

J.S.S. BANASHANKARI ARTS, COMMERCE AND SHANTIKUMAR GUBBI SCIENCE COLLEGE, VIDYAGIRI, DHARWAD

Affiliated to Karnatak University, Dharwad

Accredited with 'A' Grade in last three cycles



Fourth Cycle NAAC Accreditation SELF STUDY REPORT (SSR)

CRITERION - VII

7.1.4 (Q_nM)

Water conservation facilities available in the Institution



Submitted to
NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL, BENGALURU



J.S.S. BANASHANKARI ARTS, COMMERCE AND SHANTIKUMAR GUBBI SCIENCE COLLEGE, VIDYAGIRI, DHARWAD

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Rain Water Harvesting



7.1.4: CONSERVATION FACILITIES AVAILABLE IN THE INSTITUTION.

Our Institution is located in Vidyagiri area of Dharwad; The College depends mainly on ground water and also has supply of municipal water for all its water needs. Hence, efficient usage of available water and adaptation of water conservation measures are essential. The daily requirement of water in our college is approximately 15,000 liters. So, it's our prime duty not to waste a single drop of water and start conserving the same in JSS campus for ourselves and to meet the needs of our campus.

Water conservation method:

1. RAIN WATER HARVESTING:

During rainy season, runoff water from rooftops, gardens, quadrangle, play grounds, roads, open grounds, etc. is harvested and collected efficiently in the campus.

- **Rain water is collected in rain harvesting pit.**

We have installed the RWH system. It is a very simple method used for the collection and storage of rain water which usually runs off from different locations in the campus. With the help of artificially designed systems the rainwater is collected from various sources and is directed to a deep pit of the size 8ft diameter and 12ft depth so that it seeps down and restores the ground water. The pit capacity is approximately 17,080 liters.

The rainwater harvesting system is one of the best methods adopted in our institute and a major step towards conservation of water. Scarcity of good quality water is a significant cause of concern in the present day. However, Rainwater, which is of good quality, is used for watering the plants in gardens of the institute. We adapted this method to get benefits like,

- It is low cost method.
- The demand for fresh water is less.
- This method promotes water conservation and reduces soil erosion.
- It improves the quality and quantity of groundwater.
- This technology is easy to install and relatively simple.

PRINCIPAL

J.S.S. Banashankari Arts, Commerce &
Shantikumar Gubbi Science College.
DHARWAD-589 004





Natural flow of rain water from slope areas of the campus to GandhinagarLake



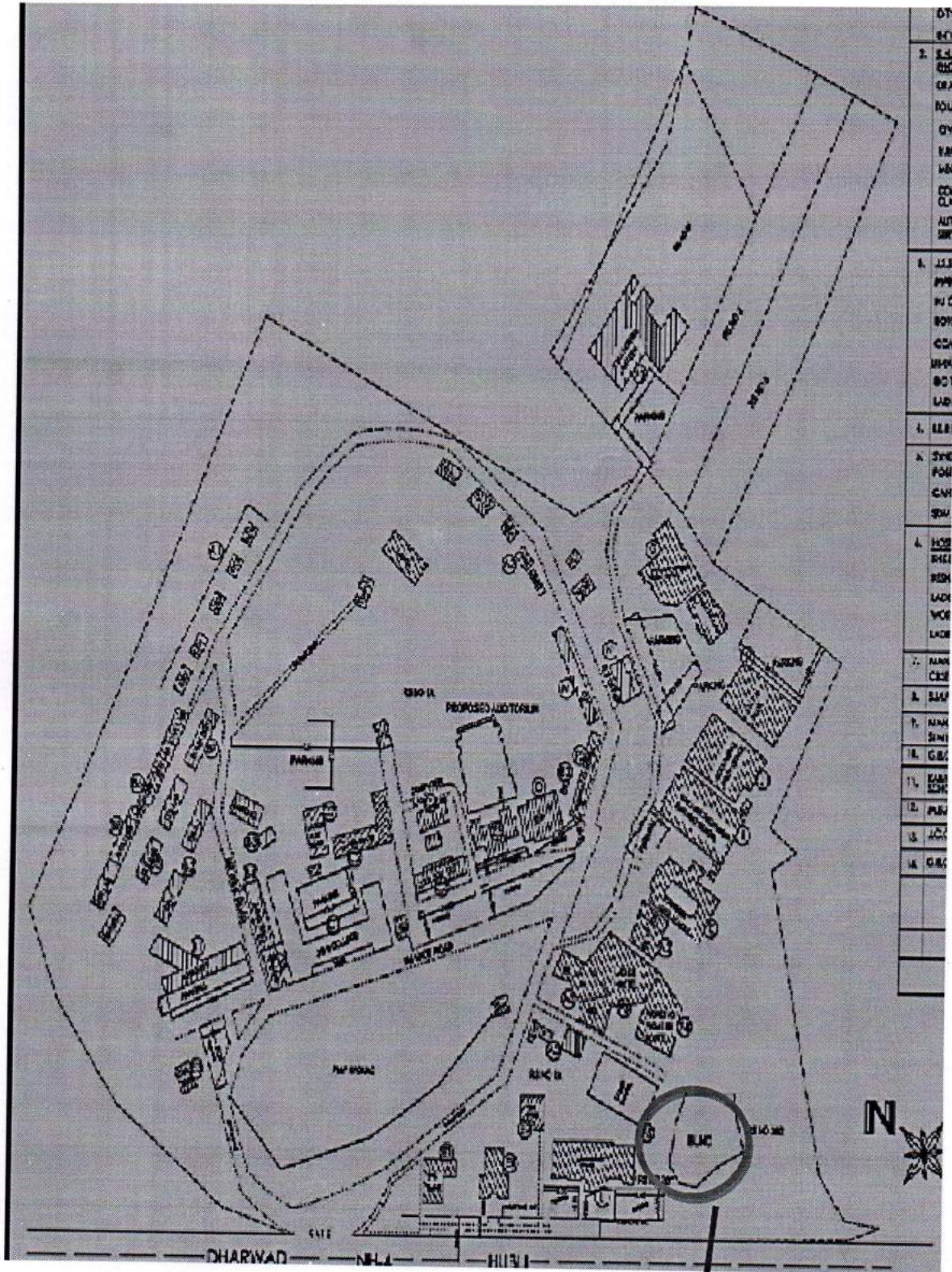
Rain water flows to Gandhinagarlake from slopes of the campus



Handwritten signature of the Principal, J.S.S. Banashankari Arts Commerce & Shantikumar Gubbi Science College, Dharwad-580 004.



