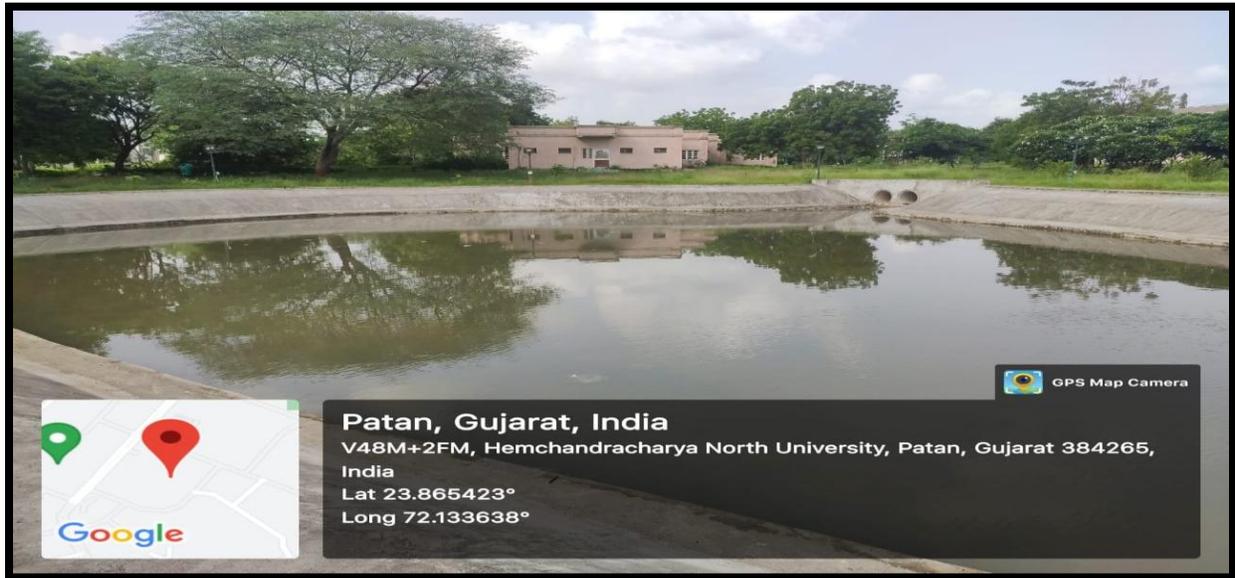


## **Rain Water Harvesting**

Rain water within the university campus is collected and channelized in to an artificial lake in the campus near Department of Hospital Management with capacity of storage is 2990615 liters approximately. Ground water level gets recharge through it gradually throughout the year.



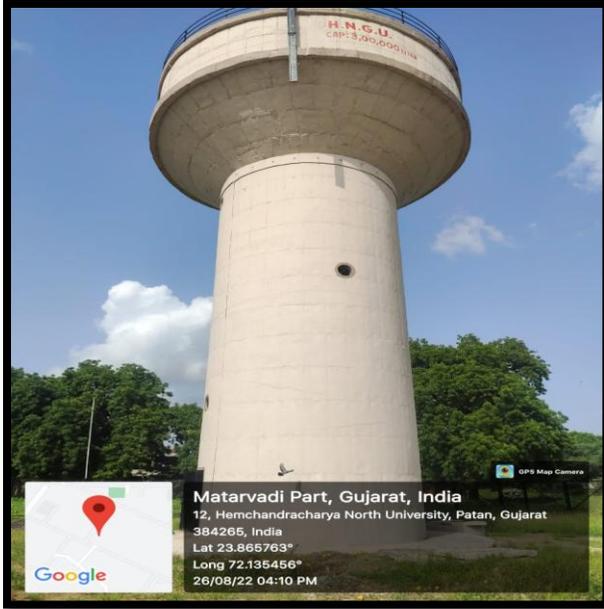
## **Waste Water Recycling**

Water recycling plant is not available in the campus.

## **Maintenance of Water Bodies**

Construction of tanks:

Over Head water tank of 3.00 Lac Capacity & under Ground water tank of 6.00 Lac liters & 2.00 Lac litter is constructed. All the Buildings of University Campus has Under Ground & over Head Water Tank for proper water management system in University.



**Underground Water Storage 6 Lac Litre**

**Head of Account :-****NOTIS**

(Reference of Gujarat P.W. manual)

Chapter V. Paras 328,331,341, to344)

1. Wherever there is an entry in column 9 on the basis of actual measurement the whole of the amount previously paid without detailed measurement should be adjected by a minus entry in column equivalent to the amount shown in column 1 so that the "Total-up-to-date" in Column may be come nil".

2. When there are two or more entries in column 9 relating to each sub-head of estimate they should in the case of works the accounts of which are kept by sub-heads be totalled and the total recorded in column 10 for posting the work abstract.

**Account of Secured Advance**

3. Entries in Column 2 show the difference between Column 1 and 2 plus quantities if any brought to side against which a further advance has been authorised, this entry being prefixed by the sign.

4. Entries in Column 8 shown the money values of the total quantities out standing as per Column3.

**Memorandum of Payment**

5. The Figure against(K) should be tested to see that is agrees with the total of items 7 and 8.

6. If the net amount to be paid is less than Rs. 10 and it cannot be included in a cheque, the payment should be made in cash the pay order being altered suitably and the alterations attested by date initials.

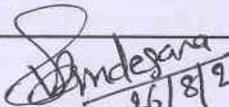
7. The payee's acknowledgement should be for the gross amount paid as per item 8 (i.e.a+b+c)

8. Payment should be attasted by some known person when the payee's acknowledgement is given by a mark seal or thumb impression.

Transactions of Road side material are entered in the statement of receipts issues and balances of Road metal.

Clerk

Accountent

  
26/8/2021

Civil Engineer

Hem.North Gujarat University

State Government Renovation Grant :2018-19

DIVISION - Hem.North Gujarat University

SUB-DIVISION -

RUNNING ACCOUNT BILL -B

Cash book VOUCHER No.

