited to the following.

1. Carrying out Survey and Soil Investigations as per requirement & Land Procurement along Revenue path for installation of Ranney wells and MBS and laying pipe line, nothing shall be paid extra for pathway or access land.
2. The contractor will arrange the land, no extra charges will paid by department, it is purely the responsibility of the contractor. In case the land is arranged by the SMDA the cost taken in the estimate for the procurement of land will be deducted from the agreement amount.
3. The contractor will maintain the DPC level of the Ranney Well as well as MBS at HFL. It is the responsibility of the contractor that he will arrange the HFL in the vicinity of Ranney Well from the irrigation department. No extra cost will be paid to the contractor.
4. Carrying out hydro geological study of the proposed site characterization of soil sample for particle size analysis i.e. D60, D30, d10, Cu, Cc & grain size distribution graph for various strata at every 3 M depth and carrying aquifer performance test by long duration pumping and qualifying of data for evaluation of transmissivity, co-efficient of permeability & radius of influence of the well indicating expected sustainable discharge

and hydraulic design. Aquifer Performance Pump Out test by drilling Main Bore wells and observation wells as per specifications.

5. Carrying out Design and construction of all components of the Ranny Well/Radial Collector Well and all civil components, as per required specifications under this contract as per tentative General Arrangement Drawings.
6. Carrying out Design, Supply, Installation, Testing and Commissioning of all Electrical, Mechanical, Instrumentation, SCADA works as per specifications.
7. Hydraulic & structural Design of each and every component of the Project will be carried by the contractor through reputed institute i.e. IIT Roorkee, IIT Delhi or Jamia Milia Islamia University. Design consultant to be appointed as per contract.
8. The contractor shall follow the latest applicable BIS, IRC & ASTM standard codes.
9. In case of any disagreement regarding the applicability of codes/ codal provisions, the decision of Chief Engineer SMDA shall be final and binding to all.
10. It will be the responsibility of the contractor to submit the Design Calculations and Drawings in the format required by the Proof checking authority. In case of the designs being done through software, the contractor will have to provide a licensed version of the same to the Proof checking authority. The design calculations shall cover all steps and all cases as required by the codes.
11. All safety measures, accident claims, damages, land for plant and machinery and site office, along with any kind of theft Necessary technical staff required, Police protection etc. shall be included.
12. All major components for design required to commence work shall be got approved within 4 months of issue of work order including purchase of land.
13. The bore logs/soil attach investigation report and survey provide is only for guidance. The contractor may do their own survey and investigation to ascertain the soil strata.

#### **Additional/Special conditions**

1. SMDA will not entertain any claim in regards to inaccuracy of data provided for bid purpose. The all-mandatory permissions shall be arranged by the contractor with respective authorities and any delay in process will be the responsibility of contractor.
2. SPECIAL MANDATORY CONDITONS FOR INSALLATION OF RANNEY WELL:
  - a) The Ranney well design shall be made by contractor prior to start work at site and vetted from IIT's and Vetting professor should have Ranney well design experience. The following parameters must be Considered during the design all proposed Ranny Well.
  - b) Long Duration Pump Test: Determination of Radius of Influence by Cooper Jacob Method or Boulton's Method and evaluation of Sustainable discharge with draw-down.
  - c) Hydrological Parameters: Evaluation Aquifer parameters e.g. Transmissivity, Hydraulic Conductivity and Storability.
  - d) As per CPHEEO or Akalanks manual for a dry period of 240 days.
  - e) Hydraulic Design Capacity of Ranney Well, Pumping Hours, Dry run periods, Discharge from Well (22 hrs. pumping). Design of Laterals, Depth of Well and Location of laterals.

