

| JOB NO. 2 | | | | | | | | | | | | | | | |
|--|--|------------|-------|-----------|---------|--------|--------|------|--|------------------|--|--------------|--|--------|--|
| DRAFT NOTICE INVITING TENDER | | | | | | | | | | | | | | | |
| Name of Work:- Providing Drinking water facility to village Tiamoo Khara in Tehsil Nalagarh , Distt. Solan HP (SH:- C/O 1 No RCC Intake,C/O RCC storage tank of 10000 litrs. Capacity & Laying, jointing & testing of GI pipe)(under DCP Deposit work) | | | | | | | | | | Estimated Cost : | | 138000.00 | | /-only | |
| | | | | | | | | | | Earnest Money : | | 2760.00 | | /-only | |
| | | | | | | | | | | Time :- | | Three months | | | |
| Sr. No. | Description of work | No.or Qty. | | Unit | RATE | | AMOUNT | | | | | | | | |
| | | | | | Figures | Words | Rs. | P | | | | | | | |
| 1.00 | Excavation in foundation trenches etc. in all kinds of soil such as pick work,jumper work blasting work in soft or hard rock or by cum chiselling soft/ hard rock where blasting is prohibited in all leads and lifts including trimming and dewatering where ever required dressing of sides and bed stacking the excavated soil clear from the edge of excavaton and then returning the excavated soil after completion of work in 15cm layers when required into plinths, side of foundation etc. Consolidating each deposited layers by remming and watering and then disposing of all surplus excavated earth as direction within a lead of 20 mtrs. pick jumper work 50% each as per direction and to the entire satisfaction of Engineer-in-Charge upto all lead and lifts. | 14.03 | cum | Per cum. | | #NAME? | | 0.00 | | | | | | | |
| 2.00 | Providing and laying cement concrete 1:4:8 (1 cement :4 sand :8 graded stone agg. 40mm nominal size) and curing complete excluding cost of form work in foundation and plinth in all lead and lifts as per the direction and to the entire satisfaction of Engineer-in-Charge. | 1.90 | Cum | Per Cum | | #NAME? | | 0.00 | | | | | | | |
| 3.00 | Providing form work with steel plates 3.15mm thick welded with angle iron in frame 30x30x5mm so as to give a fair finish including centring, shuttering strutting and propping etc. with wooden batten and ballies, in all heights of propping and centring below supporting floor to ceiling not exceeding 4 mtrs and removal of the same for insitu-reinforced concrete and plain concrete work in :- | | | | | | | | | | | | | | |
| (a) | Foundation footings bases of columns and mass concrete. | 1.86 | Sqmt. | Per Sqmt. | | #NAME? | | 0.00 | | | | | | | |
| (b) | Vertical surfaces such as wall (any thickness) partitions and the like including attached pillars, buttresses plinth and string courses and the like in all leads and lifts as per direction and to the entire satisfaction of Engineer-in-charge. | 52.68 | Sqmt. | Per Sqmt. | | #NAME? | | 0.00 | | | | | | | |
| (c) | In flat surfaces with steel plates such as soffits of suspended floors, roofs, landing and the like floor etc upto all thickness in all leads and lifts as per direction and to the entire satisfaction of Engineer-in-charge. | 9.49 | Sqmt | Per Sqmt. | | #NAME? | | 0.00 | | | | | | | |
| 4.00 | Providing and laying cement concrete 1 : 1½ : 3 mix. (1 cement : 1½ : sand : 3 graded stone aggregate 20mm nominal size) and curing complete excluding cost of form work and reinforcement for reinforced concrete work in : | | | | | | | | | | | | | | |
| (a) | Foundation footings bases of columns and the like; and mass concreteas per direction and to the entire satisfaction of Engineer-in-Charge. | 1.87 | cum | Per cum. | | #NAME? | | 0.00 | | | | | | | |
| (b) | Walls any thickness but not less than 0.1m thickness including attached pillar buttresses, plinth and string courses from top of foundation upto two level all floor level as per direction and to the entire satisfaction of Engineer-in-Charge. | 3.95 | cum | Per cum. | | #NAME? | | 0.00 | | | | | | | |
| (c) | Suspended floors roofs, landings and shelves and their supports, balconies, beams, girders, bressumers and cantilevers upto floor two level. as per direction and to the entire satisfaction of Engineer-in-Charge. | 1.17 | cum | Per cum. | | #NAME? | | 0.00 | | | | | | | |
| 5.00 | Providing & placing of Tor steel reinforcement for RCC work including bending binding and placing in position including wire upto all floor level as per direction and to the entire satisfaction of Engineer-in-Charge. (Labour rate) | 617.00 | Kg | Per Kg. | | #NAME? | | 0.00 | | | | | | | |
| 6.00 | Providing and fixing MS sheet manhole cover of 600 mm X 600 mm to existing storage tank made of angle iron 30 mm X 30 mmX 4mm base plate and man hole frame angle iron 25 X 25X 4 mm with MS sheet 2 mm thik including cutting welding , red lead paint, locking arrangement with lock complete as per the direction and satisfaction of Engineer - in -Charge. | 2.00 | No | Each. | | #NAME? | | 0.00 | | | | | | | |

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|--------------------------------|---|---------|------|---------|--|-----------------------|------|-------------|
| 7.00 | Excavation in drains and channels etc. in all kinds of soil such as pick work, jumper work, blasting, soft and hard rock and through conglomerate rock upto all leads and lifts stacking the excavated soil not more than 3 meters clear from the edge of excavation and then returning the stacked soil in trenches consolidating each deposited layers by ramming and watering and then disposing of all surplus excavated material within all leads and lifts and like as directed by the Engineer-in-Charge including jungle clearance. | 357.00 | Cum | Per Cum | | #NAME? | 0.00 | |
| 8.00 | Laying and jointing & testing of G.I pipe for outlets pipe scour pipe and over flow pipes etc. in all leads and lifts as per direction and to the entire satisfaction of Engineer-in-Charge. | | | | | | | |
| | 20 mm dia (Light class) | 540.00 | Rmt. | Per Rmt | | #NAME? | 0.00 | |
| | 25 mm dia (Light class) | 1050.00 | Rmt. | Per Rmt | | #NAME? | 0.00 | |
| | 50 mm dia light class. | 10.00 | Rmt | Per Rmt | | #NAME? | 0.00 | |
| 4.00 | Providing and fixing Gun Metal wheel valve of following dia screwed type as per ISI.778-ISI. Marked complete in all respect as per direction and to the entire satisfaction of Engineer-in-Charge.. | | | | | | | |
| | 20 mm dia | 1.00 | No | Each | | #NAME? | 0.00 | |
| | 25 mm dia | 1.00 | No | Each | | #NAME? | 0.00 | |
| | 50 mm dia | 1.00 | No | Each | | #NAME? | 0.00 | |
| Total in Figures | | | | | | | | 0.00 |
| Total in Words | | #NAME? | | | | | | |
| TERMS AND CONDITIONS: - | | | | | | | | |
| | 1. The work will be got executed as per IPH specifications. | | | | | | | |
| | 2. Security, sale tax, income tax, labour cess and other statutory deduction will be deducted as applicable. | | | | | | | |
| | 3. The contractor is fully responsible for watch and ward of the material at site of work. | | | | | | | |
| | 4. Nothing shall be paid for rejected work/material. | | | | | | | |
| | 5. Cement @ Rs. 236/-per bag and steel @ Rs. 3890/- Qtl will be issued from IPH store Nalagarh. | | | | | | | |
| | 6. GI pipe shall be issued from IPH store Nalagarh free of Cost. | | | | | | | |
| | | | | | | Executive Engineer, | | |
| | | | | | | I&PH Divn., Nalagarh. | | |