For

200

Name of contractor or supplier- Jayantisuper

**Construction PVT LTD****Name of Work - Constructing ESR, Under ground water tank & Water supply pipe line**

Purpose of Supply- Work Done

**Work order No. :- Estate/Work order/Over Head Water Tank/288/2020**

Contractor's Ledger Folio No. \_\_\_\_\_

Serial No. of this Bill. **5th & FINAL. Bill!**No and date of last bill for this work-4th R.A Bill  
Dt.10/06/2021Accepted by the **Registrar H.N.G.U,Patan**

Date of wried order to commence work : 01/06/2020

Date of completion as stipulated in the Contract :31/06/2021

Extention granted up to \_\_\_\_\_

Vide \_\_\_\_\_

No. \_\_\_\_\_ Date \_\_\_\_\_

Date of actual completion of work :- Dt.26/08/2021

Deputy Engineer

Hem.North Gujarat University

HEM. NORTH GUJARAT UNIVERSITY

## MEASUREMENT BOOK

NAME OF WORK : CONSTRUCTING ESR, UNDER GROUND WATER TANK &amp; WATER SUPPLY PIPE LINE

NAME OF CONTRACTOR : JAYANTISUPER CONSTRUCTION PVT LTD

BILL NO: 5th &amp; FINAL BILL

| Item No. | Description  | Rate    | Unit | P.No. | Qty.     | Amount     |
|----------|--|---------|------|-------|----------|------------|
| 1        | Excavation for foundation upto 1.5mt depth             |         |      | 36    | 7387.53  |            |
|          |  |         |      | 40    | 262.65   | 1160944.81 |
|          |  | 147.85  | Cmt  |       | 7650.18  | 1131079.11 |
| 2        | Excavation for foundation upto 1.5mt to 3.0 mt depth   | 158.94  | Cmt  | 36    | 825.96   | 131278.08  |
| 3        | Excavation for foundation upto 3.0mt to 5.0 mt depth   | 166.34  | Cmt  | 36    | 82.60    | 13739.68   |
| 4        | P & Laying Rubble soling 23cm thick                    | 1384.71 | Cmt  | 36    | 34.23    | 47398.62   |
| 5        | Filling in plinth with sand under floor                | 402.18  | Cmt  | 36    | 165.19   | 66436.11   |
| 6        | Filling excavated stuff in trenches,plinth             | 77.23   | Cmt  | 36    | 7104.07  | 548647.33  |
| 7        | P & Laying CC 1:2:4 in foundation & plinth             |         |      | 36    | 110.98   |            |
|          |  |         |      | 40    | 6.84     |            |
|          |  | 3099.75 | Cmt  |       | 117.82   | 365212.55  |
| 8        | P&Casting in situ CCM-300 Mix in footing or foundation |         |      | 36    | 188.38   |            |
|          |  |         |      | 40    | 26.60    |            |
|          |  | 5874.41 | Cmt  |       | 214.98   | 1262880.66 |
| 9        | P&Casting in situ CCM-300 Mix for column               | 9923.25 | Cmt  | 36    | 8.04     | 79782.93   |
| 10       | P&Casting in situ CCM-300 Mix for Beam                 |         |      |       |          |            |
|          | Full Rate is given                                     | 8987.99 | Cmt  | 36    | 32.68    | 293727.51  |
| 11       | P&Casting in situ CCM-300 Mix for RCC Wall             | 8904.16 | Cmt  | 36    | 185.06   | 1647803.85 |
| 12       | P & Casting in situ CCM-300 Mix for RCC slab           | 8679.94 | Cmt  | 36    | 64.55    | 560290.13  |
| 13       | S,Cutting,Bending,Binding & placing TMT Bar            | 68.99   | Kg   | 36    | 72013.80 | 4968232.06 |
| 20       | Brickwork in cm 1:6 upto plinth                        | 2879.87 | Cmt  | 41    | 90.02    | 259245.90  |
| 21       | Providing 15mm thick cement plaster in cm 1:4          |         |      | 36    | 74.06    |            |
|          |  |         |      | 41    | 514.91   |            |
|          |  | 128.06  | Sqmt |       | 588.97   | 75423.50   |
| 24       | Providing 20mm thick water proofing cement plaster     |         |      | 36    | 723.66   |            |
|          |  |         |      | 41    | 49.50    |            |
|          | Full Rate is given                                     | 166.65  | Sqmt |       | 773.16   | 128847.11  |
| 25       | P & Laying Colour glazed ties for skirting             | 899.7   | Sqmt | 36    | 260.04   | 233957.99  |
| 26       | P & Laying Cement concrete flooring 1:2:4              | 181.8   | Sqmt | 36    | 504.48   | 91714.46   |
| 27       | Providing Cement vata in cm 1:1                        | 17.76   | Rmt  | 36    | 78.80    | 1399.49    |
| 29       | P,Laying & Fixing 200mm wide PVC Water stop            | 414.1   | Rmt  | 36    | 338.65   | 140234.97  |
| 30       | P & Fixing steel work welded in built up section       | 79.79   | kg   | 41    | 407.00   | 32474.53   |
| 31       | F,S & Fixing S.S Railling                              |         |      | 36    | 105.90   |            |
|          |  |         |      | 41    | 45.40    |            |
|          | Full Rate is given                                     | 3418.85 | Rmt  |       | 151.30   | 517272.01  |
| 32       | P & Fixing iron step 500 x 150 x 22.5mm                | 180.21  | No.  | 37    | 20.00    | 3604.20    |