- f) Geotechnical Investigation with grain size analysis, shear strength and entrance velocity at laterals.
  - g) RCC Structure Design of Well (6m radius) to counter skin friction and tilt and shift in accordance with IS 3119-2016 & IRC 78-2014.
  - h) Detail Design of Ranney Well including superstructure as per IS 875, 456, 3370 etc.
  - i) Design for verification execution of laterals using Geophysical technique and Geo RADAR and Structure stability against buckling load of more than 100 Tonne. Monitoring as per BIS standard and PWD specification.
  - j) Time schedule for submission of design:
  - k) Hydraulic design = within 30 days after procurement of land.
  - l) Structural design = within 30 days of the approval of the hydraulic design
  - m) Site supervision Criteria for Ranney Well:
  - n) Supervision for aquifer test, Geo technical Investigation
  - o) Supervision for RCC structure execution of Ranney Well and superstructure using Rebound Hammer, Ultrasonic Pulse Velocity and Bar Locator.
  - p) Monitoring of well sinking with guidance.
  - q) Monitoring of length of lateral pushing using Geo RADAR.
  - r) Monitoring of Water Level using Digital Piezo meter as well as radar level trans meter
  - s) Monitoring of water sampling and basis parameters like-pH, TDS and Hardness Electrical Conductivity Etc.
  - t) High Profile TDS meter.
  - u) Monitoring of water sample analysis of site as well as any University/NABL approved Lab
  - v) Minimum water discharge (10 MLD) conformity by the contractor
  - w) The sustainable water discharge from Ranney well should be at least 10 MLD and contractor has to ensure the production of 10 MLD water discharge at time of commissioning of projects, and will ensure it upto completion of O&M Period. In case of less discharge from 10 MLD the penalty will be imposed at the 2% per MLD of Ranney well cost including land cost. Further, in case failure of functionality/purpose at the time commission of Ranney well, maximum penalty will be upto 5% of Ranney well cost including land cost.
  - x) Scope of Work during the Operation and Maintenance (O&M) Period. The successful tender will be responsible for operation and maintenance of all the project components (Civil, mechanical and electrical) for 72 months including Defect Liability Period after receipt of Completion Certificate.
3. The performance audit of the Ranney well every year as per Performa for sustainable discharge and draw down.
  4. The contractor will carry out all necessary repairs of all civil, electrical and mechanical project components during the O&M period at no extra cost.
  5. The Contractor will continuously observe the quality parameters and if any variation from the potable water quality as identified by SMDA, he will immediately inform the EE of SMDA. 6. The electricity fuel charges for DG set will be paid by SMDA directly to the respective agency i.e. UHBVN & fuel supplier.

6. The contractor will be responsible for day-to-day cleaning of the pump house and other ancillary.
7. Qualifying Criteria Qualification for this work will be based on the entire following minimum criteria regarding their particular experience, financial position, personnel and equipment capabilities and other relevant information as demonstrated by the Applicant's responses in the forms attached. The qualifications, capacity and resources of lead member of any joint venture member as subcontractors will not be taken into account in determining the applicant's compliance with.
8. Similar work means: - Construction of at least one Ranney Well/Radial collector well including water supply line work, Boosting station and pump house.
9. Design Criteria (a) The General Arrangement Drawing shows the proposed arrangement of Ranney Well/Radial Collector Well with all necessary details. (b) No change will be allowed in the same unless required as per Site conditions and approved by Engineer in charge.
10. Design Codes Applicable (a) Latest codes published by Bureau of Indian Standards (BIS, IRC and ASTM standard) shall be applicable. Design Considerations (b) The final location of the Ranney Well/ Radial Collector well will depend on the success of the Aquifer performance test to ensure 10 MLD output capacity of the well. The location provided can be changed as per requirement.
11. IN CASE OF FAILURE OF THE ACQUIFER PERFORMANCE TEST, THE PROJECT AND TENDER WILL BE CANCELLED AND NO PAYMENT FOR ACQUIFER PERFORMANCE TEST WILL BE MADE. THE CONTRACTOR SHALL NOT BE ENTITLED TO ANY FURTHER CLAIM IN CASE OF SUCH AN EVENT.
12. Criteria for selection of Design Consultants  
Design of each and every component of the well will be carried by the contractor through a Design consultant of reputed firm and same will be vetted by IIT Delhi or Jamia Milia Islamia University and thereafter by SMDA.
13. 3-months successful trial run period with 6 years Defect-liability-cum-maintenance period (details attached).