JOB NO. 3

| * SCHEDULE OF QUANTITY * | | | | | |
|---|--|------------|------|-------------------|-------------------|
| Name of work :- Providing LWSS to village Plassi Kalan and Saini Majra in Tehsil Nalagarh District Solan (HP)(SH:- S/E of Submersible pumping machinery with allied accessories , Laying, jointing & testing of Rising main and Distribution system.) | | | | Estimated cost :- | 388737 /-only |
| | | | | Earnest money :- | 7775 /-only |
| | | | | Time Limit :- | 3 (Three months.) |
| S.No | Description of item. | Quantity. | Rate | Unit | Amount. |
| 1 | Excavation in drain and channels etc. earth work for pipes upto all depths in all classification of earthwork such as pick work, jumper work, saturated soil including bailing or pumping out water, blasting soft/hard rock or chiseling soft/hard rock where blasting is prohibited in all lifts including jungle clearance wherever required, trimming & dressing of sides, levelling of beds to correct grade including shoring/strutting, planking , timbering & dewatering wherever required stacking the useable/unuseable material/soil seperately & after laying, jointing & testing of pipes, returning the useable soil in trenches in 15cm layers including consolidating of such deposited layer by ramming & watering & then disposing of all surplus excavated soil/ unuseable material as directed with in all leads & lifts including restoration of un-metalled surfaces to its original condition & including cost of diversion for traffic, right signals, fixing caution boards, crossing over trenches for access to houses, fencing etc. complete in all respect with in all leads and lifts and as per direction of the Engineer-in-charge at site of work. | 897.66 Cum | | Per Cum. | |
| RISING MAIN | | | | | |
| 2 | Laying,jointing and testing and commissioning at site in trenches levelled and properly graded plain ended GMS pipe 80 mm (M) confirming to BIS 1239-1990 (Part -1) of latestwith upto date ammendments capable of with standing required test pressure as prescribed in BIS code in random length 5.50 to 6.50 mtr. The pipe end shall be bevelled suitable for butt weld including the cost of jointing with butt welding conforming to IS 816-1969 or latest as applicable (leak proof) in three layer of site of work with welding of standard make and all allied accessories what ever required for welding at site tail piece tees bends manufactured from parent pipes etc. and cutting of pipes wherever required as per site requirement i/c carriage in all leads lifts as directed by Engineer in charge. (Earth work shall be measured and paid for seperately). | 60.00 Rmt | | Per Rmt. | |
| 3 | Providing, welding and fixing of M.S plate flange of 80 mm dia of following flange table , conforming to IS: 6392-1971 or Latest with upto date ammendments to GI pipe after every 90 mtr or as per site requirement including cutting of pipes where ever required welding in three layer (Leak proof) conforming to specification as prescribed in relevent IS code IS 816-1969 or latest as applicable with upto date ammendments with nuts, bolts and washers and special etc. conforming to IS 1963 or latest with upto date ammendment that is paking sheet including asbestos fiber sheet minimum 3 mm thick and painting with enticrossive paint complete in all respect in all leads, lifts and carriage of materials and as directed by Engineer- incharge. | | | | |
| | 80 mm. dia flange table-5. | 1.00 Pair | | Per Pair | |
| S/E OF SUBMERSIBLE PUMPING MACHINARY WITH ALLIED ACCESSORIES | | | | | |
| 4 | Supply, erection, testing & commissioning of mono submersible pumping set of reputed make such as KSB/Calama/BS/Johnston, Amrut/Sabar/Oswal/Worthington conforming to latest relevent BIS code. The pump should be fitted with free flow impellers of bronze /suitable alloy as per BIS 5659 or latest with up to date ammendments suitable for raw/clear water having Charcteristics as mentioned in iten No.4 (a) greased packed bearings & shell with wound stator on motor side & with shaft protection sleeve on pump side ensuring better life for shaft conforming to BIS specifications. The pump shall be directly coupled to a submersible squirrel cage electric induction motor of Kirloskar/NGEF/Jyoti / Crompton make conforming to relevent BIS code with up to date ammendments totally dust & water proof for submersible duty isolated from the pump by intermediate casing with double mechanical seal in oil chamber chamber & grease packed lubricated bearings & provided with stainless steel thrust bearing plate to withstand non vertical loads with minimum wear & tear. It should also be fitted with a device to take up expansion of water with the heating of motor. The pump set should include water level guard, erection clamps, cable clips & depth gauge etc. & suitable for operation on data given below:- | 2 set | | Per Set | |
| | a). Total Head in mtrs (l/c depth of Column Pipe in case of t/well) : 102.60 mtr. | | | | |
| | b). Capacity (in LPS) of each pump set : 3.98 LPS. | | | | |
| | c). Dia of R/Main (in mm) : 80 mm. | | | | |
| | d).Length of R/Main (in Mtrs) : 60.00 mtr. | | | | |
| | e).Dia of Column pipe (in mm) : 65 mm. | | | | |
| | f).Length of Column pipe (in Mtrs) : 67.50 Rmt | | | | |
| | A). SITE CONDITIONS:- | | | | |
| | i). Location of Site :- Near village Plassi. | | | | |
| | ii) The altitude of place in which the motor is intended to work :- 435.00 mtrs. | | | | |
| | iii) Humidity :- Wheather generally remains humid during monsoon season. | | | | |
| | iv). Nature of atmosphere :- As normally encountered in Shivalik Ranges. | | | | |
| | v). Detail of quality of water :- Clear cold water | | | | |
| | vi).Water free from sand or not :- Yes. | | | | |
| | vii). Water corosive or not :- Not. | | | | |
| | viii).Turbidity :- 50 PPM. | | | | |
| | ix). Type of well :- | | | | |