Only Mathematically Verified



*[Signature]*  
Civil Engineer

Hem. North Gujarat University

*[Signature]*  
Accountant

Hem. North Gujarat University

*[Signature]*  
Chief Accountant Officer

Hem. North Gujarat University

HEM. NORTH GUJARAT UNIVERSITY

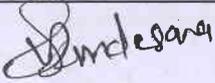
## MEASUREMENT BOOK

NAME OF WORK : CONSTRUCTING ESR, UNDER GROUND WATER TANK &amp; WATER SUPPLY PIPE LINE

NAME OF CONTRACTOR : JAYANTISUPER CONSTRUCTION PVT LTD

BILL NO: 5th &amp; FINAL BILL

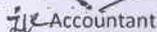
| Item No. | Description                                     | Rate    | Unit | P.No. | Qty.    |   | Amount     |
|----------|---|---------|------|-------|---------|---|------------|
| 39       | P & Erecting 5HP 3 Phase Mono block pump        |         |      | 37    | 1.00    | ✓ |            |
|          |   |         |      | 42    | 1.00    | ✓ |            |
|          | Full Rate is given                              | 786184  | No.  |       | 2.00    | ✓ | 1572368.00 |
| 41       | S & Erecting Approved make motor control panel  |         |      | 37    | 1.00    | ✓ |            |
|          |   |         |      | 42    | 3.00    | ✓ |            |
|          | Full Rate is given                              | 9342    | No.  |       | 4.00    | ✓ | 37368.00   |
| 42       | P & Supplying G.I.Pipes with couplings 150mm    |         |      | 37    | 38.00   | ✓ |            |
|          |   |         |      | 42    | 24.00   | ✓ |            |
|          | Full Rate is given                              | 1224.12 | Rmt  |       | 62.00   | ✓ | 75895.44   |
| 43       | P & Supplying G.I.Pipes with couplings 80mm     |         |      | 37    | 47.00   | ✓ |            |
|          |   |         |      | 42    | 161.00  | ✓ |            |
|          | Full Rate is given                              | 540.35  | Rmt  |       | 208.00  | ✓ | 112392.80  |
| 44       | P & Supplying ISI Mark Rigid PVC Pipe 110mm dia |         |      | 37    | 4773.63 | ✓ |            |
|          |   |         |      | 42    | 451.00  | ✓ |            |
|          | Full Rate is given                              | 306.03  | Rmt  |       | 5224.63 | ✓ | 1598893.52 |
| 45       | P & Supplying ISI Mark Rigid PVC Pipe 90mm dia  |         |      | 37    | 6116.60 | ✓ |            |
|          |   |         |      | 42    | 880.00  | ✓ |            |
|          | Full Rate is given                              | 203.01  | Rmt  |       | 6996.60 | ✓ | 1420379.77 |
| 46       | P & Supplying PVC Copuler 110mm dia             |         |      |       |         | ✓ |            |
|          | Full Rate is given                              | 155.54  | No.  | 37    | 47.00   | ✓ | 7310.38    |
| 47       | P & Supplying PVC Copuler 90mm dia              |         |      |       |         | ✓ |            |
|          | Full Rate is given                              | 87.87   | No.  | 37    | 89.00   | ✓ | 7820.43    |
| 49       | P & Supplying PVC Tee 90mm dia                  |         |      |       |         | ✓ |            |
|          | Full Rate is given                              | 214.12  | No.  | 37    | 47.00   | ✓ | 10063.64   |
| 50       | P & Supplying PVC Tee 110mm dia                 |         |      |       |         | ✓ |            |
|          | Full Rate is given                              | 268.66  | No.  | 37    | 33.00   | ✓ | 8865.78    |
| 51       | P & Supplying PVC Elbow 90mm dia                |         |      | 37    | 136.00  | ✓ |            |
|          |   |         |      | 42    | 46.00   | ✓ |            |
|          | Full Rate is given                              | 142.41  | No.  |       | 182.00  | ✓ | 25918.62   |
| 52       | P & Supplying PVC Elbow 110mm dia               |         |      |       |         | ✓ |            |
|          | Full Rate is given                              | 236.34  | No.  | 37    | 46.00   | ✓ | 10871.64   |
| 53       | P & Supplying PVC Reducer 110mm x 90mm          |         |      |       |         | ✓ |            |
|          | Full Rate is given                              | 124.23  | No.  | 37    | 42.00   | ✓ | 5217.66    |
| 59       | P & Supplying PVC End cap 110mm dia             |         |      |       |         | ✓ |            |
|          | Full Rate is given                              | 111.1   | No.  | 37    | 2.00    | ✓ | 222.20     |
| 60       | P & Supplying Ball valve 90mm dia               | 2525    | No.  | 43    | 40.00   | ✓ | 101000.00  |



Civil Engineer

Hem. North Gujarat University

Only Mathematically Verified



Hem. North Gujarat University



Chief Accountant Officer

Hem. North Gujarat University



HEM. NORTH GUJARAT UNIVERSITY

## MEASUREMENT BOOK

NAME OF WORK : CONSTRUCTING ESR, UNDER GROUND WATER TANK &amp; WATER SUPPLY PIPE LINE

NAME OF CONTRACTOR : JAYANTISUPER CONSTRUCTION PVT LTD

BILL NO: 5th &amp; FINAL BILL

| Item No. | Description  | Rate        | Unit | P.No. | Qty.    | Amount      |
|----------|--|-------------|------|-------|---------|-------------|
| 61       | Lowering ,L.Fixing & Testing PVC Pipe 90mm dia     |             |      |       |         |             |
|          | Full Rate is given                                 | 18.18       | Rmt  | 37    | 3671.20 | 66742.42    |
| 62       | Lowering ,L.Fixing & Testing PVC Pipe 110mm dia    |             |      |       |         |             |
|          | Full Rate is given                                 | 20.2        | Rmt  | 37    | 3022.22 | 61048.84    |
| 63       | Lowering ,L.Fixing & Testing G.I. Pipe 80mm dia    |             |      | 38    | 47.00   |             |
|          |  |             |      | 43    | 23.00   |             |
|          |  | 29.29       | Rmt  |       | 70.00   | 2050.30     |
| 64       | Lowering ,L.Fixing & Testing G.I. Pipe 150mm dia   |             |      | 38    | 38.00   |             |
|          |  |             |      | 43    | 24.00   |             |
|          |  | 53.53       | Rmt  |       | 62.00   | 3318.86     |
| 65       | Drilling the horizontal bore hole                  |             |      | 38    | 566.50  |             |
|          |  |             |      | 44    | 121.10  |             |
|          | Full Rate is given                                 | 1470.56     | Rmt  |       | 687.60  | 1011157.06  |
| 66       | P & Supplying ISI Mark C.I. Sluice valve 150mm dia |             |      |       |         |             |
|          | Full Rate is given                                 | 6615.5      | No.  | 38    | 2.00    | 13231.00    |
| 67       | P & Supplying ISI Mark C.I. Sluice valve 80mm dia  |             |      |       |         |             |
|          | Full Rate is given                                 | 2999.7      | No.  | 38    | 16.00   | 47995.20    |
| 68       | P & Fixing Copper lightning arrestor copper        | 902.94      | Kg   | 44    | 49.36   | 44569.12    |
| 69       | Providing C.I. Cowl type ventilator                | 65.65       | Kg   | 38    | 114.40  | 7510.36     |
| 71       | P & Supplying C.I. Air valve 100mm dia             |             |      |       |         |             |
|          | Full Rate is given                                 | 5957.99     | No.  | 38    | 5.00    | 29789.95    |
|          |  | 18912549.46 |      |       |         | 18882683.76 |
|          |  | 2647756.92  |      |       |         | 2643575.73  |
|          |  | 16264792.54 |      |       |         | 16239108.03 |
|          | <b>EXTRA ITEM</b>                                  |             |      |       |         |             |
| 1.1      | P & Fixing Chenlink fencing                        | 2300        | Sqmt | 38    | 461.39  | 1061197.00  |
| 1        | P & Laying SCH UPVC Pipe 25mm dia                  |             |      | 38    | 132.50  |             |
|          |  |             |      | 44    | 100.00  |             |
|          | Full Rate is given                                 | 127.26      | Rmt  |       | 232.50  | 29587.95    |
| 2        | P & Laying SCH UPVC Pipe 50mm dia                  |             |      | 38    | 237.00  |             |
|          |  |             |      | 44    | 282.00  |             |
|          | Full Rate is given                                 | 303         | Rmt  |       | 519.00  | 157257.00   |
| 3        | P & Fixing C.I. Sluice valve 110mm dia             |             |      |       |         |             |
|          | Full Rate is given                                 | 4029.8      | No.  | 38    | 14.00   | 56417.20    |
| 4        | P & Fixing Ball valve 25mm dia                     |             |      | 38    | 55.00   |             |
|          |  |             |      | 44    | 2.00    |             |
|          | Full Rate is given                                 | 858.5       | No.  |       | 57.00   | 48934.50    |

