Water conservation

The wastewater from the Botany department turned towards the garden

Water conservation

Water conservation

Water conservation

During the rainy season, the department of chemistry uses rainwater to lessen the burden on the water provided by the Municipal corporation. The flow of terrace water during the rain turned to the main tank by pipe and we use it for the departmental daily use. This is a small attempt to conserve water.

Water conservation

Water conservation

Water conservation

College has dug two wells to meet the daily water needs of the institution. The location of the wells is where the flow of rainy water percolates the adjoining place of the wells. We get perennial water from there. This is probably because of a small initiative to conserve water.

Water conservation

Water conservation

The college has installed a water sprinkler system for decoration purposes but it has been taken utmost care to reuse of water.

Water conservation

TECHNICAL REPORT

On

RAIN WATER HARVESTING SCHEME

For

Institutional Building

Arts Science & Polytechnic Workshop Buildings, S. No. 20, 21 (P), 22 & 23,
Village : Navghar, Vasai Road (W), Distt.: Palghar, Maharashtra- 401 202

Project Developers :

M/S VIDYA VARDHINI

Project Architect :

M/S SHILP SADHANA ARCHITECTS

Prepared By

M/s Green Care Solutions
217, Ambika Commercial Complex, Navghar, Vasai Road (E), Palghar : 401 210
Te.: 0250-2391299, Mob: +91- 9975975645 /08976011736
e-mail:gcsolutions@rediffmail.com

Water conservation

Check List for OC

Sr No.	Document For OC	Check Appropriate Box		
		Yes	No	Not applicable
1	Completion Certificate of RWH system	√		
2	No. of Rain Water Downtake pipes & final location of pipe	√		
3	Final Location of Fire hydrant & Pipe line	√		
4	Final Location of Septic tank / STP	√		
5	Final Layout Plan with location of RWH unit	√		
6	Final Section / Technical drawing of RWH unit	√		
7	CD with Geo tag of RWH unit with all documents photographs & Video Shooting.	√		

GREEN CARE SOLUTIONS ORWHC 005

Principal
PRINCIPAL
A. V. COLLEGE OF ARTS
K. M. COLLEGE OF COMMERCE
E. S. A. COLLEGE OF SCIENCE
VASAI ROAD, DIST. PALGHAR-401202.

Water conservation

Green Care Solutions
.....a destination for better environment

Ref. No.: GCS/RWH/015/2017

Date: 29/05/2017

To,
The DDTP,
VVCMC,
Virar (E), Dist: Palghar.

SUB: Completion Certificate for Rain Water Harvesting System for proposed Art Science Building & Polytechnic Workshop Building S. No. 20, 21 (P), 22 & 23, Village : Navghar, Taluka-Vasai, Dist .: Palghar.

REF: BP-968/W/1685

We hereby certify that the Rain Water Harvesting System as per our design is completed in above cited building to our satisfaction and as per the guidelines given under TPB-432001/2133/CR-230/01/UD-11, dated 10th March, 2005 and in the Notification No.: TPB-4307/396/CR-124/2007/UD-11, dated 6th June, 2007 issued by Government of Maharashtra.

The scrutiny sheet in standard format duly signed along with necessary documents, photographs, CD, Google image with latitude & longitude of site under reference is attached herewith for your perusal & ready reference. The completed work may please be accepted.

Thanking you,

Yours Faithfully,
For GREEN CARE SOLUTIONS

MR. SOURABH JAISWAR
Reg. No. : PRWHC-005
C.C. to Architect / L.E.

217, Ambika Commercial Complex, 2nd Floor, Navghar, Vasai Road (E), Dist. Thane, Maharashtra - 401 210
Tel: 0250-239 1299 Cell: +91-9975 975 645 / 9664 450 939 E-mail: gcsolutions@rediffmail.com

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Water conservation

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Water conservation

A. RUN OFF (DISCHARGE) CALCULAT ION

#	Type of Surface	Catchments Area	Area (Sq. m) (A)	Run off Coefficient (C)	Avg. Rain fall (m/hr)	Discharge (Run off) (Q=CIA) m^3	Total (m^3) Discharge (Q)
1.	RCC	Terrace area	3800	0.90	0.025	0.9 x 0.025 x 3800	85.5
2.	Paved Block	Pavement area	2700	0.85	0.025	0.85 x 0.025x 2700	57.30

B. VOLUME OF TERRACE WATER

Total Storm Water Flow = 85.5 m^3/hr

Considering 03 minute of retention time, volume = 4.2 m^3

Dimension of Ring Well = (1 m Ø x 4.5 m depth)

No of provided Ring Well = 2.0

C. VOLUME OFSURFACE WATER

Total Storm Water Flow = 57.3 m^3/hr

Considering 05 minute of retention time, volume = 4.70 m^3

No of percolation Pit = 04, Size (1.2 x 1.0 x 1.6) m

Storm water of paved area diverted into percolation Pit for ground water recharge.