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|--|---|--|--|--|--|
| x). Inside Dia of Well :- | 200 mm dia | | | | |
| xi). Depth of water during HFL in the pond :- | ----- | | | | |
| xii). Max. draw down :- | | | | | |
| xiii). Depth of T/ well :- | 179.50 Mtrs. | | | | |
| xiv). Any other information or requirement :- | ---- | | | | |
| B). OPERATING CONDITIONS :- | | | | | |
| i). Type of current :- | AC three/single phase | | | | |
| ii). Operating frequency :- | 50HZ. | | | | |
| iii). Rated voltage :- | 400 (+/-) 10% volts | | | | |
| iv). System of earthing if any to be adopted :- | Double loop earthing as per BIS 3043-1987 latest with upto date ammendments. | | | | |
| v). Speed of revolution :- | To be quoted by tenderer. | | | | |
| vi). Direction of rotation :- | To be quoted by tenderer. | | | | |
| vii). No. of pumping hours per day :- | 8 hours. | | | | |
| viii). The max. Temp. of cooling air & water in the place in which the pumpset is intended to work in ordinary service :- | 35 degree.(Generally warm). | | | | |
| C). MOTOR:- | | | | | |
| i). Ref to BIS code :- | BIS 9283-1979 or latest with upto date ammendments. | | | | |
| ii). Type of enclosure of motor :- | As per BIS 4691-1985 or latest with up to date ammendments | | | | |
| iii). Type of duty :- | "S1" i.e. Continuous duty type as per IS-12824-1989 or latest with up to date ammendments. | | | | |
| iv). Mechanical out put in KW :- | Suitable for driving submersible pumps required for duties specified against pumps. To avoid overloading of motor a margin of about 15-20% may be kept in the rated out put of prime mover. | | | | |
| v). Class of insulation :- | Class "B" . | | | | |
| vi). Max.permmissible temp. rise of motor reqd. if different from that given in B (viii) above :- | To be specified by the tenderer. | | | | |
| vii). Particulars of test reqd. & where they are to be conducted:- | As per terms & conditions attached. | | | | |
| viii). Particulars as to whether voltage limiting device will be employed:- | Star Delta starter, oil immersed, fully automatic to be installed between bus bar & motor. Shunt capacitor is also proposed to be installed for improving the power factor at site. (NOTE:- Star delta starter upto 37.5 KW & ATS for 37.5 KW & above) | | | | |
| ix). Type of motor :- | As per BIS 9283-1979 or latest with upto date ammendments. | | | | |
| x). Details of shaft extension reqd :- | To work with the pump offered satisfactorly. | | | | |
| xi). Breakway torque in terms of rated load torque & the corresponding breakway starting current which may be taken from the supply with the starting apparatus in circuit :- | Breakway torque to be given by the tenderer but the starting current should not exceed 2.5 times of the full load current. | | | | |
| xii). Nature of load & any information regarding the driven machine which has a bearing upon the torque reqd. during the accelerated period, the kinetic energy of the moving parts to be accelerated & No.of starts during a specified period:- | To work with the pump offered satisfactorly. | | | | |
| xiii). Where possible fault capacity of the system to which the motor is connected :- | The motor should be able to withstand initial current of 2.5 times the rated current for two minutes without suffering damages or permanent deformations . | | | | |
| D). PUMPS:- | | | | | |
| i) Nos of pumps required :- | 2 Nos. Pump. (One set will be stand bye) | | | | |
| ii). Spare parts required :- | For two years normal maintenance as recommended by manufacturer. | | | | |
| iii). Type of drive :- | Electric induction motor. | | | | |
| iv). Optional fittings required :- | ----- | | | | |
| PUMP OPERATING CONDITIONS:- | | | | | |
| i). Capacity of pump (in lps) :- | 3.98 LPS. | | | | |
| ii). Total head (in Mts.) :- | 102.60 Mtrs. | | | | |
| If total head is not known then following details be provided:- | | | | | |
| a) Static head (in mtrs):- | 93.50 Mtr. (static delivery head i/c column pipe depth) | | | | |
| b) Minimum depth of water (in mtrs) :- | 30.48 Mtr. | | | | |
| c) Seasonal Variation in water level (in mtrs):- | 3.00 Mtr | | | | |
| d) Ground level to max. water level (in mtrs) :- | | | | | |
| e) Ground level to delivery point (in mtrs):- | | | | | |
| f) Pressure in the suction tank (in kg/cm ²)- | | | | | |
| g) Pressure in the delivery tank (in kg/cm ²) :- | | | | | |
| iii). Length of R/Main (in mtrs):- | 60.00 mtrs. | | | | |
| iv). Dia of R/Main (in mm):- | 80 mm. | | | | |
| v). Length of Column pipe (in mtrs) :- | 67.50 Mtrs. (+) 10.00 mtr delivery pipe. | | | | |
| vi). Dia of Column pipe (in mm) :- | 65 mm | | | | |
| vii). Turbidity of water (in ppm) :- | 50PPM | | | | |
| viii). Drive type :- | Electric driven. | | | | |
| ix). Limits of total head in which the pump is reqd. to operate :- | (-) 15% to (+) 10% of total head. | | | | |