Civil Engineer

Hem. North Gujarat University

Only Mathematically Verified  
The Accountant

Hem. North Gujarat University

Chief Accountant Officer

Hem. North Gujarat University



HEM. NORTH GUJARAT UNIVERSITY

## MEASUREMENT BOOK

NAME OF WORK : CONSTRUCTING ESR, UNDER GROUND WATER TANK &amp; WATER SUPPLY PIPE LINE

NAME OF CONTRACTOR : JAYANTISUPER CONSTRUCTION PVT LTD

BILL NO: 5th &amp; FINAL BILL

| Item No. | Description                                   | Rate        | Unit | P.No.                | Qty.    |        | Amount      |
|----------|---|-------------|------|----------------------|---------|--------|-------------|
| 5        | S & Fixing Water marking point                |             |      | 38                   | 250.00  |        | 87112.50    |
|          | Full Rate is given                            | 252.5       | No.  | 44                   | 250.00  | 95.00  | 63125.00    |
| 6        | P & Applying Apoxy paint for RCC ESR,SUMP     | 101         | Sqmt | 45                   | 1242.58 | 345.00 | 125500.58   |
| 7        | P & Supplying PVC End cap 90mm size           | 88          | No.  | 45                   | 15.00   |        | 1320.00     |
| 8        | S & Erecting M.S Falnge 150mm                 | 350         | No.  | 45                   | 20.00   |        | 7000.00     |
| 9        | S & Erecting M.S Falnge 80mm                  | 220         | No.  | 45                   | 30.00   |        | 6600.00     |
| 10       | S & Erecting Duck foot bend 150mm dia         | 4315        | No.  | 45                   | 2.00    |        | 8630.00     |
| 11       | S & Erecting Duck foot bend 80mm dia          | 2450        | No.  | 45                   | 5.00    |        | 12250.00    |
| 12       | S & Erecting C.I. Heavy duty flange 80mm dia  | 200         | No.  | 46                   | 76.00   |        | 15200.00    |
| 13       | S & Erecting C.I. Heavy duty flange 100mm dia | 275         | No.  | 46                   | 26.00   |        | 7150.00     |
| 14       | S & Erecting C.I. Heavy duty flange 150mm dia | 340         | No.  | 46                   | 4.00    |        | 1360.00     |
| 15       | P & Supplying PVC Tail piece 90mm             | 154         | No.  | 46                   | 32.00   |        | 4928.00     |
| 16       | P & Supplying PVC Tail piece 110mm            | 209         | No.  | 47                   | 18.00   |        | 3762.00     |
| 18       | M,S & Delivery of C.I. Detachable joint 80mm  | 282         | No.  | 47                   | 32.00   |        | 9024.00     |
| 19       | Core cutter hole                              | 800         | No.  | 47                   | 44.00   |        | 35200.00    |
| 20       | P & Fixing Reinforcement bar                  | 300         | No.  | 47                   | 40.00   |        | 12000.00    |
| 21       | P & Supplying ISI C.I Butterfly valve 100mm   | 2870        | No.  | 47                   | 2.00    |        | 5740.00     |
| 23       | L.,L & Jointing All type of valve             | 427         | No.  | 47                   | 20.00   |        | 8540.00     |
| 25       | P & Supplying ISI C.I Reflux valve 80mm       | 2790        | No.  | 47                   | 4.00    |        | 11160.00    |
| 26       | S & Erecting Unarmoured cable 3 core 4.0 sqmm | 180         | Rmt  | 47                   | 200.00  |        | 36000.00    |
| 27       | Job work bore connection                      | 2500        | No.  | 48                   | 2.00    |        | 5000.00     |
| 28       | 110*90mm RFTA                                 | 112         | No.  | 48                   | 57.00   | 58.00  | 6384.00     |
| 29       | 50mm MT Outside Atavli                        | 55          | No.  | 48                   | 57.00   | 58.00  | 3135.00     |
| 30       | 50mm FT UPVC                                  | 48          | No.  | 49                   | 57.00   | 58.00  | 2736.00     |
| 31       | 50*25 mm Bushing UPVC                         | 52          | No.  | 49                   | 57.00   | 58.00  | 2964.00     |
| 32       | P & Laying 25mm UPVC Brass FT                 | 185         | No.  | 50                   | 57.00   | 58.00  | 10545.00    |
| 33       | P & Laying 25*15mm G.I. Bushing               | 20          | No.  | 50                   | 57.00   | 58.00  | 1140.00     |
| 34       | P & Laying 15mm dia 5" long G.I. Nipple       | 35          | No.  | 50                   | 57.00   | 58.00  | 1995.00     |
| 35       | P & Laying 160mm PVC Pipe                     | 565.6       | Rmt  | 50                   | 78.00   |        | 44116.80    |
| 36       | P & Laying G.I Pipe 100mm                     | 1020        | Rmt  | 51                   | 59.00   |        | 60180.00    |
|          |   | 1890573.53  |      | B =                  |         |        | 1866079.03  |
|          |   | 18155366.07 |      | Total Amount A + B = |         |        | 18105187.06 |
|          |   | 18155366.00 |      |                      | Say Rs. |        | 18105187.00 |

*J. Desai*  
Civil Engineer

Hem. North Gujarat University

Only Mathematically Verified

*J. Desai*  
Accountant

Hem. North Gujarat University

*J. Desai*  
Chief Accountant Officer

Hem. North Gujarat University



HEM. NORTH GUJARAT UNIVERSITY

## MEASUREMENT BOOK

NAME OF WORK : CONSTRUCTING ESR, UNDER GROUND WATER TANK &amp; WATER SUPPLY PIPE LINE

NAME OF CONTRACTOR : JAYANTISUPER CONSTRUCTION PVT LTD

BILL NO: 5th &amp; FINAL BILL

| Item No. | Description  | Rate | Unit | P.No. | Qty. | Amount  |
|----------|--|------|------|-------|------|---|
|          | Bill No:- 5th & FINAL Bill   |      |      |       |      |   |
|          |  |      |      |       |      | 18155366.00   |
| 1        | Amount of work done  |      |      |       |      | (18105187.00)                                       |
| 2        | Payment done to contractor upto date   |      |      |       |      | 15282870.00   |
|          |  |      |      |       |      | 2872496.00  |
| 3        | Net Payment done to contractor   |      |      |       |      | (2822317.00)  |
|          | Less Recovery  |      |      |       |      |   |
|          | A: Testing Fees @ 1%   |      |      |       |      | - 28730.00 (-28230.00)                              |
|          | B: Water charge 0.5%   |      |      |       |      | - 14370.00 (-14120.00)                              |
|          | C: Lebour cess @ 1%  |      |      |       |      | - 28730.00 (-28230.00)                              |
|          | D: Incometex @ 2.00%   |      |      |       |      | - 57450.00 -56450.00                                |
|          |  |      |      |       |      | Total deduction - 129280.00 (-127030.00)            |
|          |  |      |      |       |      | Net amount of payble to contractor Rs. (2695287.00) |
|          |  |      |      |       |      | 2743216.00  |
|          | (₹ 28,72,496/- Twenty Eight Lacs seventy two thousand four hundred ninety six only.) |      |      |       |      |   |
|          | <p>6/10/21</p> <p>26/08/2021</p> <p>6/10</p>   |      |      |       |      |   |
|          | Civil Engineer   |      |      |       |      | D.E.  |
|          | Hem. North Gujarat University  |      |      |       |      | Hem. North Gujarat University                       |

Civil Engineer  
Hem. North Gujarat University

Accountant  
Hem. North Gujarat University

Chief Accountant Officer  
Hem. North Gujarat University



**Head of Account :-****NOTIS**

(Refefence of Gujarat P.W. manual)  
Chapter V. Paras 328,331,341, to344)

1. Wherever there is an entry in column 9 on the basis of actual mesurement the whole of the amount previously paid without detailed mesurement should be adjected by a minus entry in column equivalent to the amount shown in column 1 so that the "Total-up-to-date" in Column may be come nil".