**Notes:**

1. The above list is illustrative and may require modification as per the scope of the work.
2. Contractor shall submit details designs, drawings and estimate prepared on the basis of scope of work and specification laid down herein above and draw a realistic.
3. The contractor shall ensure the production of 10 MLD water at time of commissioning of project.
4. Land for Ranney wells be purchased by agency along Yamuna Plain within 500 mtrs. From Yamuna bank as per satisfaction of Engineer-In-Charge.
5. Agency have EPF and ESI Registration

**General conditions: -**

1. The work will be carried out strictly in accordance with the PWD book of specification 1990 edition, which will form a part and parcel of this contract agreement.

2. In this contract schedule of rate, only essential portion of item have been written but it will deem to cover the entire item as described fully in the Haryana schedule of rates 2023 edition.
3. The Engineer in Charge shall be entitled to order work against any item of work shown in this contract schedule of rates here in after called the schedule to any extent and without any limitation, what so ever, required in his opinion for the purpose of work is respective of the facts that the quantities are omitted altogether, thereof, if shown more or less than the work ordered to be carried out.
4. The rate of any item of work not provided in the Haryana schedule of rates 2023 but executed at site will be decided by the competent authority and the decision will be binding upon the contractor.
5. All the items in the contract schedule of rates are subject to the foot note & notes as given in the Haryana schedule of rates 2023 regarding these items.
6. Approximate quantities have been given in the contract schedule of rates and these can vary at the time of execution of work. The payment will however, be made for the actual work done by the contractor. No extra claim, what so ever, will be admissible to the contractor on account of variations, addition, deletion of any item over the quantities depicted in this contract schedule of rates.
7. All the amendment issued on Haryana schedule of rates 2023 upto the date of opening of tender will be applicable to this contract schedule of rate.
8. Any other item not included in this contract schedule of rates and get done at site of work will be paid according to the Haryana schedule of rates 2023 edition subject to the premium or discount tendered by the contractor.
9. No claim will be entertained from the contractor in case any omission in description, rates & units which might have occurred in any of these items taken in this schedule, while comprising this schedule on account of typing or over writing. In case of any error, the same shall be rectifiable at any stage as per Haryana schedule of rates 2023 along with the amendments on the same received from time to time.
10. The premium should be quoted above or below ceiling rates for schedule items and no condition shall be given. In case any condition is tendered, this will be considered as null and void and only the premium tendered will be accepted. In case any tenderer refuses to accept the above afterwards, his earnest money will be forfeited.
11. The contractor shall submit the lost certificate of the steel brought by him. Also, the sample of steel may be got tested by Engineer in Charge. The steel shall be ISI marked of Fe 500 of IISCO, RINL, SAIL, TISCO.
12. No premium shall be payable on Non-Schedule items.
13. Contractor shall be fully responsible for structural safety in all respect of structure existing/under construction in the vicinity of structure under construction.