MAP SHOWING NATURAL BUND AND WATER BODY NEAR THE CAMPUS AREA



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Natural Bund and water body



Handwritten Signature
PRINCIPAL
 J.S.S. Banashankari Arts, Commerce &
 Shantikumar Gubbi Science College,
 DHARWAD-580 004



1. RAIN WATER HARVESTING

CONSTRUCTION OF RAIN WATER HARVESTING PIT



Principals
PRINCIPAL

J.S.S. Banashankari Arts, Commerce &
Shantikumar Gubbi Science College,
- DHARWAD-580 004



Rain water harvested and redirected to the RWH pit



RAIN WATER COLLECTION FROM THE ROOF INTO THE TANKS FOR LABORTORY USAGE



M. Mendit
PRINCIPAL
J.S.S. Banashankari Arts Commerce &
Shantikumar Gubbi Science College,
DHARWAD-580 004

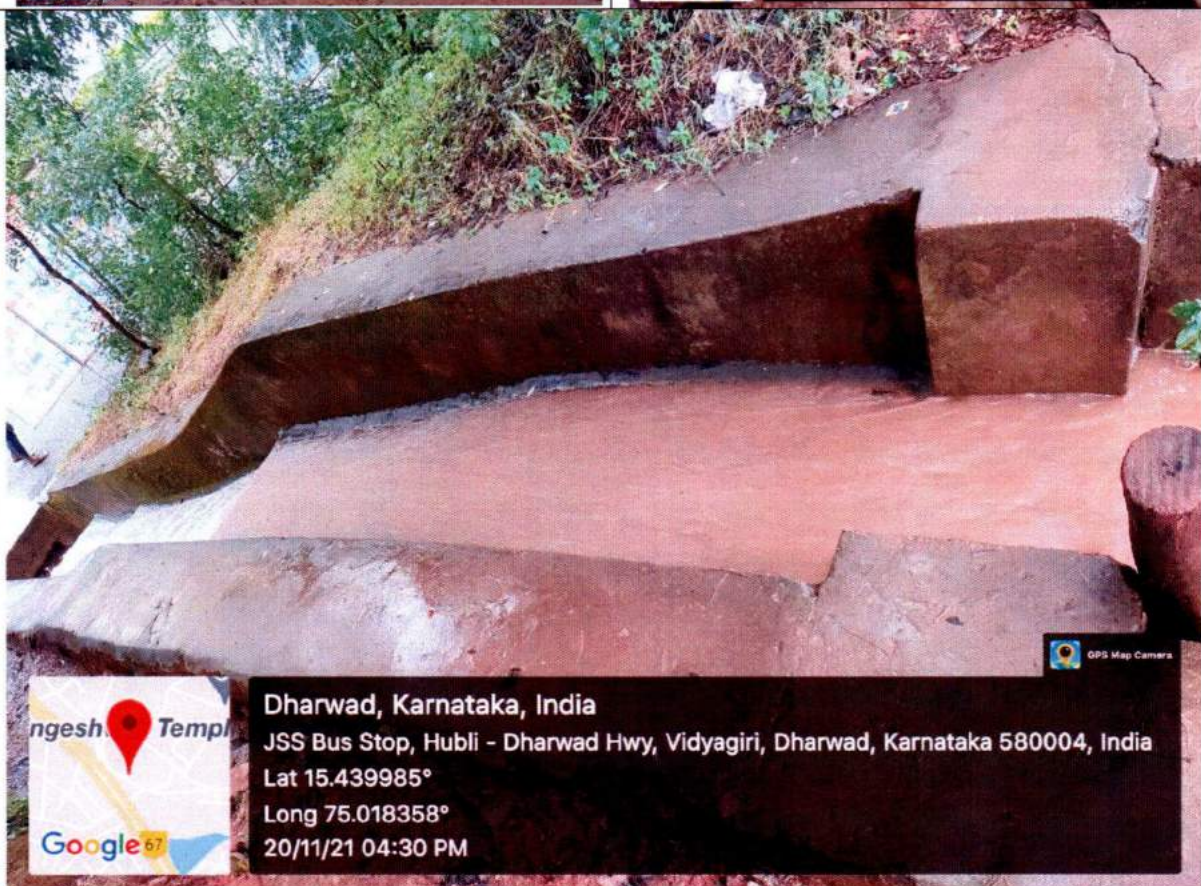
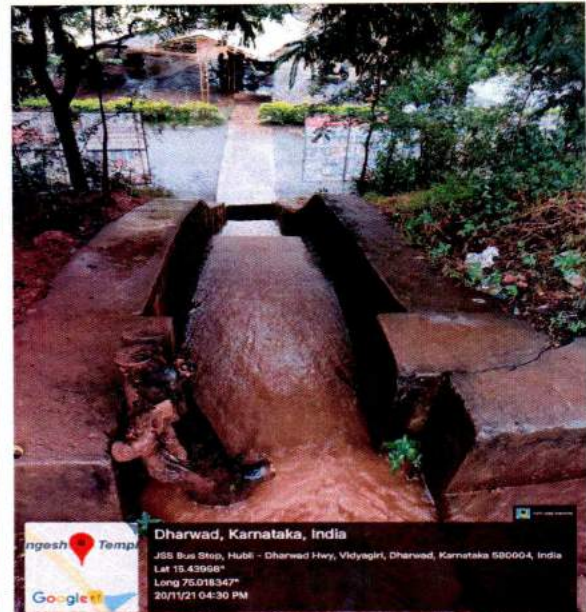
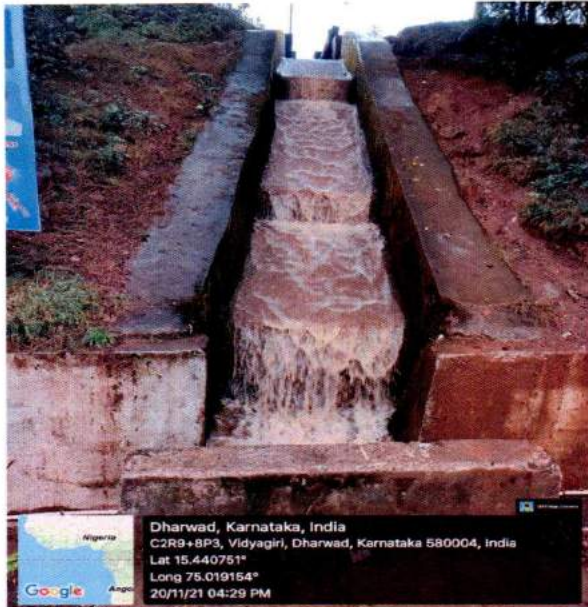


FLOWING OF RAIN WATER FROM ROOF AND QUADRANGLE TO THE RAIN WATER HARVESTING PIT



M. Mandet
PRINCIPAL

J.S.S. Banashankari Arts, Commerce &
Shantikumar Gubbi Science College,
DHARWAD-580 004



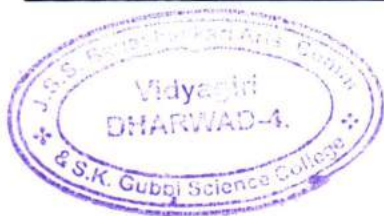
RAIN WATER FLOWING THROUGH THE SLOPES AND BUNDS



M. Mendit
PRINCIPAL
J.S.S. Banashankari Arts Commerce &
Shantikumar Gubbi Science College,
DHARWAD-580 004.



Rain water flows to Gandhinagar Lake from slopes of the campus and enhances the water table.