2. When there are two or more entries in column 9 railating to each sub-head of estimate they should in the case of works the accounts of which are kept by sub-heads be totalled and the total recorded in column 10 for posting the work abstract.

**Account of Sercured Advance**

3. Entries in Column 2 show the difference between Co. 1 and 2 plus quantities if any brought to side against which a further advance has been authorised, this entry being prefixed by the sign.

4. Entries in Clumn 8 shown the money values of the total quantities out standing as per Column3.

**Memorandum of Payment**

5. The Figure against(K) should be tested to see that is agrees with the total of items 7 and 8.

6. If the net amount to be paid is less than Rs. 10 and it cannot be included in a cheque, the payment should be made in cash the pay order being aitered suitably and the alterations attested by date initials.

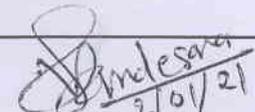
7. The payee's acknowledgement should be for the gross amount paid as per item 8 (i.e. a+b+c)

8. Payment should be attasted by some known person when the payee's acknowledgement is given by a mark seal or thumb impression.

Transactions of Road side material are entered in the statement of receipts issues and balances of Road metal.

Clerk

Accountent

  
21/01/21  
Civil Engineer

Hem.North Gujarat University

State Government Renovation Grant 2016-17

**DIVISION - Hem.North Gujarat University**  
**SUB-DIVISION -**

**RUNNING ACCOUNT BILL -B**

Cash book VOUCHER No.

For

200

Name of contractor or supplier- **Krishha Construction**Name of Work - **Strom water Facility**

Purpose of Supply- Work Done

**Work order No. :- Estate/Work order/Strom eater Facility/5394/2019**

Contractor's Ledger Folio No.

Serial No. of this Bill. **7th & FINAL Bill**No and date of last bill for this work- **6th R.A.Bill Dt.01/12/2020**Accepted by the **Registrar H.N.G.U,Patan**Date of writed order to commence work : **24/09/2019**Date of completion as stipulated in the Contract : **23/08/2020**Extention granted up to **Dt.23/02/2021**

Vide

No. \_\_\_\_\_ Date \_\_\_\_\_

Date of actual completion of work :- **Dt. 02-01-2021**

Deputy Engineer

Hem.North Gujarat University

HEM. NORTH GUJARAT UNIVERSITY

## MEASUREMENT BOOK

NAME OF WORK : STROM WATER FACILITY

NAME OF CONTRACTOR : KRISHA CONSTRUCTION

BILL NO: 7th &amp; FINAL BILL

| Item No. | Description                                    | Rate     | Unit | P.No. | Qty.      | Amount     |
|----------|--|----------|------|-------|-----------|------------|
| 1        | Drilling of 250mm dia pilot bore hole          | 662      | Mtr  | 37    | 1620.00   | 1072440.00 |
| 2        | Conducting electrologging test                 | 14000    | Job  | 37    | 9.00      | 126000.00  |
| 3        | Reaming of 250mm dia to 450mm dia bore hole    | 305      | Mtr  | 37    | 1620.00   | 494100.00  |
| 4        | Pump test with submersible pump                | 60000    | Job  | 37    | 9.00      | 540000.00  |
| 5        | Supplying of EWR Pipes of 200mm dia            | 2136     | Mtr  | 37    | 1647.00   | 3517992.00 |
| 6        | Slotting of EWR Pipes                          |          |      | 37    | 365870.00 |            |
|          |  |          |      | 41    | 13950.00  |            |
|          |  | 0.2271   | Slot |       | 379820.00 | 86257.12   |
| 7        | Supplying of Best quality sevaliya gravel      | 2488     | Cmt  | 37    | 203.20    | 505561.60  |
| 8        | Supply of clamps made of M.S Plate             | 1914     | Pair | 37    | 9.00      | 17226.00   |
| 9        | Bore plug with M.S Plate                       | 909      | No.  | 37    | 9.00      | 8181.00    |
| 10       | M.S Ball plug with Medium class pipe           | 988      | No.  | 37    | 9.00      | 8892.00    |
| 13       | P & Laying ISI Mark Rigid PVC Pipe 110mm dia   |          |      | 37    | 2461.69   |            |
|          |  |          |      | 41    | 15.00     |            |
|          | Full Rate is given                             | 358.55   | Rmt  |       | 2476.69   | 888017.20  |
| 14       | P & Laying ISI Mark Rigid PVC Pipe 150mm dia   |          |      | 37    | 1156.45   |            |
|          |  |          |      | 41    | 8.21      |            |
|          | Full Rate is given                             | 595.9    | Rmt  |       | 1164.66   | 694020.89  |
| 15       | Constructing Brick masonry chamber 455 x 610   |          |      |       |           |            |
|          | Full Rate is given                             | 2641.1   | No.  | 37    | 153.00    | 404088.30  |
| 16       | Constructing Brick masonry chamber 600 x 850   | 5252     | No.  | 37    | 23.00     | 120796.00  |
| 17       | Constructing Brick masonry chamber 3000 x 1500 |          |      |       |           |            |
|          | Full Rate is given                             | 49237.5  | No.  | 37    | 19.00     | 935512.50  |
| 18       | Providing pit 2.00 x 2.00 mt inside dimation   |          |      |       |           |            |
|          | F.R = 52520.00 R.R = 50000.00                  | 50000    | No.  | 37    | 9.00      | 450000.00  |
| 19       | Demolition RCC Work                            |          |      | 37    | 15.18     |            |
|          |  |          |      | 41    | 11.25     |            |
|          |  | 653.96   | Cmt  |       | 26.43     | 17284.16   |
| 20       | P & Laying CC 1:2:4 in foundation & plinth     |          |      | 37    | 289.06    |            |
|          |  |          |      | 41    | 27.14     |            |
|          | Full Rate is given                             | 3099.75  | Cmt  |       | 316.20    | 980140.95  |
| 22       | Constructing Septic tank                       | 39678.86 | No.  | 37    | 4.00      | 158715.44  |
| 23       | Constructing Sock pit                          |          |      | 38    | 9.00      |            |
|          |  |          |      | 41    | 2.00      |            |
|          | Full Rate is given                             | 70698.99 | No.  |       | 11.00     | 777688.89  |