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| | x) Suction/delivery size of pump :- To be specified by the tenderer. | | | | |
| | xi). Efficiency of pump at :- To be specified by the tenderer. | | | | |
| | a) duty head of as mentioned in in item No.4(a) :- 102.60 mtrs. | | | | |
| | b) (+) 10 % head of as mentioned in in item No.4 (a) :- 112.86 mtrs. | | | | |
| | c) (-) 15 % head of as mentioned in in item No.4 (a) :- 87.21 mtrs. | | | | |
| | xii). Material of construction :- To be specified by the tenderer (manufacturers certificate to be appended) | | | | |
| 6 | Supplying and installation at site of suitable direct on line/oil immersed star delta/ATS/stator rotor starter of standard make such as MEI/Kilburn/Jyoti/ Siemens/Larson & Tubro conforming to BIS-8544-1979 latest with up to date amendments for squirrel cage/slip-ring motor (make to be specified by the tenderers) mounted on panel board with magnetic type over load release & dashpot,time lag under voltage release with initial oil filling . Note:- Star - delta - starter upto 37.5 KW , ATS between 37.5 KW to 50 KW and slater rotor starter with slipring motor beyond 50 KW. | 2 | No. | | Each |
| 7 | Providing & fixing at site M.S. sheet 16 SWG steel fabricated floor mounted closed almirah type switch board including angle iron post of suitable height and size ISA 40x40x6mm duly painted comprising and capable of mounting the following accessories including cost of providing & fixing of all these accessories with all internal electric connections. The drawing of panel board shall be subject to approval of Engineer in charge. | | | | |
| | a). Ammeter AC supply,100 mm dia circular dial Auto electric/AE/IMP/Havells make of suitable range for above motor with selector switches conforming to BIS 1248-(P-II)1983 latest with up to date ammendments. | 1 | No. | | Each |
| | b). Voltmeter AC supply,100 mm dia circular dial Auto electric/AE/IMP/Havells make of suitable range for above motor with selector switches conforming to BIS 4064-1978 with up to date ammendments. | 1 | No. | | Each |
| | c). ICTP switches with HRC fuses of Kilburn/Larsen & Tubro/Standard/Siemen/Havells make and having capacity 30% extra of the operational rating of motor as per BIS 4064-1978 with upto date ammendments immediatly after the power meter of HPSEB. | 1 | Set. | | Each |
| | d).Busbar chamber having three copper bars of suitable rating for full length equal to width of board of three live phases and one copper bar of half rating of full length for neutral conforming to BIS 8084-1976 and 11353-1985 read with 5578-1985 all latest with upto date ammendments. | 1 | No. | | Each |
| | e).ACB/MCB/Oil circuit breaker of suitable capacity of Kilburn/L &T/MEI/GEC/Standard make on incoming feeder for motors offered by the tenderer conforming to BIS 2516-1985 latest with upto date ammendments with initial oil filling whenever required & neutral linked under voltage release. | 1 | No. | | Each |
| | f).Three phase indicating lamps complete with toggle switches for individual motors conforming to BIS 3452 part I & II latest with up to date ammendments. | 1 | Set. | | Each |
| | g) Earth leakage circuit breaker/relay of recommended make such as Kilburn/L&T/MET/GEC conforming to BIS-2516-1977 with upto date ammendments and of suitable range which should have control box, oprating handel and trip/reset push button, on/ off indicators, re-indicating off spring condition of the circuit breaker for over current protection. The circuit should be equipped with magnet thermal release with metallic tap CTS. It should also be fitted earth fault for tripping of breaker on occurrence of earth fault on/ of breaker load side. | 1 | No. | | Each |
| | h).Hour run meter of reputed make of four digit capacity conforming to BIS-722 (latest edition)/recommendations. | 1 | No. | | Each |
| | i).Suitable three phase voltage monitor relay with all protections & usual indicators with electric sirens against single phasing, low voltage, high voltage & overloading & phase voltage difference as per IS-3842 with up to date ammendments. | 1 | No. | | Each |
| | j).Single phase preventor of reputed make & suitable capacity conforming to IS:1248 (P-V)-1983 with up to date ammendments | 1 | No. | | Each |
| 8 | a). Providing and fixing at site of Kirloskar/Leader/KSB/ Fouress make of suitable dia cast iron double flanged sluice valve of 65 mm dia Class-PN-1.6 having size one size larger than the nominal dia of delivery of the pump or equal to dia of column pipe (in case of Tube well) and capable of withstanding nominal seat pressure as mentioned in item No. 4-(a) + surge pressure conforming to BIS standards with up to date ammendments for delivery line of pump. | 1 | No. | | Each |
| | b).Providing and fixing at site of Kirloskar/Leader/ KSB/ Fouress make of suitable size cast iron double flanged swing/ check type reflux valve of 65 mm dia Class PN- 1.6 having bye pass arrangement & size one size larger than the nominal dia delivery size of pump or equal to dia of column pipe (in case of tube well) and capable of withstanding nominal seat pressure as mentioned in item No.4 -(a) & conforming to standards BIS with up to date ammendments for delivery line of pump . | 1 | No. | | Each |

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| JOB NO. 4 | | | | | | |
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SCHEDULE OF QUANTITY

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|--|----------------|------------------|--------|
| Name of Work : - A/R & M/O LWSS Rug Dhar Khateta in IPH Section Diggal in Tehsil Nalagarh, Dist. Soan (HP) (SH:-Deployment of labour for smooth Operation of pumping machinery including its watch & ward) for three years. | Estimated Cost | 509055.00 | /-only |
| | Earnest Money | 10181.00 | /-only |
| | Time :- | Three yeas. | |

| Sl. No. | Description of work | No.or Qty. | Unit | RATE | | AMOUNT Rs. P |
|-------------------------|--|------------|------|---------|--------|-----------------|
| | | | | Figures | Words | |
| 1.00 | Outsourcing for supply of Skilled/ unskilled labour for smooth running, repair and maintenance of Distribution system of LWSS Nalagarh town as per the direction and to the entire satisfaction of Engineer-in-charge. Pump Operator = 1 No for three years. Chowkidar = 1 No for three Years. | 1.00 | Job | Per Job | #NAME? | 0.00 |
| Total in Figures | | | | | | 0.00 |
| Total in Words | | | | | | #NAME? |

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|--------------------------------|---|--|--|--|-----------------------|--|
| TERMS AND CONDITIONS: - | | | | | | |
| 1. | The firm/contractor intending to participate in the tendering process should be enlisted in appropriate class with the IPH Department. | | | | | |
| 2. | The scheme shall be handed over to the successful bidder by the Department in working condition within fifteen days of award of work. | | | | | |
| 3. | All statutory deductions like GST, income tax, cess, security etc. shall be deducted as per prevailing Govt. rates in force during the currency of the | | | | | |
| 4. | 2% of the payment shall be withheld by the department during the currency of contractual period. The withheld amount shall be released at the end of the | | | | | |
| 5. | The pump operator deployed by the successful contractor/firm shall be ITI deploma holders having having diploma in either electrician, motor mechanic or | | | | | |
| 6. | The contractor shall ensure the presence of deployed operating and watch & ward staff as per the time schedule mentioned in the contract document. The | | | | | |
| 7. | The contract shall remain operative for a period of 3(three) years which can be enhanced/curtailed depending upon the performance of the contractor/form. | | | | | |
| 8. | Energy charges shall be borne by the Department. | | | | | |
| 9. | No escalation charges shall be payable during the contract period. | | | | | |
| 10. | Contractor/firm will not carry out any amendment/modification to any equipment/accessories without prior approval of th Engineer-in-Charge. | | | | | |
| 11. | The contractor/firm shall intimate in writing the Junior Engineer/Assistant Engineer-in-charge of the scheme regarding any breakdown of the pumping | | | | | |
| 12. | The running bill payment shall be made quarterly on pro-rata basis after effecting the statuory and other reoveries. | | | | | |
| | | | | | Executive Engineer, | |
| | | | | | I&PH Divn., Nalagarh. | |