14. The rate included in the contract schedule is of the full rate coverage the cost of filling the water retaining structure, testing for water tightness to the full satisfaction of the Engineer in charge and emptying the same if desired.
15. Minimum 40 mm clear cover be provided on the reinforcement on the inner side of the structure. The contractor shall ensure structurally safe and water proof structure.
16. No extra load lift will be payable for the executed earth of structure and its proper disposal will be responsibility of the contractor at his own cost. The contractor will be at liberty to disposed off this quantity in his own way and will quote his rates accordingly.
17. Each manhole cover and frame shall have the trade mark of manufactures month and year along with class and work and shall be ISI mark.
18. All taxes such as royalty, municipal tax octopi charge forest lax, GST and any other kind of taxes shall be paid by the contractor and are included in the rate quoted by the contractor, separately for which no premium will be allowed.
19. Any damage to the existing services such as Water Supply/Sewerage Connection, Electric Cable, Telephone cable shall be repaired/restored by the agency free of cost to the entire satisfaction of the Engineer-in-Charge. No extra payment/claim on this account is admissible under any circumstances.
20. Where the agency quotes abnormally low rates, an equivalent amount of such item should be kept revolved and would be released to the agency in commensurate of the progress of work done in case the agency fails to execute such works, this amount would be forfeited
21. Where the agency quotes abnormally high rates the quantity would be restricted as detailed in the DNIT
22. There will be no change in the approved quantities of various items taken in the DNIT until and unless it has been approved by the competent authority.
23. The contractor/agencies shall fill up the component-wise the heading (b) non-schedule items. The tender of the contractor/agency who does not fill up the component wise rates, shall be out rightly rejected as an irresponsive tender and earnest money of the concerned contractor/agency shall be forfeited for not observing the required procedure
24. It shall be full responsibility of the contractor to ensure safety of his worker. Contractor shall be fully responsible for any type of mishap or accident.
25. All safety measure shall be adopted by the contractor at his own cost.
26. Public safety shall also be the responsibility of the contractor. He shall provide proper caution board, barricading and birdcalls wherever required. Any accident/mis-happening, theft at site due to any reason will be sole responsibility of the contractor.

27. The contractor will dispose of the excavated surplus soil at his own cost to a place as directed, load, lift wet, earth, loading, unloading and carriage will not be paid to the contractor who will have no claim on the same at any time later. Further the contractor will quote his rate taking into account the effect of the surplus earth which will be disposed of by him at his own cost.

28. Sod Investigation. The contractor is required to verify the underground water table, bearing capacity and all other Geo physical conditions of the soil/earth before tendering. All the expenditure accorded to above investigations shall be included in the rates quoted by the contractor. The contractor is required to quote his rates considering the above factors and no subsequent payments will be made on this account.

29. Lowering of water table if required during the execution of work will have to be done by the contractor and no extra payments of dewatering, lowering of sub soil water etc. will be made.

30. No extra lead/ Carriage beyond 1 Km will be payable to the agency/ contractor for any HSR/NS Item especially earth work.

31. No extra payment will be made to the contractor/ agency for excavating earth work or any structure of water works up to full depth (i.e. more than 1.5 m) as proposed for that structure. Rate as per HSR item 4.12.1 only will be payable for the full depth of excavation for the proposed structure. Excavated earth will be first disposed into water works or along the boundary wall of installation with entire satisfaction of Engineer-in-Charge. Surplus soil will be disposed off by the contractor/agency at his own cost and no extra payment will be made for this for any carriage/lead as well as lift.

### **Special condition for contractor O & M**

1. Engineer-in-Charge will take over each / every installation in working conditions with its all electrical, electronic and mechanical fixtures to the contractual agency at the time of commencement of contract. The contractual agency will execute the work as per terms and conditions of the agreement and will hand over each installation duly in working condition (as received) after completion of the contract. The inventory of an electrical, electronic and mechanical fixtures of each installation in working condition in duplicate will be before commencement and after completion of the said contract. The defects/shortcomings if any shall be mentioned in the inventory.

2. The contractual agency will arrange/keep ready adequate standby pumping sets of relevant duty points duly in working condition so that the same could be put into operation to restore drinking water supply within 24 hours, in case of any fault occurs in any pumping machinery.

3. The contractual agency will ensure sufficient/designated pressure at the point of delivery of the tubewell to ensure adequate drinking water to the consumers. The contractual agency will also be responsible for maintenance of the pumps and its accessories, repair/leakage in pipe line, repair of sluice valve non return valve, repair replacement of specials, electrical &

mechanical components etc at the premises of the Bach/every installation within its boundary wall.