Mendit PRINCIPAL
J.S.S. Banashankari Arts Commerce & Shantikumar Gubbi Science College. DHARWAD-580 004



**JSS BANASHANKARI ARTS COMMERCE AND SHANTIKUMAR GUBBI
SCIENCE COLLEGE DHARWAD**



RAINWATER HARVESTING PIT AT THE JSS CAMPUS



PRINCIPAL
J.S.S. Banashankari Arts Commerce &
Shantikumar Gubbi Science College,
Dharwad-580004



Water Quality (PARAMETERS AND CONCENTRATION)

RO water Sample

SI No	Water Quality Parameters	Normal Range	Value	Remarks
01	pH	6.0-8.0	7.05	Neutral
02	EC	<1.0	0.60	Normal
03	Sodium Residual Sodium Carbonate	<1.25	-4.60	Normal
04	Sodium Specific absorption Rate	<10.0	1.55	Normal
05	Irrigation Quality level			Good water



ಕೃಷಿ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಧಾರವಾಡ
 ಐ.ಸಿ.ವಿ.ಆರ್-ಕೃಷಿ ವಿಜ್ಞಾನ ಕೇಂದ್ರ, ಧಾರವಾಡ

ಮಿಲಿಟರಿ : kvkdwd@nsd.in, kvk.Dharwad@icar.gov.in ಉಪವಿಭಾಗ : www.kvkdhawad.org
 ದೂರವಾಣಿ ಸಂಖ್ಯೆ : (0836) 2444272



ನೀರಾವರಿ ನೀರಿನ ಗುಣಮಟ್ಟದ ಭವಿಷ್ಯಾಂಶ ವರದಿ

ಸಾಮಾನ್ಯ ಮಾಹಿತಿ :	ಪ್ರಯೋಗಾಲಯದ ಮಾದರಿ ಸಂಖ್ಯೆ : 21/09/2021/02		
Name : J S S Banashankari Arts Commerce and Shantikumar Gubbi Science College Vidyagiri Dharwad	ಗ್ರಾಮ : ಧಾರವಾಡ		
ಮೋಟಾರ್ / ರೈತ ಸಂಪರ್ಕ ಕೇಂದ್ರ :	ತಾಲೂಕು : ಧಾರವಾಡ		
ಜಮೀನಿನ ಸರ್ವೆ ನಂ. :			
ನೀರಾವರಿ ಮೂಲ : Rivers Osmosis			
ವಿಶ್ಲೇಷಣಾ ವರದಿ			
	ಸಾಮಾನ್ಯ	ಪ್ರಮಾಣ	ಶರಾ
ರಸಸಾರ (pH)	6.0-8.0	7.05	ಶುಭ
ಲವಣಾಂಶ (EC) (ಡಿಸ್ ಸೈಮನ್ಸ್ / ಮೀ.)	<1.0	0.60	ಸಾಮಾನ್ಯ
ಉಳಿತಾಯ ಸೋಡಿಯಂ ಕಾರ್ಬೋನೇಟ್ (RSC) (ಮಿ.ಗ./ಲೀ.)	<1.25	-4.60	ಸಾಮಾನ್ಯ
ಸೋಡಿಯಂ ಮಂದಗಟ್ಟುವ ಪರಿಮಾಣ (SAR)	<10.0	1.55	ಸಾಮಾನ್ಯ
ನೀರಾವರಿ ಗುಣಮಟ್ಟದ ವರ್ಗ			ಉತ್ತಮ ನೀರು / ಮಧ್ಯಮ-ಸವಳು ನೀರು / ಸವಳು ನೀರು / ಹೆಚ್ಚು ಸವಳು / ಮಧ್ಯಮ ಕ್ಷಾರ ನೀರು / ಕ್ಷಾರ ನೀರು / ಹೆಚ್ಚು ಕ್ಷಾರ ನೀರು

ನಿಜವೆ : ಈ ಪ್ರಮಾಣವು ಸಂಬಂಧಿಸಿದ ಸುಲಭವಾಗಿ ಮಾತ್ರ ಧನೀಕರಣ ಯಾವುದೇ ಕಾರಣದಿಂದಾಗಿ ಅನುಭವಿಸಿದ ಕೆಲವು ಅನುಭವಗಳ ಕೆಲವು ಅನುಭವಗಳಿಗೆ ಅನ್ವಯಿಸುವುದಿಲ್ಲ.



Senior Deputy Officer
 ICAR, Dharwad
 U.S. Banashankari
PRINCIPAL
 J.S.S. Banashankari Arts, Commerce & Shantikumar Gubbi Science College,
 DHARWAD-580 004.



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Borewell /Open well recharge



1. BOREWELL /OPEN WELL RECHARGE



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Shantikumar Gubbi Science College,
DHARWAD-580 004



Bore well water Sample

SI No	Water Quality Parameters	Normal Range	Value	Remarks
01	pH	6.0-8.0	7.04	Neutral
02	EC	<1.0	1.03	Normal
03	Sodium Residual Sodium Carbonate	<1.25	-5.80	Normal
04	Sodium Specific absorption Rate	<10.0	1.60	Normal
05	Irrigation Quality level			Good water



**ಕೃಷಿ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಧಾರವಾಡ
ಬಿ.ಸಿ.ವಿ.ಆರ್-ಕೃಷಿ ವಿಜ್ಞಾನ ಕೇಂದ್ರ, ಧಾರವಾಡ**

ಐಂಟರ್ನೆಟ್ : kvkdwd@unad.in, kvk.Dharwad@icar.gov.in ಒಂಪರ್‌ವೆಬ್ : www.kvkdhawad.org
ದೂರವಾಕ್ ಸಂಖ್ಯೆ : (0836) 2444272