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| JOB NO. 5 | | | | | | | | | | |
| * SCHEDULE OF QUANTITY * | | | | | | | | | | |
| Name of Work:- Deployment of labour for smooth Operation of pumping machinery including its watch & ward of Lift Water Supply Scheme / Tubewell Kulhariwala in Tehsil Baddi, Distt. Solan (HP) for three years. | | | | | | | | Estimated Cost Rs:- | 575096 | |
| | | | | | | | | Earnest Money Rs:- | 11502 | |
| | | | | | | | | Time Limit :- | 3 year | |
| Sr.No | Description of item | | | | | | | Qty. | Rate | Unit |
| 1 | Deployment of Labour Skilled/Unskilled for Operation of Lift Water Supply Scheme/Tubewell Kulhariwala in Tehsil Baddi Distt.Solan (HP) for 3 years. | | | | | | | | | |
| | Pump Operator= 1 No for Three years, | | | | | | | 1.00 | | Per Job |
| | Chowkidar= 1No. For Three years | | | | | | | | | |
| | | | | | | | | Total :- | | |
| Terms and conditions:- | | | | | | | | | | |
| 1 | The firm/contractor intending to participate in the tendering process should be enlisted in appropriate class with the IPH Department. | | | | | | | | | |
| 2 | The scheme shall be handed over to the successful bidder by the Department in working condition within fifteen days of award of work. | | | | | | | | | |
| 3 | All statutory deductions like GST, income tax, cess, security etc. shall be deducted as per prevailing Govt. rates in force during the currency of the contract. | | | | | | | | | |
| 4 | 2% of the payment shall be withheld by the department during the currency of contractual period. The withheld amount shall be released at the end of the contractual period after obtaining the satisfactory certification from the | | | | | | | | | |
| 5 | The pump operator deployed by the successful contractor/firm shall be ITI deploma holders having having diploma in either electrician, motor mechanic or pump operator trade. The curriculum vitae (CV's) of the pump operators and | | | | | | | | | |
| 6 | The contractor shall ensure the presence of deployed operating and watch & ward staff as per the time schedule mentioned in the contract document. The watch and ward of the Pump house, and its premises shall entirely be the | | | | | | | | | |
| 7 | The contract shall remain operative for a period of 3(three) years which can be enhanced/curtailed depending upon the performance of the contractor/form. | | | | | | | | | |
| 8 | Energy charges shall be borne by the Department. | | | | | | | | | |
| 9 | No escalation charges shall be payable during the contract period. | | | | | | | | | |
| 10 | Contractor/firm will not carry out any amendment/modification to any equipment/accessories without prior approval of th Engineer-in-Charge. | | | | | | | | | |
| 11 | The contractor/firm shall intimate in writing the Junior Engineer/Assistant Engineer-in-charge of the scheme regarding any breakdown of the pumping machinery immediately as and when it occurs for carrng out its timely repairs by | | | | | | | | | |
| 12 | The running bill payment shall be made quarterly on pro-rata basis after effecting the statuary and other reoverlies. | | | | | | | | | |
| | | | | | | | | | Executive Engr IPH Division N: | |

JOB NO. 6

*** SCHEDULE OF QUANTITY ***

| | | Estimated Cost Rs:- | 575096 |
|-------------------------------|--|---------------------|-----------------|
| | | Earnest Money Rs:- | 11502 |
| | | Time Limit :- | 3 year |
| Sr.No | Description of item | Qty. | Unit |
| 1 | Deployment of Labour Skilled/Unskilled for Operation of Lift Water Supply Scheme Rakh Ram Singh in Tehsil Nalagarh Distt.Solan (HP) for three years. | | |
| | Pump Operator= 1 No for Three years, | 1.00 | Per Job |
| | Chowkidar= 1No. For Three years | | |
| | | | Total :- |
| Terms and conditions:- | | | |
| 1 | The firm/contractor intending to participate in the tendering process should be enlisted in appropriate class with the IPH Department. | | |
| 2 | The scheme shall be handed over to the successful bidder by the Department in working condition within fifteen days of award of work. | | |
| 3 | All statutory deductions like GST, income tax, cess, security etc. shall be deducted as per prevailing Govt. rates in force during the currency of the contract. | | |
| 4 | 2% of the payment shall be withheld by the department during the currency of contractual period. The withheld amount shall be released at the end of the contractual period after obtaining the satisfactory certification from the | | |
| 5 | The pump operator deployed by the successful contractor/firm shall be ITI deploma holders having having diploma in either electrician, motor mechanic or pump operator trade. The curriculum vitae (CV's) of the pump operators and | | |
| 6 | The contractor shall ensure the presence of deployed operating and watch & ward staff as per the time schedule mentioned in the contract document. The watch and ward of the Pump house, and its premises shall entirely be the | | |
| 7 | The contract shall remain operative for a period of 3(three) years which can be enhanced/curtailed depending upon the performance of the contractor/form. | | |
| 8 | Energy charges shall be borne by the Department. | | |
| 9 | No escalation charges shall be payable during the contract period. | | |
| 10 | Contractor/firm will not carry out any amendment/modification to any equipment/accessories without prior approval of th Engineer-in-Charge. | | |
| 11 | The contractor/firm shall intimate in writing the Junior Engineer/Assistant Engineer-in-charge of the scheme regarding any breakdown of the pumping machinery immediately as and when it occurs for carrying out its timely repairs by | | Executive Engi |
| 12 | The running bill payment shall be made quarterly on pro-rata basis after effecting the statutory and other reoveries. | | IPH Division N; |

JOB NO. 7

| | | | |
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| Name of Work:- Deployment of labour for smooth Operation of pumping machinery including its watch & ward of Lift Water Supply Scheme / Tubewell Kaimbawala & Bagguwala in Tehsil Baddi, Distt. Solan (HP) for three years. | | Estimated Cost Rs:- | 575096 |
| | | Earnest Money Rs:- | 11502 |
| | | Time Limit :- | 3 year |
| Sr.No | Description of item | Qty. | Rate |
| 1 | Deployment of Labour Skilled/Unskilled for Opration of Lift Water Supply Scheme/Tubewell Kaimbawala and Bagguwala in Tehsil Baddi Distt.Solan (HP) for 3 years. | | |
| | Pump Operator= 1 No for Three years, | 1.00 | |
| | Chowkidar= 1No. For Three years | | Per Job |
| | | | Total :- |
| Terms and conditions:- | | | |
| 1 | The firm/contractor intending to participate in the tendering process should be enlisted in appropriate class with the IPH Department. | | |
| 2 | The scheme shall be handed over to the successful bidder by the Department in working condition within fifteen days of award of work. | | |
| 3 | All statutory deductions like GST, income tax, cess, security etc. shall be deducted as per prevailing Govt. rates in force during the currency of the contract. | | |
| 4 | 2% of the payment shall be withheld by the department during the currency of contractual period. The withheld amount shall be released at the end of the contractual period after obtaining the satisfactory certification from the | | |
| 5 | The pump operator deployed by the successful contractor/firm shall be ITI deploma holders having having diploma in either electrician, motor mechanic or pump operator trade. The curriculum vitae (CV's) of the pump operators and | | |
| 6 | The contractor shall ensure the presence of deployed operating and watch & ward staff as per the time schedule mentioned in the contract document. The watch and ward of the Pump house, and its premises shall entirely be the | | |
| 7 | The contract shall remain operative for a period of 3(three) years which can be enhanced/curtailed depending upon the performance of the contractor/form. | | |
| 8 | Energy charges shall be borne by the Department. | | |
| 9 | No escalation charges shall be payable during the contract period. | | |
| 10 | Contractor/firm will not carry out any amendment/modification to any equipment/accessories without prior approval of th Engineer-in-Charge. | | |
| 11 | The contractor/firm shall intimate in writing the Junlor Engineer/Assistant Engineer-in-charge of the scheme regarding any breakdown of the pumping machinery immediately as and when it occurs for carrng out its timely repairs by | | |
| 12 | The running bill payment shall be made quarterly on pro-rata basis after effecting the statuory and other reoveries. | | |
| | | | Executive Engi |
| | | | IPH Division N: |
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JOB NO. 8