4. The contractual agency will be responsible for all types of maintenance of submersible Horizontal/Vertical centrifugal motors, pumps etc. including repair /replacement of electrical panel board, submersible cable, stabilizer, if any installed-on installation. The entry of each maintenance will be made in the Log book as well as in Job card and will be got verified by the field officers/officials in charge of the installations, At the time of taking away any above-mentioned items, the same should be entered in log book and got signed by the officers/officials in-charge of installations of the department.

5. The contractual agency will be responsible for repair & replacement of all types of electrical fixtures in panel board including CT/PT and capacitors, submersible cable etc. with material of same make OR equivalent approved make duly verified by the field officer/official in charge of installation within 6 hours. No local or substandard material shall be used for repairs

6. In case, the length of column pipes is to be increased, it will be done by the contractual agency. However, Engineer-in-Charge will provide pipes for this purpose and replacement of old damaged pipes, free of cost. The entry of the same will be made in the log book along with lowering duly signed by the concerned Junior Engineer or his representative

7. The Engineer-in-Charge will supply the length of Submersible Cable required for additional lowering, free of cost. The cost of taking out column pipes, pumping machinery along with cable from bore, lowering & installing, is included in the scope of work of this contract. Nothing extra shall be payable for transportation from site of work and back to site of work, which is part of allotted rates/amount.

8. The maintenance system shall also include preventive maintenance of the system.

9. The contractual agency will replace the burnt and damaged motor /pump within 6 hours of its break down with standby sets. In case of non-replacement of damaged pumping motor / pumps within 24 hours, a penalty of Rs 5000/- per day per damaged pumping set will be imposed on the agency. In case of violation of any conditions mentioned above, the contract can be terminated fully or partially in the interest of public after giving the contractual agency an opportunity of being heard by issuing a 2 days' notice at his designated address by post/SMS/ email. After that period, the Engineer-in-charge i.e. Executive Engineer or his subordinate officers i.e. Sub Divisional Engineer or Junior Engineer shall be at liberty to get the pump set repaired at the risk and cost of the contractual agency. The cost shall be recovered from him. If the contractor fails to maintain/rectify the installation for awarded period, or his working/ performance is observed unsatisfactory, the Engineer-in-Charge is at liberty to cancel the contract agreement at any time after giving due show cause notice in that case, security deposit for this work of the contractor shall be forfeited and the extra amount involved, if any, on account of getting the work done at his risk and cost will also be recovered from him, in the department or out of department or from his immovable/ movable property. In case of any arbitration in the agreement arbitration proceedings will be as per standard tender document

10. During dismantling/lowering of column pipes, if submersible motor & pump along with assembly pipes & submersible cable fall in the bore, it will be duty of the contractual agency to retrieve the same at his own cost or pay the loss on this account. If the submersible cable gets damaged during lowering/lifting of pumping machinery, the agency will be fully responsible to replace the same

11. (a) All sorts of tools, plants including transportation required for proper maintenance shall be arranged by the contractual agency at his own cost

(b) The contractual agency shall be responsible for complying with all the relevant statutory acts/rules what so ever are applicable as on date or made applicable in future during the period of contract

(c) In case, the work is transferred to other department/authority, the Engineer-in-Charge will be at liberty to continue or terminate the contract without any compensation

(d) No price escalation shall be allowed on account of any reason

(e) The specific terms & conditions mentioned in this document will supersede the usual relevant terms & conditions as per Standard Tender Form

(f) All liabilities of workers engaged by the contractor will be entirely responsibility of the contractual agency

(g) The agency shall have to submit indemnity bond duly attested and registered with notary public/ Registrar in this regard as per Annexure-A

(h) No anti-social or unwanted activity will be allowed at the site of installations.

(i) Security deposit will be refunded to the contractor after 3 months from the date of completion of the contract and no pending liability certificate issued by concerned Engineer-in-Charge

(j) Tender is open for all agencies Societies/ Firms enlisted with Department/ Board/ Corporation of Central Government, and State Government fulfilling the following Criteria:

(k) The contractual agency should have its own workshop for similar works or have any agreement with workshop of similar works for repair and maintenance for all type of pumping machinery, electric & mechanical fixtures/ installation etc.