ನೀರಾವರಿ ನೀರಿನ ಗುಣಮಟ್ಟದ ತಿಳಿವಳಿ ವರದಿ

ಸಾಮಾನ್ಯ ಮಾಹಿತಿ :	ಪ್ರಯೋಗಾಲಯದ ಮಾದರಿ ಸಂಖ್ಯೆ : 21/09/2021/01		
Name : J S S Banashankari Arts Commerce and Shantikumar Gubbi Science College Vidyagiri Dharwad	ಗ್ರಾಮ : ಧಾರವಾಡ		
ಹೋಬಳಿ / ರೈತ ಸಂಪರ್ಕ ಕೇಂದ್ರ :	ತಾಲ್ಲೂಕು : ಧಾರವಾಡ		
ಜಮೀನಿನ ಸರ್ವೆ ನಂ. :			
ನೀರಾವರಿ ಮೂಲ : ಬೋರವೆಲ್ ನೀರು			
ವಿಶ್ಲೇಷಣಾ ವರದಿ			
	ಸಾಮಾನ್ಯ	ಪ್ರಮಾಣ	ಶರಾ
ರಸಸಾರ (pH)	6.0-8.0	7.04	ತಟಸ್ಥ
ಲವಣಾಂಶ (EC) (ಡೆಸಿ ಸೈಮನ್ಸ್ / ಮೀ.)	<1.0	1.03	ಸಾಮಾನ್ಯ
ಉಳಕೆಯ ಸೋಡಿಯಂ ಕಾರ್ಬೋನೇಟ್ (RSC) (ಮಿ.ಇ./ಲೀ.)	<1.25	-5.80	ಸಾಮಾನ್ಯ
ಸೋಡಿಯಂ ಮಂದಗಟ್ಟುವ ಪರಿಮಾಣ (SAR)	<10.0	1.60	ಸಾಮಾನ್ಯ
ನೀರಾವರಿ ಗುಣಮಟ್ಟದ ವರ್ಗ	ಉತ್ತಮ ನೀರು / ಮಧ್ಯಮ-ಶವಳು ನೀರು / ಶವಳು ನೀರು ಹೆಚ್ಚು ಶವಳು / ಮಧ್ಯಮ ಕ್ಷಾರ ನೀರು / ಕ್ಷಾರ ನೀರು / ಹೆಚ್ಚು ಕ್ಷಾರ ನೀರು		

ಸೂಚನೆ : ಈ ಪ್ರಮಾಣಪತ್ರ ಸಂಬಂಧಿಸಿದ ಸಲಹೆಗಾಗಿ ಮಾತ್ರ ಇನ್ನಿತರ ಯಾವುದೇ ಕಾರ್ಯದ ಹಾಗೂ ಕಾನೂನುಬಾಹಿರ ಕೆಲಸ ಉಂಟಾಗದಂತೆ ಧನ್ಯವಾದವು.



Senior Technical Officer
I.C.A.R. Krishi Vigyan Kendra
U.A.S. Dharwad

(Signature)
PRINCIPAL

J.S.S. Banashankari Arts, Commerce & Shantikumar Gubbi Science College,
DHARWAD-580 004



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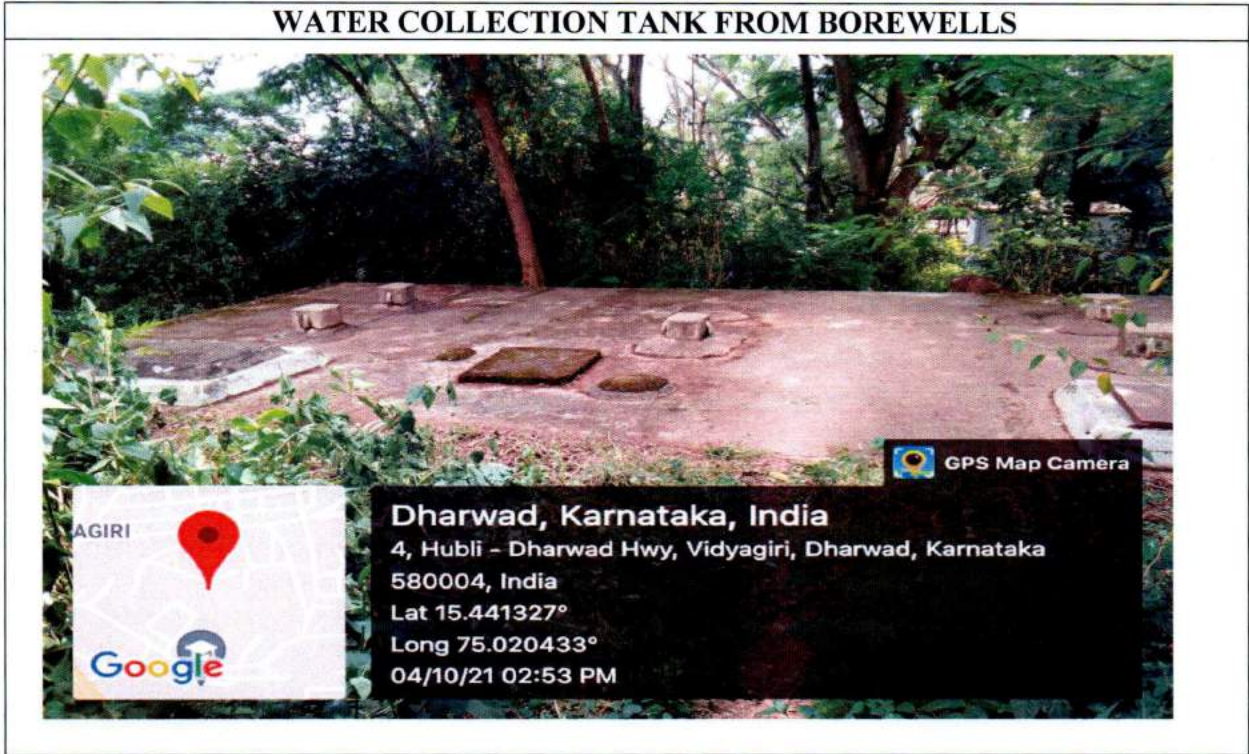


Construction of tanks and bunds



CONSTRUCTION OF TANKS AND BUNDS

WATER COLLECTION TANK FROM BOREWELLS



RAIN WATER FLOWING FROM SLOPES OF THE CAMPUS



M. Madit
PRINCIPAL

J.S.S. Banashankari Arts Commerce &
Shantikumar Gubbi Science College
DHARWAD-580 004