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|-------|--|---------------------|-----------------|
| | Name of Work:-Deployment of labour for smooth Operation of pumping machinery including its watch & ward of Lift Water Supply Scheme Dassoramajra and Jassuwana in Tehsil Baddi, Distt. Solan (HP) for three years. | Estimated Cost Rs:- | 940349 |
| | | Earnest Money Rs:- | 18807 |
| | | Time Limit :- | 3 year |
| Sr.No | Description of item | Qty. | Rate |
| 1 | Deployment of Labour Skilled/Unskilled for Opration of Lift Water Supply Scheme Dassoramajra and Jassuwana in Tehsil Baddi Distt.Solan (HP) for 3 years. | | |
| | Pump Operator= 2 No for Three years, | 1.00 | Per Job |
| | Fitter= 1No. 180 days (For Three years) | | |
| | Chowkidar= 1No. For Three years | | |
| | | | Total :- |
| | Terms and conditions:- | | |
| 1 | The firm/contractor intending to participate in the tendering process should be enlisted in appropriate class with the IPH Department. | | |
| 2 | The scheme shall be handed over to the successful bidder by the Department in working condition within fifteen days of award of work. | | |
| 3 | All statutory deductions like GST, income tax, cess, security etc. shall be deducted as per prevailing Govt. rates in force during the currency of the contract. | | |
| 4 | 2% of the payment shall be withheld by the department during the currency of contractual period. The withheld amount shall be released at the end of the contractual period after obtaining the satisfactory certification from the | | |
| 5 | The pump operator deployed by the successful contractor/firm shall be ITI deploma holders having having diploma in either electrician, motor mechanic or pump operator trade. The curriculum vitae (CV's) of the pump operators and | | |
| 6 | The contractor shall ensure the presence of deployed operating and watch & ward staff as per the time schedule mentioned in the contract document. The watch and ward of the Pump house, and its premises shall entirely be the | | |
| 7 | The contract shall remain operative for a period of 3(three) years which can be enhanced/curtalled depending upon the performance of the contractor/form. | | |
| 8 | Energy charges shall be borne by the Department. | | |
| 9 | No escalation charges shall be payable during the contract period. | | |
| 10 | Contractor/firm will not carry out any amendment/modification to any equipment/accessories without prior approval of th Engineer-in-Charge. | | |
| 11 | The contractor/firm shall intimate in writing the Junior Engineer/Assistant Engineer-in-charge of the scheme regarding any breakdown of the pumping machinery immediately as and when it occurs for carrng out its timely repairs by | | Executive Engi |
| 12 | The running bill payment shall be made quarterly on pro-rata basis after effecting the statuory and other reoveries. | | IPH Division N: |

| JOB NO. 9 | | | | | Estimated Cost Rs:- | 888785 |
|---|--|------|------|---------|---------------------|-----------------|
| Name of Work:- Deployment of labour for smooth Operation of pumping machinery including its watch & ward of Lift Water Supply Scheme Satiwala in Tehsil Baddi, Distt. Solan (HP) for three years. | | | | | Earnest Money Rs:- | 17776 |
| | | | | | Time Limit :- | 3 year |
| Sr.No | Description of item | Qty. | Rate | Unit | | |
| 1 | Deployment of Labour Skilled/Unskilled for Operation of Lift Water Supply Scheme Satiwala in Tehsil Baddi Distt.Solan (HP) for 3 years. Pump Operator= 2 No for Three years, Chowkidar= 1No. For Three years | 1.00 | | Per Job | | |
| | | | | | Total :- | |
| Terms and conditions:- | | | | | | |
| 1 | The firm/contractor intending to participate in the tendering process should be enlisted in appropriate class with the IPH Department. | | | | | |
| 2 | The scheme shall be handed over to the successful bidder by the Department in working condition within fifteen days of award of work. | | | | | |
| 3 | All statutory deductions like GST, income tax, cess, security etc. shall be deducted as per prevailing Govt. rates in force during the currency of the contract. | | | | | |
| 4 | 2% of the payment shall be withheld by the department during the currency of contractual period. The withheld amount shall be released at the end of the contractual period after obtaining the satisfactory certification from the | | | | | |
| 5 | The pump operator deployed by the successful contractor/firm shall be ITI deploma holders having having diploma in either electrician, motor mechanic or pump operator trade. The curriculum vitae (CV's) of the pump operators and | | | | | |
| 6 | The contractor shall ensure the presence of deployed operating and watch & ward staff as per the time schedule mentioned in the contract document. The watch and ward of the Pump house, and its premises shall entirely be the | | | | | |
| 7 | The contract shall remain operative for a period of 3(three) years which can be enhanced/curtailed depending upon the performance of the contractor/form. | | | | | |
| 8 | Energy charges shall be borne by the Department. | | | | | |
| 9 | No escalation charges shall be payable during the contract period. | | | | | |
| 10 | Contractor/firm will not carry out any amendment/modification to any equipment/accessories without prior approval of th Engineer-in-Charge. | | | | | |
| 11 | The contractor/firm shall intimate in writing the Junior Engineer/Assistant Engineer-in-charge of the scheme regarding any breakdown of the pumping machinery immediately as and when it occurs for carrying out its timely repairs by | | | | | Executive Engi |
| 12 | The running bill payment shall be made quarterly on pro-rata basis after effecting the statuory and other reoveries. | | | | | IPH Division N: |