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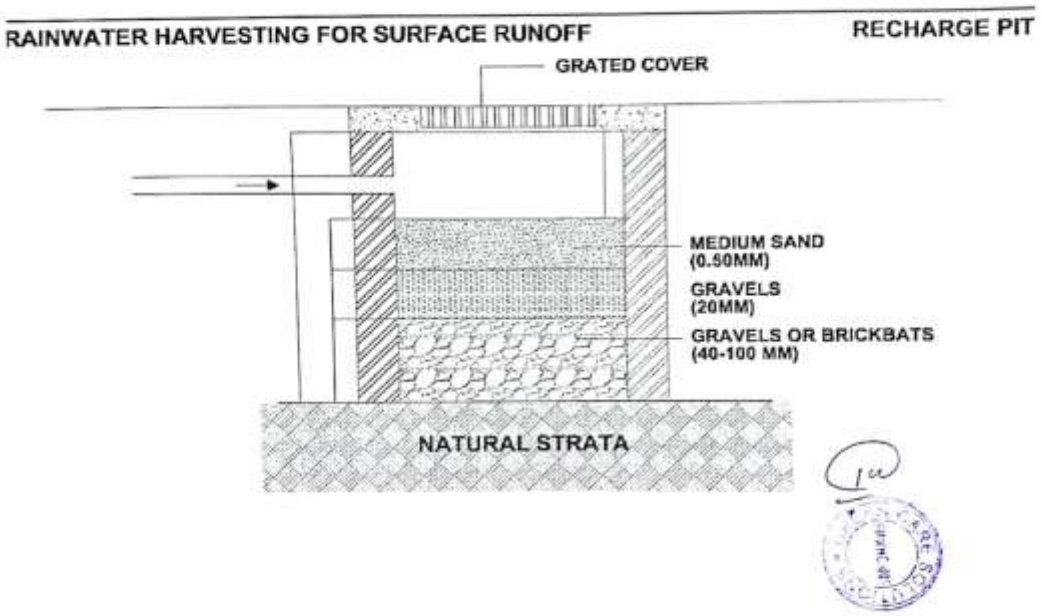
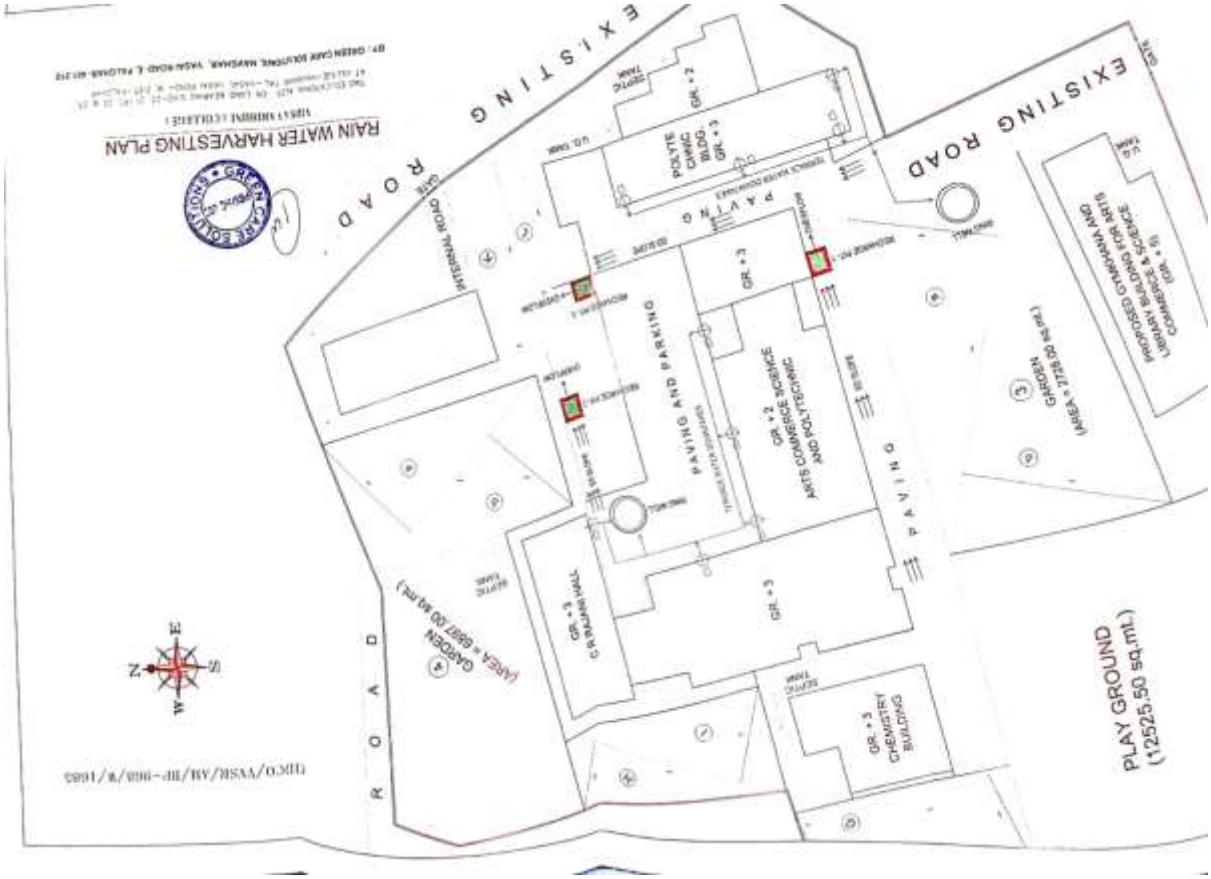
Water conservation