Maintenance of artificial Water tanks with hydrophytes in Botany garden

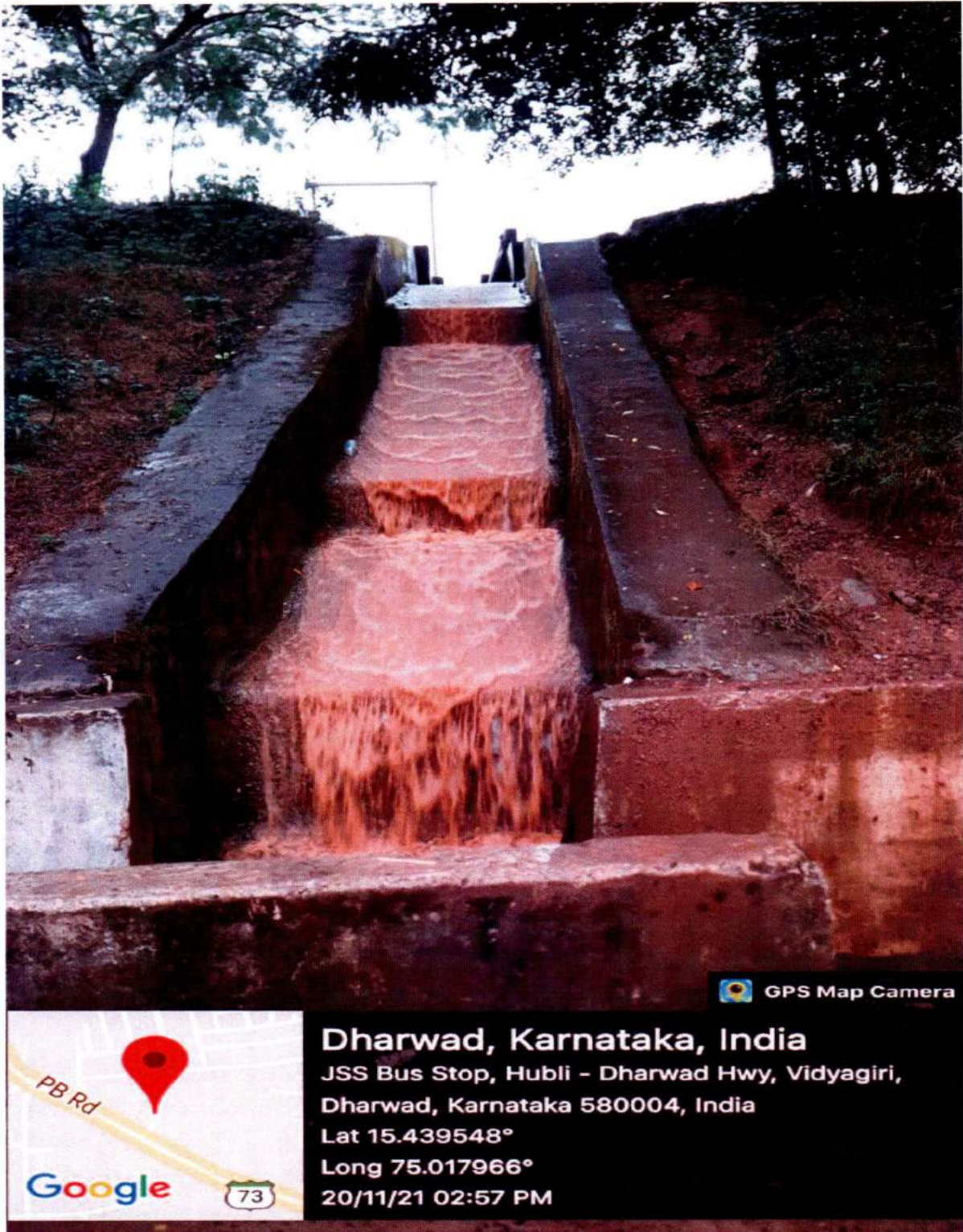
MAINTENANCE OF ARTIFICIAL WATER BODY WITHIN THE NURSERY



MAINTENANCE OF HYDROPHYTES



M. Rendit
PRINCIPAL
J.S.S. Banashankari Arts, Commerce &
Shantikumar Gubbi Science College
DHARWAD-508 004



RAIN WATER FLOWING THROUGH THE BUND.



Maidit
PRINCIPAL
J.S.S. Banashankari Arts, Commerce &
Shantikumar Gubbi Science College,
DHARWAD-580 004.



J.S.S. BANASHANKARI ARTS, COMMERCE AND SHANTIKUMAR GUBBI SCIENCE COLLEGE, VIDYAGIRI, DHARWAD

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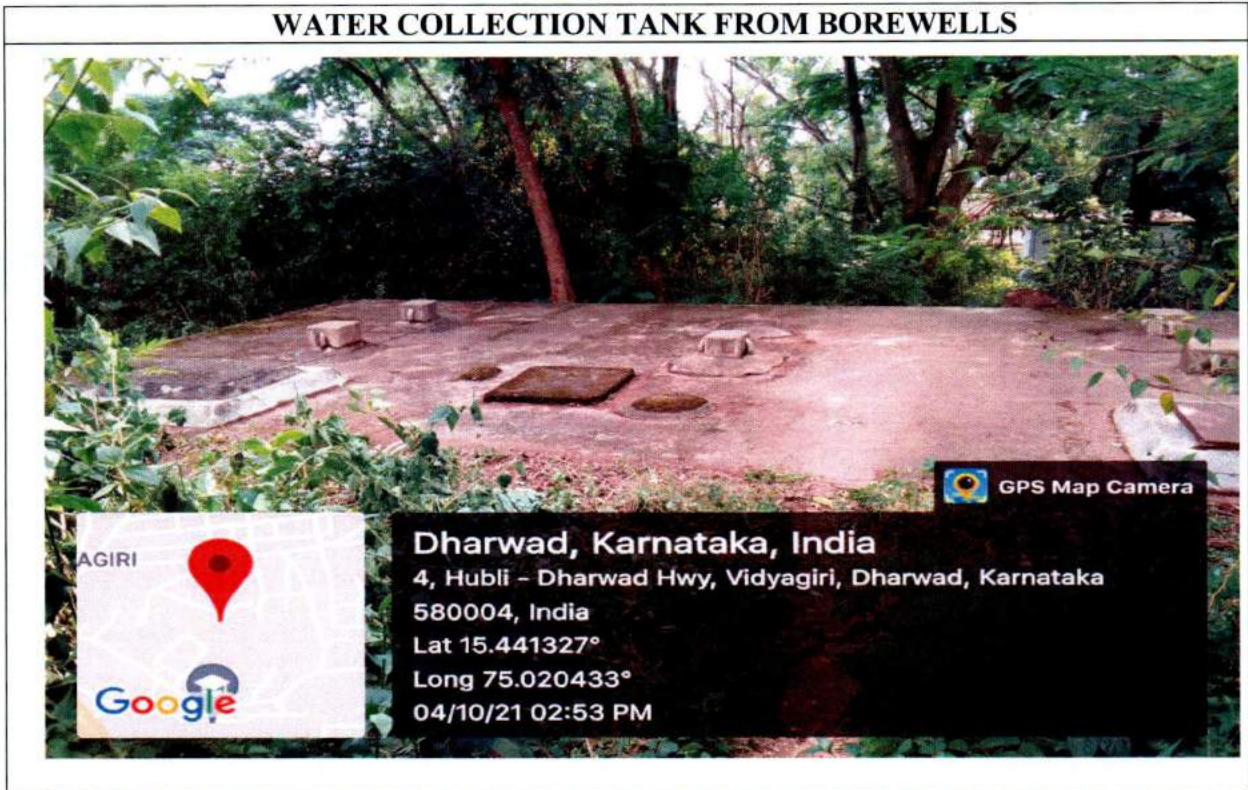
**Maintenance of water bodies and
distribution system in the campus**



05. MAINTENANCE OF WATER BODIES AND DISTRIBUTION SYSTEM IN THE CAMPUS

The ground water is pumped into storage tanks located at different places in the campus. There are rooftop tanks on each building and one large water storage tank in the campus. The water is distributed through well laid pipe network. Drinking water is supplied through a separate set of distribution pipes and water for all other purpose is supplied through another set of distribution pipes. Entire distribution system is well supervised by Civil works committee to ensure that there are no leakages and wastages of precious water through joints, valves etc. Waste usage of water is pressure reduced using low flushes. All the stakeholders of the college are well educated to use water economically and efficiently