*[Signature]*

Civil Engineer

Hem. North Gujarat University

Only Mathematically Verified

*[Signature]*  
11/01/21.  
Accountant

Hem. North Gujarat University

*[Signature]*

Chief Accountant Officer

Hem. North Gujarat University

KRISHA CONSTRUCTION

*[Signature]*  
PARTNER

HEM. NORTH GUJARAT UNIVERSITY

## MEASUREMENT BOOK

NAME OF WORK : STROM WATER FACILITY

NAME OF CONTRACTOR : KRISHA CONSTRUCTION

BILL NO: 7th &amp; FINAL BILL

| Item No. | Description  | Rate    | Unit | P.No. | Qty.    | Amount    |
|----------|--|---------|------|-------|---------|-----------|
| 24       | P & Laying CC 1:3:6 in foundation & plinth               |         |      | 38    | 294.36  |           |
|          |  |         |      | 41    | 15.72   |           |
|          | Full Rate is given                                       | 2507.69 | Cmt  |       | 310.08  | 777584.52 |
| 26       | P, L & Jointing RCC Pipe 900mm dia                       | 1898.45 | Rmt  | 38    | 118.60  | 225156.17 |
| 27       | Brickwork in cm 1:5 in foundation upto height plinth     |         |      | 38    | 16.77   |           |
|          |  |         |      | 42    | 17.13   |           |
|          |  | 2957.58 | Cmt  |       | 33.90   | 100261.96 |
| 29       | P & Applying 15mm thick cement plaster in cm 1:3         |         |      | 38    | 275.95  |           |
|          |  |         |      | 42    | 197.96  |           |
|          |  | 109.13  | Sqmt |       | 473.91  | 51717.80  |
| 30       | Cleaning the bottom surface incl. removing grass, plant  | 101     | Sqmt | 38    | 1523.76 | 153899.76 |
| 31       | Dismantling existing Damage stone pitching               | 247.93  | Cmt  | 38    | 75.14   | 18629.46  |
| 32       | Filling with murrum or selected soil                     | 252.45  | Cmt  | 38    | 318.83  | 80488.63  |
| 33       | Uncoursed Rubble masonry pitching                        |         |      | 38    | 326.69  |           |
|          |  |         |      | 42    | 37.75   |           |
|          |  | 623.17  | Sqmt |       | 364.44  | 227108.07 |
| 34       | P & Laying cc 1:1.5:3 lining the sloping surface of lake | 4999.5  | Cmt  | 38    | 123.16  | 615738.42 |
| 35       | P & Fixing Pre-cast Rubber Dye inter locking block       |         |      |       |         |           |
|          | Full Rate is given                                       | 673.7   | Sqmt | 38    | 214.74  | 144670.34 |
| 36       | S & Erecting Flexible copper wires 3 core 1.50 sqmm      | 45.45   | Rmt  | 38    | 310.00  | 14089.50  |
| 37       | S & Erecting LED Street light 40 watts                   |         |      | 38    | 50.00   |           |
|          |  |         |      | 42    | 10.00   |           |
|          | Full Rate is given                                       | 10443.4 | No.  |       | 60.00   | 626604.00 |
| 38       | MCB Single pole 6A to 32A                                |         |      | 38    | 60.00   |           |
|          |  |         |      | 42    | 6.00    |           |
|          |  | 116.15  | No.  |       | 66.00   | 7665.90   |
| 39       | P & Erecting 415V MCB Four pole switch 40 Amps           | 656.5   | No.  | 38    | 2.00    | 1313.00   |
| 40       | Plastic enclosure fitting                                | 106.05  | No.  | 38    | 30.00   | 3181.50   |
| 41       | P & Erecting MCB Distribution board                      | 313.1   | No.  | 38    | 1.00    | 313.10    |
| 43       | Pipe earthing with necessary 8 SWG Earth wire            | 434.3   | No.  | 42    | 30.00   | 13029.00  |
| 44       | For using salt & charcoal for pipe earthing              | 202     | No.  | 43    | 30.00   | 6060.00   |
| 45       | S & Erecting earth pit for electrode earthing            | 7221.5  | No.  | 38    | 1.00    | 7221.50   |
| 46       | P, Erecting, Fabricated M.S Structure                    | 90.9    | Kg   | 43    | 20.00   | 1818.00   |
| 47       | P & Erecting ISI Armoured cable 4 core 10 sq.mm          | 146.45  | Rmt  | 43    | 719.00  | 105297.55 |
| 48       | P & Erecting ISI Armoured cable 4 core 25 sq.mm          | 202     | Rmt  | 43    | 75.00   | 15150.00  |