JOB NO. 10

SCHEDULE OF QUANTITY

| Name of Work :- A/R & M/O LWSS Sai in IPH Section Ramshehar, Sub-division Ramshehar in Tehsil Nalagarh, Distt. Solan (HP) (SH:- Deployment of labour for smooth Operation of pumping machinery including its watch & ward for Three years). | | | | | | Estimated Cos | 567795.00 | /-only |
|--|---|-------------|------|---------|-------|-----------------------|------------------|--------|
| | | | | | | Earnest Money | 11356.00 | /-only |
| | | | | | | Time :- Three years. | | |
| Sl. No. | Description of work | No. or Qty. | Unit | RATE | | AMOUNT | | |
| | | | | Figures | Words | Rs. | P | |
| 1.00 | Outsourcing for supply of Skilled/ unskilled labour for smooth running, repair and maintenance of LWSS & Sai as per the direction and to the entire satisfaction of Engineer-in-charge. | | | | | | | |
| | Pump Operator = 1 No for Three years. | 1.00 | Job | Per Job | | #NAME? | 0.00 | |
| | Chowkidar = 1 No for Three Years. | | | | | | | |
| Total in Figures | | | | | | | 0.00 | |
| Total in Words | | | | | | | #NAME? | |
| TERMS AND CONDITIONS: - | | | | | | | | |
| 1. The firm/contractor intending to participate in the tendering process should be enlisted in appropriate class with the IPH Department. | | | | | | | | |
| 2. The scheme shall be handed over to the successful bidder by the Department in working condition within fifteen days of award of work. | | | | | | | | |
| 3. All statutory deductions like GST, income tax, cess, security etc. shall be deducted as per prevailing Govt. rates in force during the currency of the | | | | | | | | |
| 4. 2% of the payment shall be withheld by the department during the currency of contractual period. The withheld amount shall be released at the end of the | | | | | | | | |
| 5. The pump operator deployed by the successful contractor/firm shall be ITI deploma holders having having diploma in either electrician, motor mechanic or | | | | | | | | |
| 6. The contractor shall ensure the presence of deployed operating and watch & ward staff as per the time schedule mentioned in the contract document. The | | | | | | | | |
| 7. The contract shall remain operative for a period of 3(three) years which can be enhanced/curtailed depending upon the performance of the contractor/form. | | | | | | | | |
| 8. Energy charges shall be borne by the Department. | | | | | | | | |
| 9. No escalation charges shall be payable during the contract period. | | | | | | | | |
| 10. Contractor/firm will not carry out any amendment/modification to any equipment/accessories without prior approval of th Engineer-in-Charge. | | | | | | | | |
| 11. The contractor/firm shall intimate in writing the Junior Engineer/Assistant Engineer-in-charge of the scheme regarding any breakdown of the pumping | | | | | | | | |
| 12. The running bill payment shall be made quarterly on pro-rata basis after effecting the statuory and other reoveries. | | | | | | | | |
| | | | | | | Executive Engineer, | | |
| | | | | | | I&PH Divn., Nalagarh. | | |

JOB NO. 11

| * SCHEDULE OF QUANTITY * | | | | | | |
|-------------------------------|--|------|------|---------|---------------------|----------|
| Sr.No | Description of item | Qty. | Rate | Unit | Estimated Cost Rs:- | |
| | Name of Work:- Deployment of labour for smooth Operation of pumping machinery including its watch & ward of Lift Water Supply Scheme / Tubewell Bated in Tehsil Baddi, Distt. Solan (HP) for three years. | | | | 575096 | |
| | | | | | 11502 | |
| | | | | | 3 year | |
| 1 | Deployment of Labour Skilled/Unskilled for Operation of Lift Water Supply Scheme/Tubewell Bated in Tehsil Baddi Distt.Solan (HP) for 3 years. Pump Operator= 1 No for Three years, Chowkidar= 1No. For Three years | 1.00 | | Per Job | | |
| | | | | | | Total :- |
| Terms and conditions:- | | | | | | |
| 1 | The firm/contractor intending to participate in the tendering process should be enlisted in appropriate class with the IPH Department. | | | | | |
| 2 | The scheme shall be handed over to the successful bidder by the Department in working condition within fifteen days of award of work. | | | | | |
| 3 | All statutory deductions like GST, income tax, cess, security etc. shall be deducted as per prevailing Govt. rates in force during the currency of the contract. | | | | | |
| 4 | 2% of the payment shall be withheld by the department during the currency of contractual period. The withheld amount shall be released at the end of the contractual period after obtaining the satisfactory certification from the | | | | | |
| 5 | The pump operator deployed by the successful contractor/firm shall be ITI deploma holders having having diploma in either electrician, motor mechanic or pump operator trade. The curriculum vitae (CV's) of the pump operators and | | | | | |
| 6 | The contractor shall ensure the presence of deployed operating and watch & ward staff as per the time schedule mentioned in the contract document. The watch and ward of the Pump house, and its premises shall entirely be the | | | | | |
| 7 | The contract shall remain operative for a period of 3(three) years which can be enhanced/curtailed depending upon the performance of the contractor/form. | | | | | |
| 8 | Energy charges shall be borne by the Department. | | | | | |
| 9 | No escalation charges shall be payable during the contract period. | | | | | |
| 10 | Contractor/firm will not carry out any amendment/modification to any equipment/accessories without prior approval of th Engineer-in-Charge. | | | | | |
| 11 | The contractor/firm shall intimate in writing the Junior Engineer/Assistant Engineer-in-charge of the scheme regarding any breakdown of the pumping machinery immediately as and when it occurs for carrying out its timely repairs by | | | | | |
| 12 | The running bill payment shall be made quarterly on pro-rata basis after effecting the statutory and other reoveries. | | | | | |