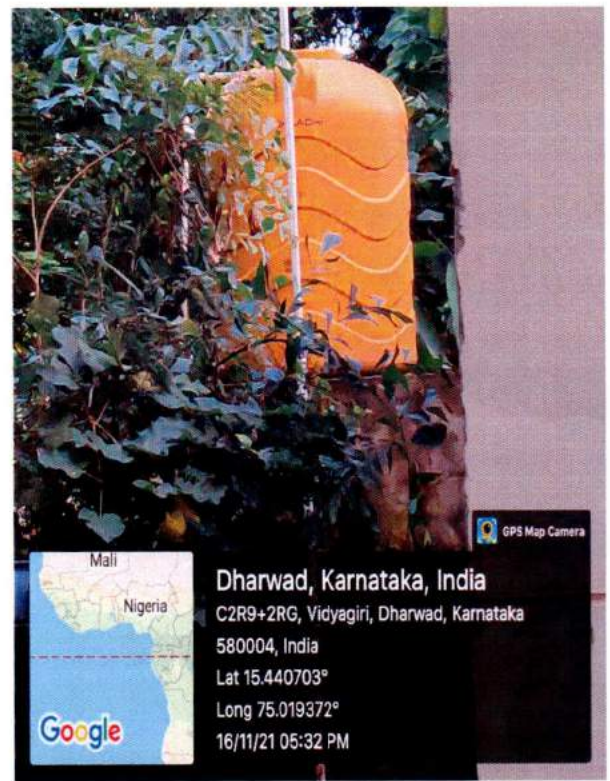
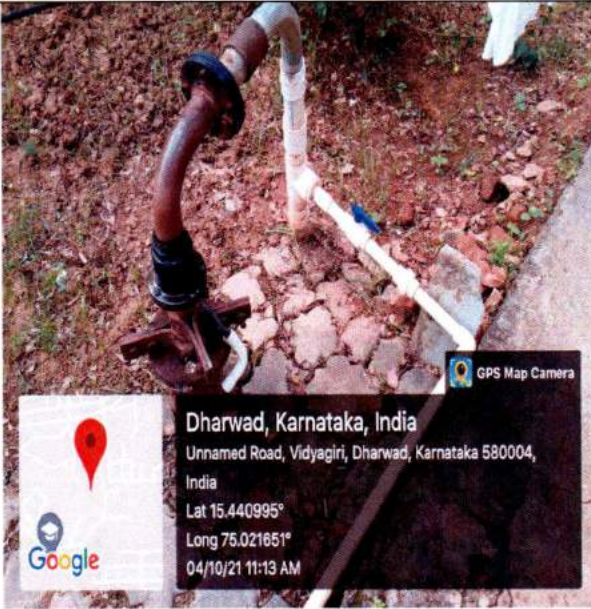
WATER COLLECTION TANK FROM BOREWELLS



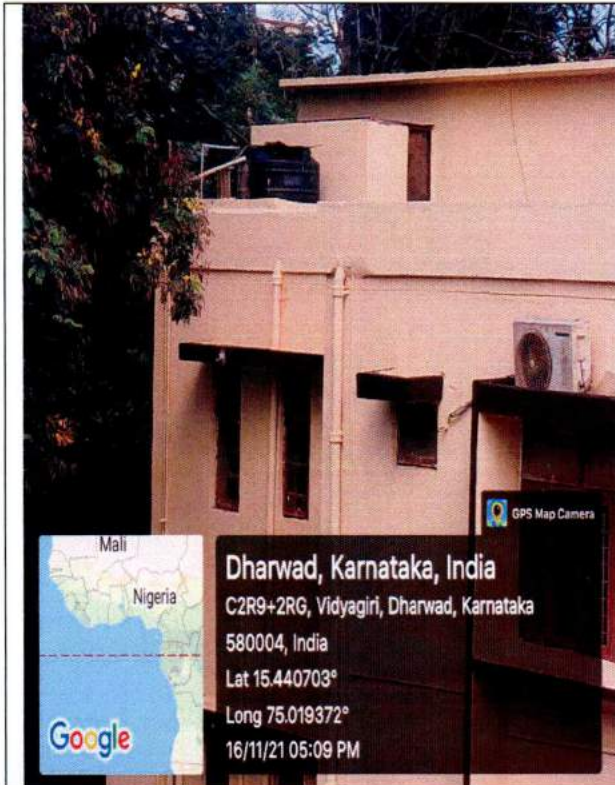
Shantikumar
PRINCIPAL
J.S.S. Banashankari Arts, Commerce &
Shantikumar Gubbi Science College
DHARWAD-580004



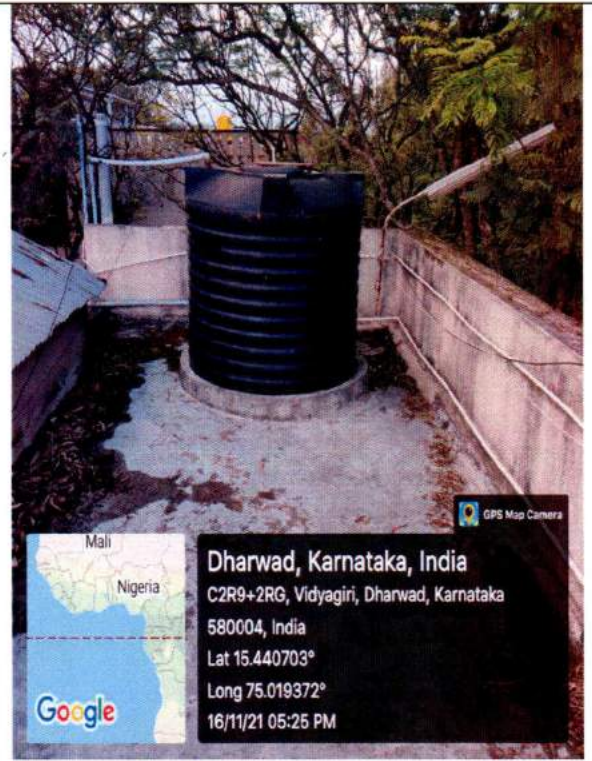
BOREWELLS POINTS IN THE CAMPUS



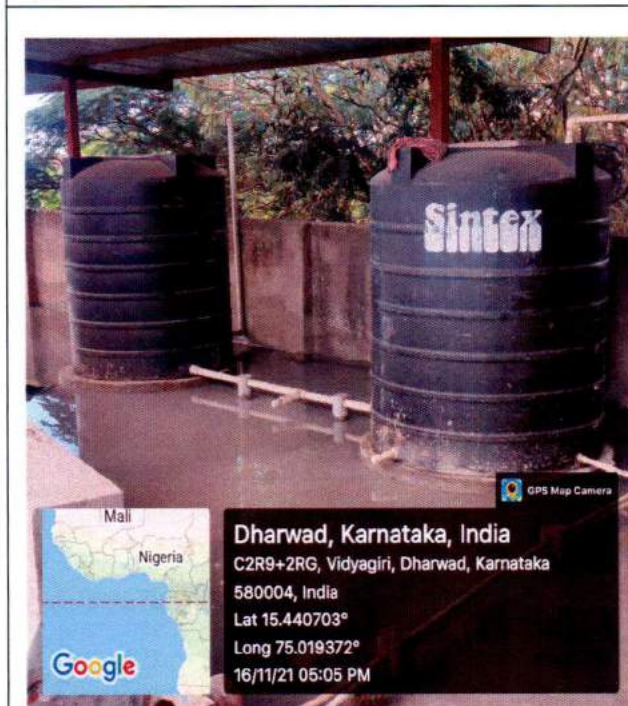
M. Harish
PRINCIPAL
J.S.S. Banashankari Arts, Commerce &
Shantikumar Gubbi Science Co.
DHARWAD-580 004