(l). Any associated clause, which has been left out inadvertently but it is necessary for the smooth maintenance of scheme will also be followed by the contractual agency. He shall include cost of such work in his offer. The offered rate shall be inclusive of all such taxes.

(m). The offered rate shall include of all statutory taxes including service tax wherever applicable

(n). The contractor/agency should be capable for providing 24 hours services.

(o) In case pump/motor becomes unserviceable, the same shall be replaced with new pump/motor by the contractor agency free of cost such cost shall be considered by the contractor while quoting rates of tender

(p). Even if machinery / cable is damaged due to electric high voltage. The damaged parts/machinery shall be repaired/replaced by contractor free of cost & nothing extra shall be paid to the Contractor

(q) Contractor/agency will disconnect all illegal Connection from Rising main pipeline whenever required to ensure adequate water supply in Village or when ever asked by Engineer in charge. No extra payment will be made to agency.

(r) Contractor agency will ensure to less than 20% water loss (N.A.W) in whole network of water supply. chain

(s) Non-working of flow meter. DG set and other essential electric/Electronic system/ item a penalty of amounting Rs 2000/-each/Day will be impose on agency.

(t). The bidder shall inspect the pumping machinery, Electrical installation i.e. transformer & VCB, HT Panel etc. Any major repaired/replacement if required at site then the cost of such items may be included in his offer. The offered rate shall be deemed as inclusive of all such items.

(u). Tender in invited for all agencies/ Societies/ Firms enlisted with department and fulfilling following

(v) Agency have EPF and ESI Registration

(w) Cleaning of UGT including desilting should be done after every 6 months and application of food grade paint should be done yearly. No extra payment will be made to agency.

(x) DG servicing should be done by the contractor yearly including necessary parts replacements and Mobil oil No extra payment will be made to agency.

(y) Painting of all civil components and mechanical components should be done by the contractor regularly,

(z) Cost of Diesel for DG Set will be reimbursement by the department in case of power failure, on submission of authenticated Bills and copy of log book of DG sets/Hour meter of DG set

1. Approximate quantities are given in the contract schedule of rates and may vary at the time of execution of work. The payment will however be made for the actual work done by the contractor. No extra claim whatsoever will be admissible to the contract account of variation, alteration or deletion of any item over the quantities depicted in this contract schedule of rates.
2. The contractor will have to make his own arrangement for all materials.
3. Any other items not included in this contract schedule of rates and got done at site of work will be paid according to Haryana PWD, schedule rates subject premium/discount tendered.
4. The contractor shall submit the test certificate of the steel brought by him. Also sample of RINL, SAIL Jindal steel & power Ltd (Jindal steel) and JSW Steel Ltd as any other primary supplier as approved by direction committee of Haryana
5. No premium shall be payable on No. Schedule items
6. All the reinforcements shall be of 500 grade conforming to HMS and such certificates of Confirmation shall be produced by the contractor
7. Contractor shall be fully responsible for structural safety in all respect of structure existing/under construction in the vicinity of structure under construction
8. The rate quoted in the contract schedule is of the full rate coverage the cost of filling the water retaining structure, testing for water tightness to the full satisfaction of the Engineer in charge and emptying the same Desired
9. Minimum 40mm clear cover be provided on the reinforcement on the inner side of the structure. The contractor shall ensure structurally safe and water proof structure.
10. No extra will be payable for the executed earth of structure and its proper disposal will be responsibility of the contractor at his own cost. The contractor will be at liberty to dispose off this quantity in his own way and will quote his rates accordingly
11. Each manhole cover and frame shall have the trade mark of manufacturer month and year along with class and work and shall be St mark
12. All taxes such as royalty, municipal tax octroi charge forest tax. GST and any other kind of taxes shall be paid by the contractor and are included in the rate quoted by the contractor, separately for which no premium will be allowed
13. Any damage to the existing services such as Water Supply/Sewerage Connection Electric Cable Telephone cable shall be repaired/restored by the agency free of cost to the entire satisfaction of the Engineer-in-Charge. No extra payment claim on this account is admissible under any circumstances
14. The contractor is required to verify the water table, bearing capacity and other Geo physical condition before tender and no subsequent claim will be entertained on this account
15. Where the agency quotes abnormally low rates, an equivalent amount of such item should be kept reserved and would be related to the agency in commensurate of the progress of work done. In case the agency fails to execute such works, this amount would be forfeited
16. Where the agency quotes abnormally high rates the quantity would be restricted as detailed in the DNIT.
17. There will be no change in the approved quantities of various items taken in the DNIT until and unless it has been approved by competent authority.
18. The contractor shall submit the photographs of the site from manhole to manhole showing width and depth of excavation, concrete mix below and in haunches of pipe and jointing of pipes before filling the earth while submitting the bills to Division Office