JOB NO. 12

| SCHEDULE OF QUANTITY | | Estimated Cost Rs.9,45,000/- | | | |
|--|---|------------------------------|--------------|-------|---------|
| NAME OF WORK:-Operation, Running and Maintenance of Sub divisional Water sample Testing Laboratory at Nalagarh in District Solan (HP) (For 3 Years) | | Earnest Money Rs .19000/- | | | |
| | | Time:- 3 year. | | | |
| Sr.No. | Description of item. | Qty | Rate | Unit. | Amount. |
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1 | Operation, Running and Maintenance of Sub divisional water sample testing laboratory at Nalagarh for three years by providing skilled/ unskilled operating staff and good quality materials such as chemicals, reagents,glass-wares etc. as required for testing of water sample for Physical, Chemical and Bacteriological tests, complete process in all respect i.e uploading of test results on website regularly as per the direction and satisfaction of Engineer-in-charge as per the conditions of the contract and special terms & condition attached as per Annexure-A | | | | |
| a) | Physical & Chemical Test for all 17 parameter- i) Temperature ii) Colour iii) Odour iv) Taste v) Turbidity vi) pH vii) TDS/Elect. Conductivity viii) Total Alkalinity ix)Chloride x) Fluoride xii) Nitrate xii) Sulphate Xiii) Iron xiv) Manganese xv) Total Hardness xvi) Total Arsenic xvii) Free Residual Chlorine | 1000 x3=3000 | | | |
| | | Nos | | | |
| b) | Bacteriological Test- i) Total Coliform ii) E.coli/Thermotolerant Coliform: Test if total coliform are found | 2000 x3 =6000 | | | |
| | | Nos | | | |
| | | | Total | | |
| Special terms and conditions:- | | | | | |
| 1 | In order to give true picture of water tests and considering the importance of drinking water quality, the Contractor/Firm is expected to do entire job very carefully. | | | | |
| 2 | The Contractor/Firm bidding for the job must have previous experience of Operation and maintenance of the water testing laboratory (Not less than 500 water samples test/month). | | | | |
| 3 | The Contractor/Firm shall have to employ qualified and well experienced Chemist/Assistant Chemist. The desirable qualification for laboratory staff shall be as per Uniform Drinking Water Quality Monitoring Protocol 2013 i.e.. Assistant Chemist-Graduation in Science with Chemistry Microbiologist/Bacteriologist-Graduation in Science with Biology Data Entry Operator:- Class XII with skills in MS Office and internet operation | | | | |
| 4 | Before award of work, the Name, Qualification details, correspondence addresss, complete resume of the engaged persons alongwith attested photocopies (also originals to be returned) of qualification documents/certificates from recognized institutes shall be submitted to departmental screening committee which will decide the selection of staff after conducting interview and candidates if found suitable by the committee, the work will be awarded In case candidate is not found suitable then the Contractor/Firm shall produce other candidates for interview.However candidates can be sponsored maximum three times failing which the work will not be awarded to the firm & earnest money shall be forfeited. | | | | |
| 5 | The person employed by the Firm shall be his establishment only and DWSM/Department shall not be bound to regularize their services. | | | | |
| 6 | The candidate to be deployed should be free from any kind of communicable disease and before joining, the candidate shall submit the Certificatge of Medical fitness issued by the Authorized Medical Attendant/Medical Officer. | | | | |
| 7 | The Contractor/Firms shall follow rrelevant BIS codes for the testing of water samples for Physical, Chemical and Bacteriological tests in all respect. | | | | |
| 8 | The contractor/Firm shall be responsible for payment of minimum wages & Monthly payments, insurance, agreement,medicare cover, accident cover to the employed staff as per prevailing labour law and latest instructions of Government/Department. | | | | |
| 9 | During working hours proper dress code shall be maintained in the laboratory. The lab staff shall attach batch/identity cards displaying the name & designation. | | | | |
| 10 | The Contractor/Firm shall be responsible for proper handling of Lab equipments, reagents & chemicals etc. | | | | |
| 11 | The Contractor/Firm shall be responsible for any accident/ losses caused due to negligence & a First Aid Box shall also be provided by the Contractor/Firm in the laboratory. | | | | |

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|----|---|--|--|--|--|--|
| 12 | The Contractor/Firm shall be panelized for any breakage or any damage of the equipments of the lab and shall replace the same with new one and decision of the Engineer-in-charge shall be final in this regard. | | | | | |
| 13 | The necessary materials and chemicals required for the testing of samples shall be provided by the Contractor /Firm at his cost. | | | | | |
| 14 | The Chemicals to be used for water quality testing should be of Laboratory Reagent (LR) or Analytical Reagent (AR) grade. Contractor/Firm shall keep the inventory of all the used material and chemicals. The inventory shall be maintained in registers. | | | | | |
| 15 | The Contractor/Firms shall keep the proper record of all tested water sample and shall submit the consolidated report to the Assistant Engineer, in- Charge of the laboratory monthly. The firm shall also bring to the notice of the Engineer-in-Charge the details of failed samples daily. | | | | | |
| 16 | The Contractor/Firm shall report and suggest the measures to be taken for the disinfection of the water, as found anything unhygienic for human consumption. | | | | | |
| 17 | The inventory of all the glass were shall be maintained by the Contractor/Firm. | | | | | |
| 18 | All sample collecting material including those which are to be returned and reused should be fit for sampling. Cleaning and sterilization of sample collecting material shall be as per standard procedure. | | | | | |
| 19 | The Electricity charges will be borne by the department. | | | | | |
| 20 | The payment shall be made on Quarterly basis in equal installments. | | | | | |
| 21 | All the water sample reached in the lab have to be tested. Minimum 3000 samples out of which minimum 2/3 rd i.e 2000 sample shall be for Bacteriological analysis have to be tested in a year and monthly report alongwith photocopy of register shall be submitted through Assistant Engineer to Divisional office. | | | | | |
| 22 | If more than 3000 samples are tested in the lab the Contractor/Firm shall be paid extra for excess sample at the approved rate. A penalty of double the rate awarded shall be levied if samples are not tested inspite of its receipt in lab. | | | | | |
| 23 | Each source shall be tested twice a year i.e pre monsoon and post monsoon for bacteriological analysis and once a year for chemical analysis. Therefore contractor/firm shall be responsible for ensuring the sampling schedule of sources and if any, shortcoming is noticed in above mentioned schedule by the contractor/firm, it should be brought to the notice of concerned Executive Engineer. Also ensure that sources from every habitation falling under jurisdiction of lab shall be tested. | | | | | |
| 24 | The list of parameter to be tested at sub divisional level lab is as under:- | | | | | |
| | i) Temperature | | | | | |
| | ii) Colour | | | | | |
| | iii) Odour | | | | | |
| | iv) Taste | | | | | |
| | v) Turbidity | | | | | |
| | vi) PH | | | | | |
| | vii) TDS/Elect. Conductivity | | | | | |
| | viii) Total Alkalinity | | | | | |
| | ix) Chloride | | | | | |
| | x) Fluoride | | | | | |
| | xi) Nitrate | | | | | |
| | xii) Sulphate | | | | | |
| | xiii) Iron | | | | | |
| | xiv) Manganese | | | | | |
| | xv) Total Hardness | | | | | |
| | xvi) Total Arsenic-Discrete testing shall be done. | | | | | |
| | xvii) Free Residual chlorine | | | | | |
| | xviii) Total Coliform | | | | | |
| | xix) E.coli/Thermotolerant Coliform | | | | | |
| 25 | The contractor/Firm shall be responsible for cleaning of Laboratory during working hours. | | | | | |
| 26 | The contractor/Firm shall keep the lab operational on all working days. If any person from lab staff goes on leave, the alternate staff shall be provided in lab by the contractor/Firm for the respective job. Even then if it remains non- operational a penalty of Rs. 500/- per day shall be levied. | | | | | |
| 27 | Online entry of the samples tested on a particular day shall be made within next 24 hours on the format available on web site i.e www.indiawater.gov.in after getting the test report signed from either consultant (chemist) or concerned JE incharge or concerned AE incharge of the laboratory. | | | | | |
| 28 | The firm shall hand over the laboratory including all equipments, glass wares, chemicals, reagents to the department after expiry of the contract in good conditions. | | | | | |