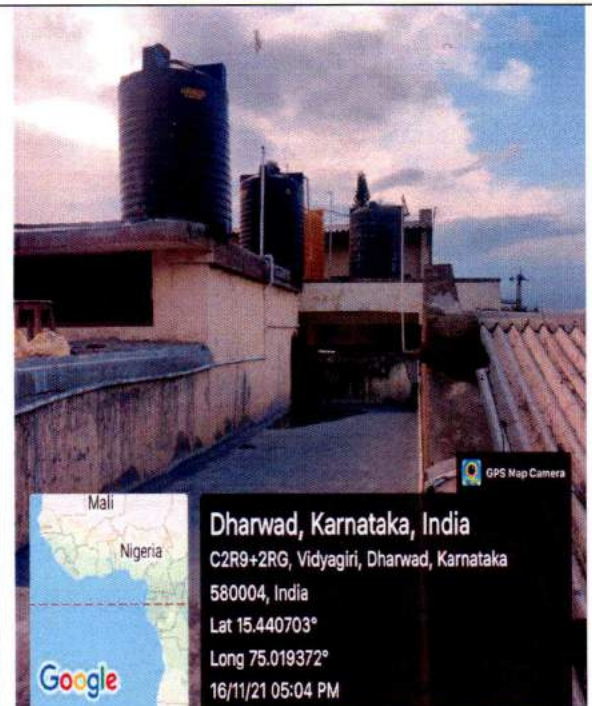
WATER TANK ON THE ROOF OF SCIENCE BLOCK



WATER TANK ON THE ROOF OF COMPUTER SCIENCE DEPARTMENT



WATER TANK ON THE ROOF OF GEOGRAPHY DEPARTMENT



WATER TANK ON THE ROOF OF PG CHEMISTRY DEPARTMENT

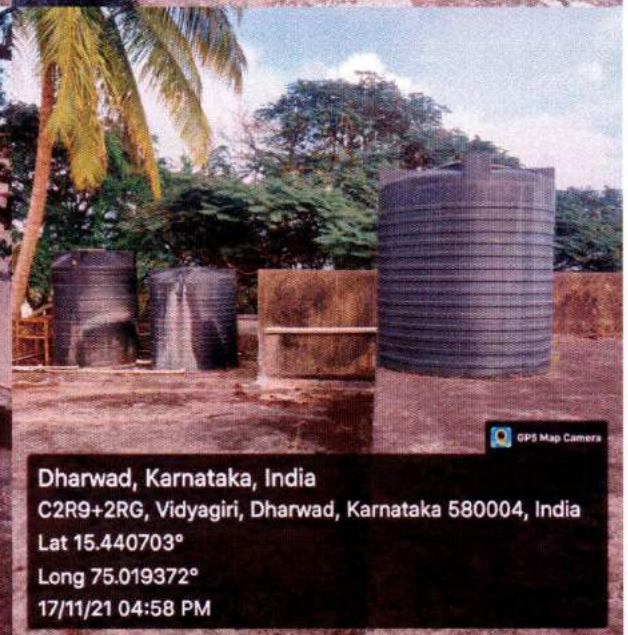
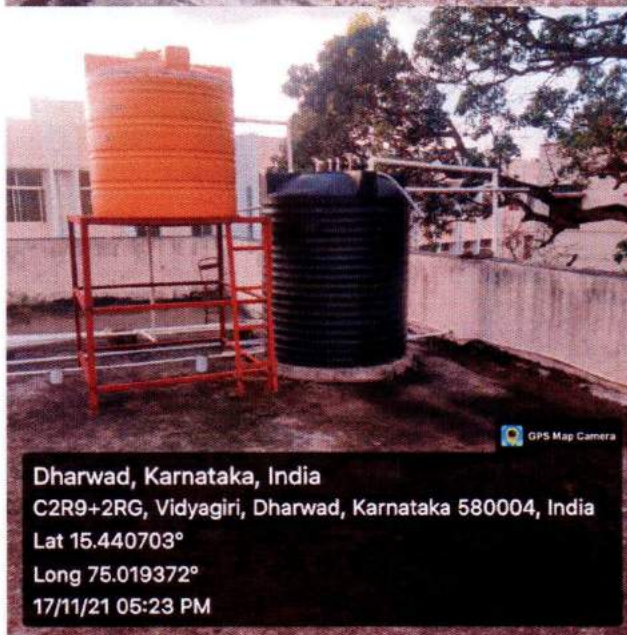
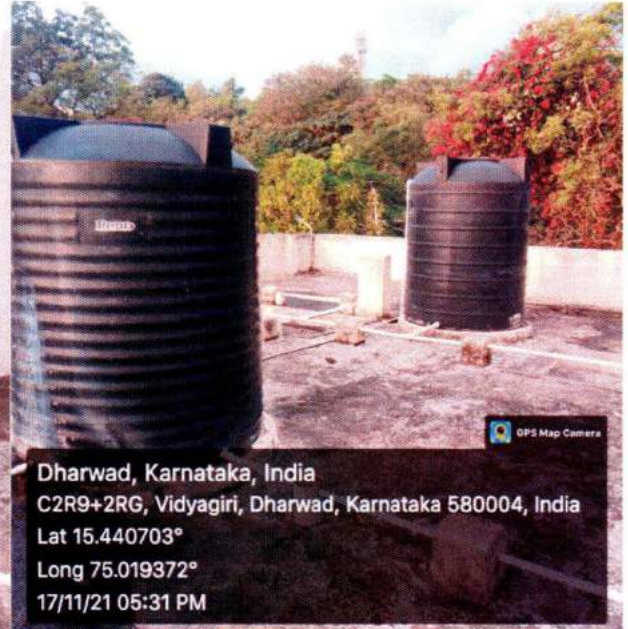
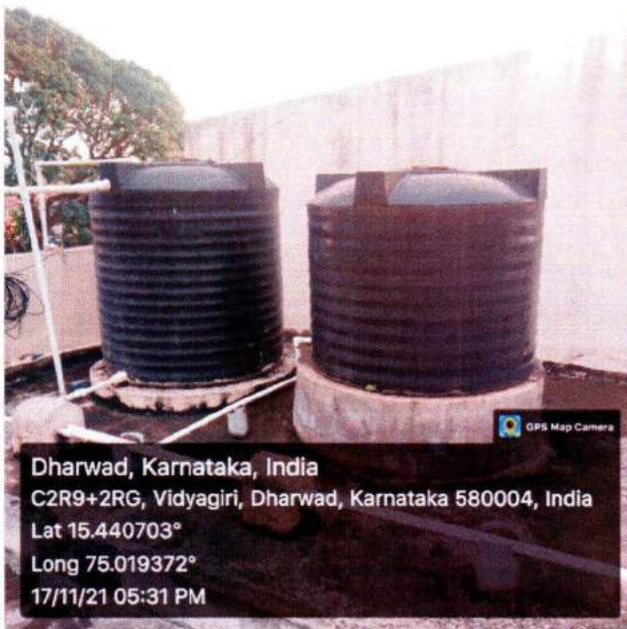