*[Signature]*  
Civil Engineer

Hem. North Gujarat University

Only Mathematically Verified  
*[Signature]*  
11/1/21  
Accountant

Hem. North Gujarat University

*[Signature]*  
Chief Accountant Officer

Hem. North Gujarat University

*[Signature]*  
11/1/21

HEM. NORTH GUJARAT UNIVERSITY

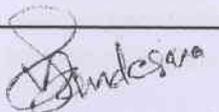
## MEASUREMENT BOOK

NAME OF WORK : STROM WATER FACILITY

NAME OF CONTRACTOR : KRISHA CONSTRUCTION

BILL NO: 7th &amp; FINAL BILL

| Item No.          | Description   | Rate    | Unit    | P.No. | Qty.   | Amount                    |
|-------------------|---|---------|---------|-------|--------|---------------------------|
| 49                | Making trenches in soft soil                        | 45.45   | Rmt     | 39    | 800.00 | 36360.00                  |
| 50                | Drilling the road without breaking the road         | 404     | Rmt     | 39    | 15.00  | 6060.00                   |
| 51                | P & Laying DWC Pipe 50mm dia                        | 146.45  | Rmt     | 39    | 830.00 | 121553.50                 |
| 56                | S & Erecting SMC Press moulded composite FRP        | 555.5   | No.     | 39    | 35.00  | 19442.50                  |
| 57                | Providing cc 1:3:6 for pole foundation              | 4474.3  | Cmt     | 43    | 4.29   | 19194.75                  |
| 58                | S & Erecting Mini section pillar                    | 4242    | No.     | 43    | 1.00   | 4242.00                   |
| 59                | S & Erecting Backlight sheet                        | 656.5   | Kg      | 43    | 2.00   | 1313.00                   |
| 60                | Painting Street light pole                          | 252.5   | No.     | 43    | 30.00  | 7575.00                   |
| 61                | S & Erecting Digital Timer switch                   | 3737    | No.     | 43    | 1.00   | 3737.00                   |
| 62                | S & Erecting Power connector 4 pole 440V 40 Amp     | 3282.5  | No.     | 43    | 2.00   | 6565.00                   |
|                   |   |         |         |       |        | 15225954.99               |
|                   |   |         |         |       |        | Deduction Below 3.61%     |
|                   |   |         |         |       |        | 549656.98                 |
|                   |   |         |         |       |        | Net Amount Rs.            |
|                   |   |         |         |       |        | 14676298.01               |
|                   |   |         |         |       |        | A = Say Rs.               |
|                   |   |         |         |       |        | 14676298.00               |
| <b>EXTRA ITEM</b> |   |         |         |       |        |                           |
| 1                 | Excavation for foundation upto 1.5mt depth          | 67.83   | Cmt     | 44    | 646.49 | 43851.42                  |
| 2                 | Excavation for foundation upto 1.5mt to 3.0mt depth | 75.22   | Cmt     | 44    | 148.94 | 11203.27                  |
| 3                 | Filling with available excavated stuff              | 77.23   | Cmt     | 45    | 546.10 | 42098.07                  |
| 4                 | P & Laying TMT BAR Reinforcement                    | 45.48   | Kg      | 45    | 312.98 | 14234.33                  |
| 5                 | Steel work in Builtup section                       | 6023.39 | Quintal | 45    | 18.20  | 109625.70                 |
| 6                 | P & Laying Stainer pipe of Heavy duty PVC 450mm     | 6500    | Rmt     | 45    | 27.00  | 175500.00                 |
| 7                 | P & Laying UPVC Valve 150mm dia                     | 3200    | No.     | 45    | 3.00   | 9600.00                   |
| 8                 | P & Laying Vata in cm 1:1                           | 20.3    | Rmt     | 45    | 61.80  | 1254.54                   |
| 9                 | Providing form work for foundation & Mass concrete  | 108.63  | Sqmt    | 46    | 103.97 | 11294.26                  |
| 10                | S & Erecting Approved make ELCBs/RCCBs 40Amps       | 2270    | No.     | 46    | 3.00   | 6810.00                   |
| 11                | S & Erecting Single phase 2HP Submessible pump      | 16270   | No.     | 46    | 1.00   | 16270.00                  |
| 12                | S & Erecting RIGID PVC Pipe 20mm dia                | 23      | Rmt     | 46    | 48.00  | 1104.00                   |
| 13                | P & Laying UPVC Pipe 110mm dia                      | 444.4   | Rmt     | 46    | 12.00  | 5332.80                   |
| 14                | S & Erecting unarmoured cable 3 core 4 sqmm         | 180     | Rmt     | 46    | 35.00  | 6300.00                   |
| 15                | P & Fixing C-Type clamp for light                   | 120     | No.     | 46    | 60.00  | 7200.00                   |
|                   |   |         |         |       |        | B = 454555.62 (454478.39) |
|                   |   |         |         |       |        | Total A + B = 15130776.39 |
|                   |   |         |         |       |        | 15130853.62               |
|                   |   |         |         |       |        | 15130853.62               |



Civil Engineer

Hem. North Gujarat University

Only Mathematically Verified



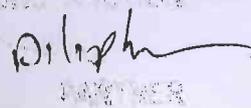
Accountant

Hem. North Gujarat University



Chief Accountant Officer

Hem. North Gujarat University



PARTNER

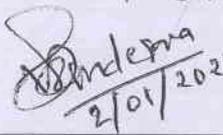
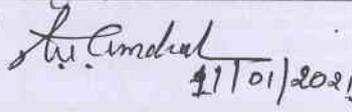
HEM. NORTH GUJARAT UNIVERSITY

## MEASUREMENT BOOK

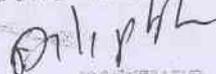
NAME OF WORK : STROM WATER FACILITY

NAME OF CONTRACTOR : KRISHA CONSTRUCTION

BILL NO: 7th &amp; FINAL BILL

| Item No. | Description  | Rate | Unit | P.No.   | Qty.                                      | Amount       |
|----------|--|------|------|---|---|--------------|
|          | <b>Bill No:- 7th &amp; FINAL Bill</b>  |      |      |   |   |              |
|          |  |      |      |   | 15,30,854.00                              | 15,30,854.00 |
| 1        | Amount of work done  |      |      |   |   | 15,13,077.60 |
| 2        | Previously paid Amount to Contractor up to date  |      |      |   |   | 14,02,352.00 |
| 3        | Net Payment done to contractor   |      |      |   | 11,19,502.00                              | 11,10,502.00 |
|          | Less Recovery  |      |      |   |   |              |
|          | A: Testing Fees @ 1%   |      |      |   |   | -11110.00    |
|          | B: Water charge 0.5%   |      |      |   |   | -5560.00     |
|          | C: Labour cess @ 1%  |      |      |   |   | -11110.00    |
|          | D: Incometax @ 1.5%  |      |      |   |   | -16660.00    |
|          |  |      |      |   | Total deduction -                         | -44440.00    |
|          |  |      |      |   | Net amount of payable to contractor Rs.   | 10,65,984.00 |
|          |  |      |      |   | 10,66,062                                 | 10,66,062.00 |
| 4        | Add Retention Money @ 50% of Total Retention money Rs.859500= Rs. 429750.00  |      |      |   |   | 429750.00    |
|          |  |      |      |   | Total amount of payable to contractor Rs. | 14,95,734.00 |
|          |  |      |      |   | 14,95,812.00                              | 14,95,812.00 |
|          | $(11,10,502/- + 4,29,750) = 15,40,252/-$ Rupees fifteen thousand two hundred fifty two only.   |      |      |   |   |              |
|          | <i>(Two hundred fifty two only)</i>  |      |      |   |   |              |
|          | <br>Civil Engineer<br>Hem. North Gujarat University |      |      | <br>D.E.<br>Hem. North Gujarat University |   |              |

KRISHA CONSTRUCTION

  
 PARTNER

 Civil Engineer  
 Hem. North Gujarat University

 Accountant  
 Hem. North Gujarat University

  
 Chief Accountant Officer  
 Hem. North Gujarat University

**Green Audit Report on**  
**Water Conservation at Campus**  
**Hemchandracharya North Gujarat North Gujarat**  
**University**

Water is a valuable natural resource for all living organisms. Due to the water crisis in many parts of the world it is necessary that their should be proper water management at every level to save the water for future generations. Water pollution and wastage plays a vital role in water crisis. Water contaminations are taking place at an alarming rate. Drinking or using contaminated water leads to many diseases or death. That is why it is important to ensure that drinking water is safe, clean and free from bacteria and disease. It is also important to conserve protect and manage the water resources availability and usage so that it is sustainably used. Our university examine the quality and usage of water in the university campus. Water auditing is conducted for the evaluation of facilities of raw water intake and determining the facilities for water treatment and reuse. The concerned auditor investigates the relevant method that can be adopted and implemented to balance the demand and supply of water.