19. The contractor agencies shall fit up the component wise the heading (1) Non schedule items. The tender of the contractor agency who does not fit up the component wise rates, shall be out rightly rejected as an irresponsible tender and earnest money of the concerned contractor/agency shall be forfeited for not observing the required procedure.

20. It shall be full responsibility of the contractor in ensure safety of his worker at site and as well as during any leakage or repair inside & as well as outside campus. Contractor shall also be fully responsible for any type of mishap or accident. Any accident/mis-happening, theft at site due to any reason will be sole responsibility of the contractor.

21. All safety measure shall be the adopted by the contractor at his own.

22. Public safety shall also be the responsibility of the contractor, He shall provide proper caution board and barricades wherever required

23. The contractor will dispose of the excavated surplus soil at his own cost lot a place as directed lead, lift wet, earth, loading, unloading and carnage will not be paid to the contractor who will have no claim on the sane at any time later Further the contractor will quote his rate taking into account the effect of the surplus earth which will be disposal of by him at this own cost.

24. The lowering of water table during the execution of work will be done by the agency at the cost agreed upon and no additional cost for lowering of water table will be paid to the agency on account expressed to verify the level of water table before quoting their rates and extent of work required to be executed and shall quote their rates accordingly.

25. The SMDA Haryana reserves the right of negotiation as per policy approved by the state government with the tenders in case the prices quoted are felt to be higher side or otherwise. The negotiation will be carried out with 1st lowest contractor.

26. 400 mmi/d DI pipe for which provision has been made on labour rates. The DI will be issued free of cost to the contractor by the SMDA, Sonipat. The loading/unloading carriage shall not be paid extra and contractor may quote his rates accordingly.

27. Third Party Inspection - The Engineer-in-Charge may opt for 3rd party inspection other than department in addition to inspection by department staff, the 3rd party would inspect to ensure execution of work as per specification/ agreement and also quality control i.e. draw of samples, testing and other items etc. The report of the same would be submitted to Engineer-in-Charge by the 3rd party. The agency/ contractor shall be bound by the report of 3rd party inspection and shall take remedial measures for execution of work as per specifications in agreement at their own cost. The cost of 3rd party inspection will be borne by the employer.

28. The Contractor shall confirm to the regulations, safety precautions, bye-laws or any other statutory rules made by any local authority or by the Government and shall protect and indemnify the Engineer against any claims or liability arising from or based on the violations of any such laws, ordinance, regulations, orders and decrees, etc.

29. The Contractor shall make his own arrangement for supply of all materials including cement and steel. The Contractor shall be responsible for all transportation and storage of the materials at site and shall bear all the related costs. The Engineer shall be entitled, at any time, to inspect or examine all such materials. The Contractor shall provide reasonable assistance for inspection or examination as may be required.