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Water conservation

RING WELL -1

RING WELL WITH FLUSH VALVE CHAMBER

RECHARGE PIT -1

VERTICAL FLUSH VALVE

RING WELL – 2

RECHARGE PIT- 2

RAIN WATER HARVESTING SNAPS

GREEN CARE SOLUTIONS PRNHC-005

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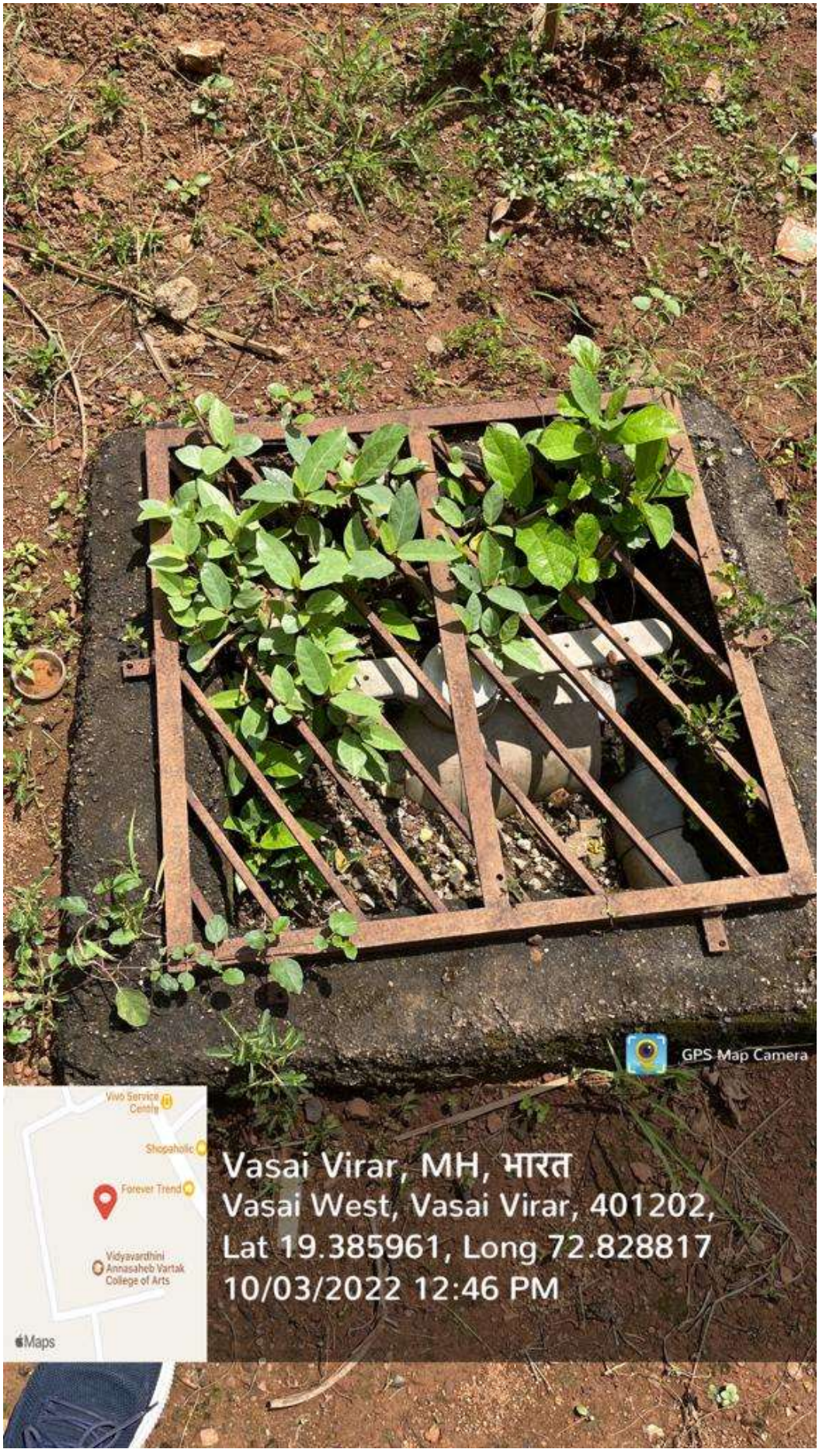
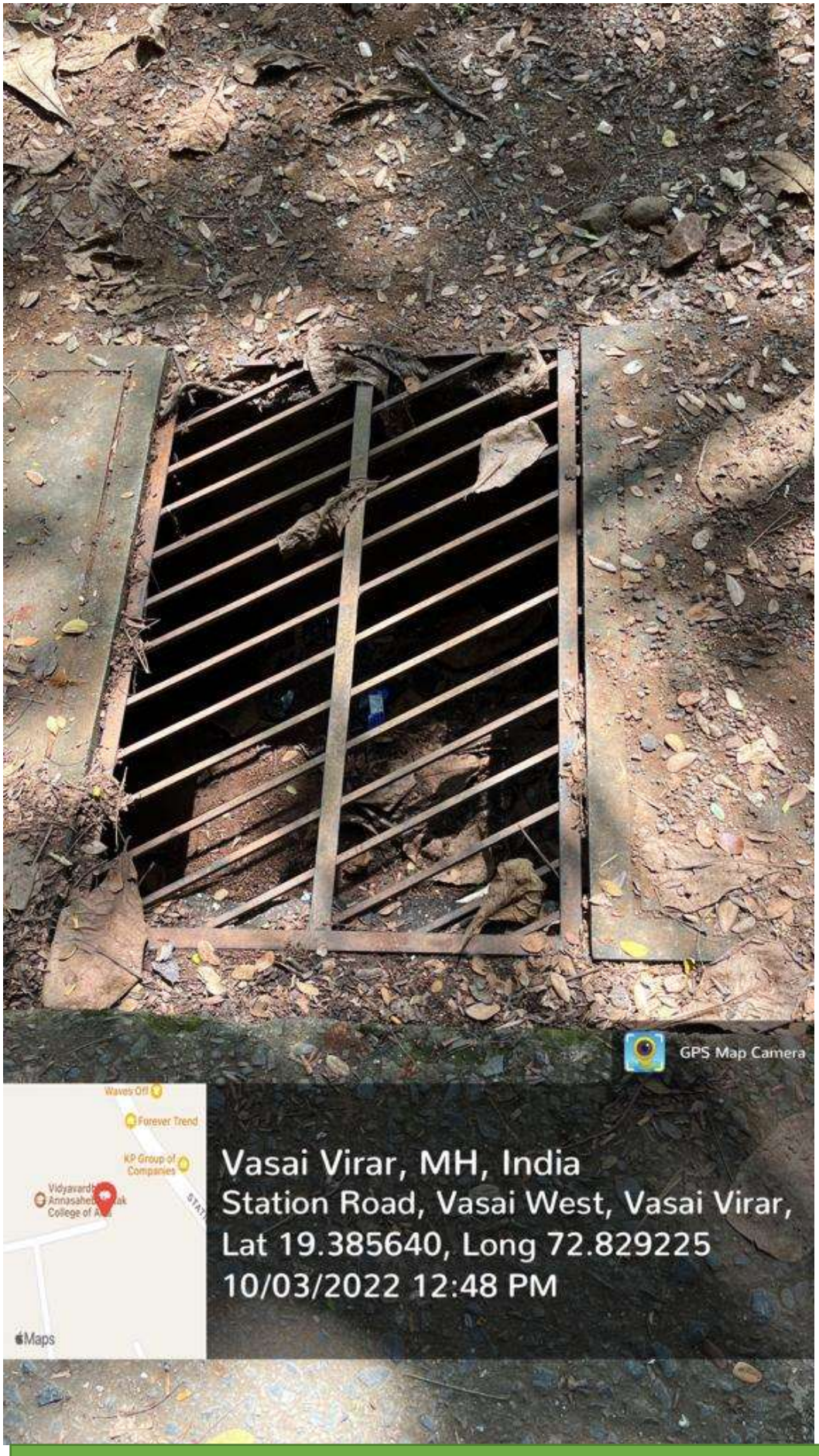
Water conservation



Recharge Pit 1, Roof water turned to near open well by pipe

Water conservation



Recharge Pit 2, Roof water turned through pipe for the water percolation in the campus

Water conservation

Recharge Pit 3, the flow of rainwater turned through pipe for the water percolation in the campus

Water conservation

Recharge Pit 4, the flow of rainwater turned through pipe near the open well.

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