## WATER CONSERVATION FACILITIES IN BIT DURG

The water conservation facilities available in the Institution includes: -

#### 1. Borewell in BIT Durg



Fig. 7.5HP Pump 1



Fig. 7.5 HP Pump 2



Fig. 1 HP Pump

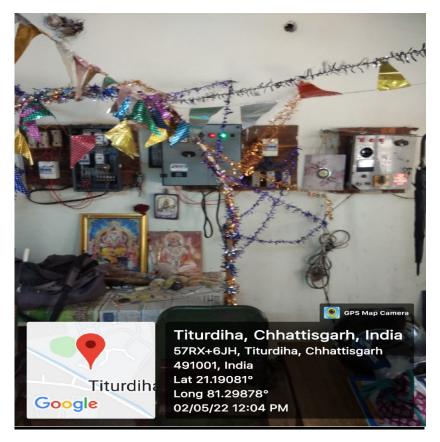


Fig. Pump Operation Office

### 2. Water Distribution System in BIT Durg

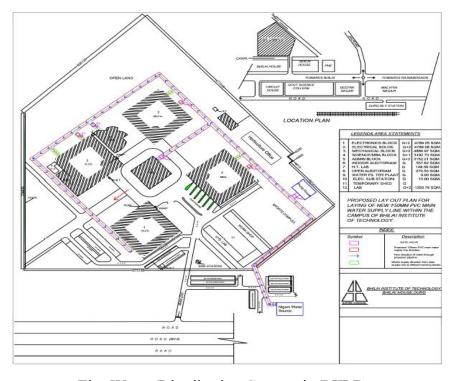


Fig. Water Distribution System in BIT Durg

### 3. Rainwater Harvesting in BIT Durg

"SAVE WATER, SAVE EARTH"

Visendra Kumar Sabu

M.Si. (Geology), P.G.D.B.M.LA.D. Consultant & Hydrogeologist Geophysicist Flain Water Harvesting & Mining Consultant Regd. With P.B.E. Dept. & Consultant Hydrogeologist. Nagar. Nigam. Balpur.



GEOPHYSICAL & GROUND WATER EXPLORES SPECIALISTS IN DELINEATION OF HYDROPOTENTIAL ZONE AND FIXATION OF BEST TUBE WELL SITES.

FACILITY AVAILABLE :- + Ground Water Survey

- ♦ Rain Water Harvesting ♦ Chemical Treatment of Bore
- ♦ Balasting Point of Bore ♦ Mineral Prospecting
- Geophysical Investigation.

RESIDENCE - H. NO. 54/1223, SHANTI VIHAR COLONY, DAGANIYA, RAIPUR (C.G.) CONT. NO.: 98279-09351

Red. No. 7811/ 8055/445/441/79/16-17

Date 24/10/16

### रेनवाटर हारवेस्टिंग प्रमाण पत्र

प्रमाणित किया जाता है कि Bhilai Institute of Technology के कॉलेज परिसर नगर निगम क्षेत्र दुर्ग, जिला — दुर्ग (छ.ग.) में स्थित है। आज दिनांक 05/10/2016 को Roof Top "Rectangular Recharge PIT Method" (Surrounding Borehole 2 No.) के द्वारा रेनवाटर हारवेस्टिंग का कार्य संपन्न किया गया। जल बचाओं एवं जल कमाओ की महान प्रक्रिया में सम्मिलित होने पर मैं आपको सादर धन्यवाद देता हूँ। कृपया बताये अनुसार इस व्यवस्था का रख रखाव करें।

कपया छतों को साफ रखें एवं नालियों के मुंह पर जालियाँ लगाएं।

Virandra Jahr Eस्ताह्मर एवं सील

Virendra Kumar Sahu Hydrogeologist Hemler J.J.H., Licence No. 656/2014-15

Fig. Certificate for Rain Water Harvesting System

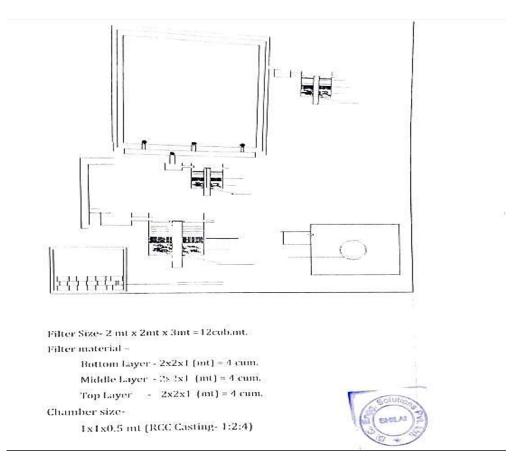


Fig. Dimensions of Pit for Rain Water Harvesting System

#### WATER AUDIT REPORT

We observed to a overage rainfall for Bhilai Institute Of Technology-Durg, Bhilai Region is 1000 non throughout the rainy season.

Area covered by roof top of constructed buildings is 1500 Sq. Meter.

So.  $1500 \times 1 = 1500 \text{ cum}$ 

1500 x 1000 Ltrs. = 15,00,000 Ltrs.

Total water available for harvesting and conservation

15,00,000Ltrs.

Total water available is 15,00,000Ltrs. This water will flow from the roof top and premise: a the building. If we construct a structure which we suggested and the drawing attached herewith. The total available water will pass through our structure and around 60% water will absorb in earth soil due to the system.

60% quantity of flowing water =9,00,000 l.trs.

We assume that near about 9,00,000 lacs lirs. Flowing water will absorb in earth soil through our 3 number of filter media system. As per our drawing.



Fig. Water Audit Report

# 4. Sewage Waste Disposal in BIT Durg

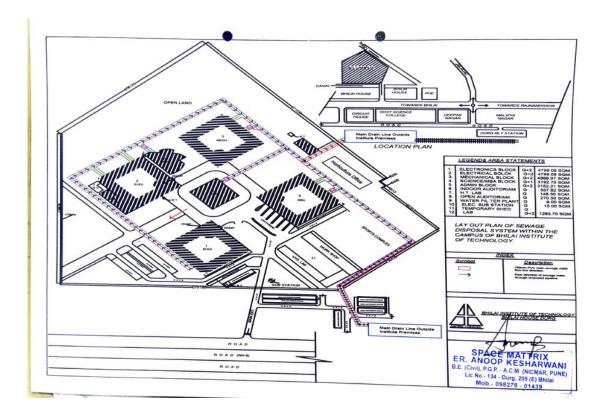


Fig. Sewage Waste Disposal in BIT Durg