**USES AND MANAGEMENT**

**SOURCE OF WATER**

| <b>SL. No.</b> | <b>Resource</b>                                      | <b>Quantity</b> |
|----------------|--|-----------------|
| 1              | No of Bore-well                                      | 04              |
| 2              | Water Reserve Tank (main tank: 3 lacs ltr. Capacity) | 01              |
| 3              | Water Reserve Tank ( Department)                     | 01              |

**WATER USERS IN CAMPUS**

| <b>SI No.</b> | <b>Person in different section</b> | <b>Strength<br/>(No. of person )</b> |
|---------------|------------------------------------|--------------------------------------|
| 1             | Staff                              | 120                                  |
| 2             | Hostel Boarders                    | 1360                                 |
| 3             | Residential Family Members         | 44                                   |
| 4             | Visitors                           | Approx. 3000                         |
| 5             | Construction Labour                | Approx. 100                          |

The visitors of the university vary with respect to different activities conducted in the university campus. During admission and different competitive exam conducted in the university campus. The total number of visitors of the university increases up to 5000 on such day.

## QUANTITY OF WATER USED IN DIFFERENT SECTIONS OF THE CAMPUS

| Sl. No. | Sections             | Water Use (Litter/day) |
|---------|----------------------|------------------------|
| 1       | Academic building    | 8500                   |
| 2       | Autonomous building  | 7500                   |
| 3       | Canteen              | 3000                   |
| 4       | Urinals and Toilets  | 75000                  |
| 5       | Departments          | 70000                  |
| 6       | Laboratories         | 25000                  |
| 7       | Garden               | 55000                  |
| 8       | Drinking             | 15000                  |
| 9       | Hostel               | 145000                 |
| 10      | Residential Quarters | 50000                  |
| 11      | Leakage              | 30000                  |
| 12      | Construction Work    | 100000                 |

## WATER CONSUMPTION IN DIFFERENT ACTIVITY IN UNIVERSITY CAMPUS

| Activity                      | Water used per activity (in Litter) | No. of times Activity performed in a day | Average water used Person/Day | No. of people using water | Total water consumption per Day |
|-------------------------------|-------------------------------------|--|-------------------------------|---------------------------|---------------------------------|
| Hand and face wash            | 4-6 L                               | 4  | 16-24L                        | 4000                      | 160000                          |
| Drinking Water                | 0.2-0.4L                            | 6  | 1.2-2.4L                      | 4000                      | 7.200                           |
| Toilet Flush                  | 8-10L                               | 4  | 32-40L                        | 3714                      | 133704L                         |
| Bath                          | 30-40 L                             | 1  | 30-40 L                       | 1500                      | 52500L                          |
| Cooking & Washing In resident | 150-250L                            | 2  | 300-500L                      | 18                        | 7200L                           |
| Cooking & Washing Hostel      | 350-450L                            | 2  | 700-900L                      | 05                        | 4000L                           |
| Cloth Washing                 | 100-200L                            | 1  | 100-200L                      | 1414                      | 212100L                         |
| <b>Total</b>                  |                                     |  |                               |                           | 576704                          |

# WATER QUALITY ASSESSMENT REPORT

## MAJOR OBSERVATIONS IN REGARD OF WATER USAGES AND CONSERVATION PLAN

| Water Quality Parameters with measuring unit.           | Sample Bore well :1    | Sample Bore well :1     | Sample Bore well :1    | Sample Bore well :1    | BIS (IS:10500 of 2012) Standard (Maximum Limit) |
|---|------------------------|-------------------------|------------------------|------------------------|---|
| i) Odour: Ophthalmic sense                              | Odourless              | Odourless               | Odourless              | Odourless              | Odourless                                       |
| ii) Colour: Hazen Unit                                  | 19.3                   | 15                      | 20                     | 13.4                   | 15  |
| iii) Turbidity  | 7                      | 6.95                    | 4.8                    | 8.2                    | 5.00 NTU  |
| iv) Electrical  | 900                    | 854                     | 1520                   | 2153                   | 3000  |
| v) Sulphate (as SO <sub>4</sub> <sup>2-</sup> ) in mg/l | 18.40                  | 20.36                   | 4.15                   | 32.5                   | 400   |
| vi) Total Dissolved solid in mg/l                       | 390                    | 250                     | 450                    | 179                    | 2000  |
| vii) Chloride (as CT) in mg/l:                          | 16.2                   | 12.8                    | 7.9                    | 5.6                    | 1000  |
| viii) Fluoride (as F) in mg/l:                          | 0.7                    | 0.5                     | 0.12                   | 0.24                   | 1.5   |
| ix) Nitrate (as NO <sub>3</sub> ) mg/l:                 | 3.5                    | 5.2                     | 4.12                   | 2.13                   | 45  |
| x) Total dissolved Iron (as Fe) in mg/l:                | 0.18                   | 0.2                     | 0.24                   | 0.09                   | 0.30  |
| xi) pH at room temp                                     | 6.56 to 7.96 at 25.2°C | 6.76 to 8.4 at 24.3.2°C | 6.26 to 7.66 at 23.2°C | 6.56 to 8.42 at 25.2°C | 6.5 to 8.5 at 25°C                              |
| xii) Alkalynity as mg/l, of CaCO <sub>3</sub>           | 50.3                   | 42                      | 56.2                   | 102                    | 600   |
| xiii) Total Hardness as mg/l, of CaCO <sub>3</sub>      | 70                     | 156                     | 80                     | 215                    | 600   |
| xiv) Ammonia Nitrogen in mg/l, (NH <sub>3</sub> , as N) | 0.8                    | 0.11                    | 0.09                   | 0.12                   | 0.5   |
| xv) Calcium as "Ca" in mg/l,                            | 9.6                    | 14.6                    | 25                     | 54                     | 200   |
| xvi) Residual Chlorine as Cl <sup>-</sup> in mg/l       | 0.00                   | 0.00                    | 0.01                   | 0.02                   | 0.2   |
| xvii) Microbiological Assay<br>Total Coliform Bacteria: | Nil                    | Nil                     | Nil                    |                        | Nil   |

1. At present waste water is not recycled or reused in any form in the university premises
2. Drip irrigation and sprinklers are used for watering the garden. The garden is also watered with water pipe, two times a day for 02 hours each time.
3. University does not have any vehicle and hence there is no water usage for vehicle maintenance

## **RECOMMENDATIONS**

University administration may consider theses on top priority:-

1. To establish and implement the Water Conservation and Management Plan as per Environment Protection Act 1986
2. The water Conservation Awareness Program to be conducted on World Water Day on 22nd March every year
3. Display boards for switching off the taps to be put on at appropriate place
4. To eliminate the spillage and over usage of water in washbasins, urinals and toiler push taps are highly recommended.
5. Automatic Leak detection systems for conservation of water.
6. Rain Water Harvesting as per the guidelines of Central Ground Water Board shall be done.
7. 80 % of total quantum of ground water extracted shall be recharged to ground either by Artificial Recharge Structures within the university premises
8. Water meters to be installed on Dug Well as well as Bore Well water extraction system
9. Special Internal Water Audit to be conducted quarterly and should be headed by HOD Chemistry Department

Dr. Jagruti Jagiwala  
Principal Scientist & Auditor  
Earth Protectors, Patan

Dr. Hardik Patel  
Managing Trustee  
Earth Protectors, Patan