29.1 The Contractor shall keep an accurate record for use of materials like cement and steel used in the works in a manner prescribed by the Engineer

29.2 Large stock of cement shall not be kept at the work site but only sufficient quantities shall be kept to ensure continuity of the work. The Contractor shall provide and maintain efficient water proof storage sheds for cement on the site of work. It shall be stacked on the platform 30 cm above the floor level and shall be covered with tarpaulin or any other impervious covering material in order to protect the cement bags from moisture. The cement shall be neatly stacked in an orderly manner so as to allow an easy access and count. The arrangement of storage and utilization shall be such as to ensure the utilization of cement in order of its arrival at the stores and the Contractor shall maintain satisfactory records which would at any time show the date of receipt and proposed utilization of cement lying in the stores at site

30. The Engineer may order the Contractor to suspend any work that may be subject to damage by climatic conditions and no claim of the Contractor will be entertained by the Engineer on this account

31. Cement contents - Actual cement required for the aggregates in concrete to be used shall be determined by laboratory test while designing the concrete mixes. If the cement contents of the design mix of that grade come less than the provision of cement contents provided in the Haryana Scheduled of Rates, (with latest amendments) due to durability conditions, the cement contents as provided in the Haryana Schedule of Rates shall be used and no extra payment on this account shall be made to the contractor. No extra amount over and above the minimum cement content as provided in the Haryana Schedule of Rates shall be paid.

**Instructions/Special Qualification Requirements (Any other condition for execution of works may also be added)**

- (i) The following special qualification requirement is hereby inserted
1. The bidder must have experience of searching and purchasing of suitable land for Ranney well in the bank of any River with feasibility test and other test in any contract
  2. The bidder must also have experience of designing, construction erection and commissioning of Ranney Wells with pushing work of slotted pipe of minimum 80% of the length required in a single Ranney Well (i.e., 1000 Mtrs, x 80% 800 Mtrs.) in a depth of minimum 20 meters from ground level during last 7 years.

<b>Payment schedule for capital work and O&amp;M period.</b>				
<b>Description</b>	<b>Breakup of Cost (for payment purposes)</b>	<b>Revised conditions</b>		
Capital work	80%	Civil works – 40% of 80% capital cost		
		Mechanical works – 40% of 80% capital cost		
		Electrical and Instrumentation works – 20% of 80% capital cost		
Operation & Maintenance period (O&M)	20%	6 years Defect Liability-cum-Maintenance period with 20% of total project cost towards O&M		
		<b>Sr. No.</b>	<b>Description</b>	<b>Percentage (%)</b>
		1	Operation and maintenance during 1 <sup>st</sup> year of Defect Liability-cum-Maintenance period	2.00% of agreement amount
		2	Operation and maintenance during 2 <sup>nd</sup> year of Defect Liability-cum-Maintenance period	2.50% of agreement amount
		3	Operation and maintenance during 3 <sup>rd</sup> year of Defect Liability-cum-Maintenance period	3.00% of agreement amount
		4	Operation and maintenance during 4 <sup>th</sup> year of Defect Liability-cum-Maintenance period	3.50% of agreement amount
		5	Operation and maintenance during 5 <sup>th</sup> year of Defect Liability-cum-Maintenance period	4.00% of agreement amount
		6	Operation and maintenance during 6 <sup>th</sup> year of Defect Liability-cum-Maintenance period	5.00% of agreement amount
		Total	20.00% of agreement amount	
Release of Security		6% from each due payment to contractor, subject to maximum limit of 5% of the final contract price, upon completion of capital work 50% is released and the remaining 50% is released after defect liability-cum-Maintenance period. On completion of the capital works, the contractor may substitute retention money with an on-demand Bank Guarantee/FDR.		
Defect Liability-cum-Maintenance period (DLP)		6 years Defect Liability-cum-Maintenance period (after 3 months trail run)		
Performance Bank Guarantee (PBG)		5% of the contract value, which is released 45 days after expiry of 6 years Defect Liability-cum-Maintenance period.		