Shantika
Principal
J.S.S. Banashankari Arts, Commerce & Shanti Kumar Gubbi Science College, Dharwad-580004



JSS BANASHANKARI ARTS COMMERCE AND SHANTI KUMAR GUBBI SCIENCE COLLEGE, DHARWAD

WATER STORAGE UNITS IN THE BOYS AND GIRLS HOSTELS LOCATED IN CAMPUS



Total number of tanks in the college and hostels	30, Each tank of capacity 2000 liters 04, Each tank of capacity 1000 liters
Total capacity of roof tanks	64,000 Liters



M. Pandit
PRINCIPAL
J.S.S. Banashankari Arts, Commerce &
Shantikumar Gubbi Science College,
DHARWAD-580004.

GSTIN : 29AAIFN7984N1Z5

CASH / CREDIT BILL

GST INVOICE



New
KATWE HARDWARE

Katwe Mansion, Victoria Road
Hubli - 580 028. Tel. : 0836-4254489 Cell : 96861 10668

731
745

To. J.S.S. @

SI.No. 401

Date: 31/1/2018

Dharwad

Party GST No. _____

E-sugam No. _____

Sl. No	Description	HSN Code	Qty	Rate	Disc	Amount		
						GST 12%	GST 18%	GST 28%
1.	Kaka Curdaim Pipe		65ct	134			804	
2.	gs. Pipe 1"		4cm	250	1000			
3.								
4.								
5.								
6.								
7.								
8.								
9.								
10.								
11.								
12.								
13.								
14.								
15.								

J.S. Dege
2/19/2018

[Handwritten signature]

NEW KATWE HARDWARE
Bank : ANDHRA BANK
Club Raod, Hubli.
A/c No. : 021411100000265
IFSC Code : ANDB 0000214

TOTAL	1000	804
SGST	60	72.5
CGST	60	72.5
IGST		
TOTAL	1120	949.00
PACKING		
G.TOTAL	2069	20

Rupees in Words _____

1 Goods once sold will not be taken back or exchanged.
2. Interest @ 24% p.a. will be charged if bill not paid within due date.
3. Our responsibility ceases once the goods leave our shop.
4. No complaints will be entertained after 7 days from the date of delivery.
Subject to Hubli Jurisdiction. E & O.E.

Receiver's Signature *[Signature]*
Partner



HUBLI :

BENGALURU :

[Signature]
PRINCIPAL
J.S.S. Banashankari Arts, Commerce & Science College
Shantikumar Gubbi Science College
DHARWAD-580 004.

Date: 31.03.2021

o/c

To,
The Manager
Syndicate Bank
Vidyagiri, Dharwad.

Subject: NEFT Transfer

Sir,

I request you to debit sum of Rs.1,42,511/- Vide Cheque No. 992311 dated 30.03.2021 towards the NEFT Transfer.

Sl. No.	Name of the Party	Bank Name	Account No.	Branch Name	IFSC Code	Amount
1	Samson Solar Energy	Punjab National Bank	Current A/c. No. 2248101200 0431	Gandhi Nagar Dharwad	PUNB02248 10	1,42,511/-



[Handwritten Signature]
PRINCIPAL
J.S.S. Banashankar Arts, Commerce &
Shankar Gauri Science College &
Shri Chhatrapati Shivaji Maharaj College
Dharwad-580 004.
Dharwad-580 004.



JANATA SHIKSHANA SAMITI'S

VIDYAGIRI, DHARWAD-580 004.

(BUILDING CONSTRUCTION WORKS)

No. 3189

Date : 10-02-2018..

To
The Secretary
Janata Shikshana Samiti's, Dharwad

Through
The Principal
J.S.S. Banashankar & S.K. Gubhi School &
College Dharwad

Dear Sir,

Expenses for constⁿ of Rainwater harvesting. Indent of the weekly payments

at the construction site of _____
as per particulars mentioned below :

Sl.No.	Particulars	Amount
1	G.T. Patil supply of	
	1 supply of U.C.R. stone boulders 2 load @ 6000/load	9000 = 0
	2 supply of 80mm boulders 1 load @ rate 6000/load	6000 = 0
	3. supply of 40mm boulders (jelly @ rate 6000/load)	6000 = 0
2	Basavasaaj chillu	
	(1) J. CB hire charges For Rainwater harvesting pit 5 hrs @ 1000/-	5000 = 0
	(2) Tractor local trips to lift excavated soil 20 trip @ 500/-	10,000 = 0
	(3) daily wages labour 10 Lab to fill boulders/jelly etc @ 550/-	5500 = 0
	(4) 2 tractor Load 6mm cost @ 4500/-	9000 = 0
	(5) Sand 2 tractor (m-sand) @ 4500/-	9000 = 0
	(6) Bricks 2000 Nos @ rate (9000) @ 4.50/m	9000 = 0
3	Umar Faouque Gulandaj Labour charges	25154 = 0
	Total	93,654 = 0

SANCTIONED

N. V. Balkan
SECRETARY

for Secretary, Janata Shikshana Samiti
DHARWAD

A. B.

Finance Office
Finance Office

For the Secretary J.S.S.
Submitted for the Sanction of Funds

[Signature]
PROJECT ENGINEER



Ref. No. JSSCD/

Date : ೨೦ : ೦೨ : ೨೦೧೮

Expenditure for the Construction and Purchase of construction materials

Rain Water Harvesting and Vermiculture Pit

Sl. No	Material	Amount (In Rs.),
1.	Uncrushed boulder (02 load)	9,000.00
2.	80mm boulder	6,000.00
3.	40mm boulder	6,000.00
4.	JCB hire	5,000.00
5.	Tractor hire	10,000.00
6.	Daily wages for labor	5,500.00
7.	6mm grit	9,000.00
8.	Sand	9,000.00
9.	2000 Bricks	9,000.00
10.	Umar faruque labor charge	25,154.00
	Total	93,654.00

PRINCIPAL

J.S.S. Banashankari Arts, Commerce &
Shantikumar Gubbi Science College,
DHARWAD-580 004.

