



# KATWA COLLEGE

(Affiliated to the University of Burdwan)

Principal's Office,

P.O.: Katwa, Dist.: Purba Bardhaman, West Bengal, PIN: 713130, India.

Mobile: +918101078393

॥ विद्यया विन्दतेऽमृतम् ॥

## Institutional Facilities for Water conservation

Facilities available in the college:

### 1. Rain water harvesting & construction of tank:

There are two main ways of rain water harvesting are:

#### \*Surface run off harvesting:

In urban area, rain water flows away as surface runoff can be used recharging aquifers.

#### \*Rooftop rain water harvesting:

It is a system of catching rain water where it falls. The water stored by this ways is used for various purposes such as gardening, irrigation etc.

The katwa college had started initiatives for rain water harvesting from the month of May in the year of 2023 & constructed rain water harvesting project which is the collection of rain water that runs off from rooftop & this run off rainwater is recharged into the ground water table & a storage tank with rain water to be used in gardening, irrigation etc. College has set up rain water harvesting (ground water recharge circular shaped trough injection well) with the technical assistance of Public Works Dept.(PWD), Social Sector Purba Bardhaman, W.B. at the cost of Rs. 9,43,167.00.




**Rain water harvesting (ground water recharge circular shaped trough injection well)**

  
01/10/2024

Signature of the IOAC Coordinator

**Coordinator  
IQAC  
Katwa College**

  
01/10/2024

Signature of the Principal

**Principal  
Katwa College**



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## 2. Bore well / Open well recharge:

Katwa college has proper facilities of bore well for providing clean water in the college campus. There are 7 submersible pumps for supplying fresh & clean drinking water & also for other activities.

## 3. Waste water recycling:

The college has also made proper arrangement for recycling/ reuse of most of the waste water. Aqua guards placed in the different floors of the college building are purifying impure water stored in the rooftop water tanks & this water is used for drinking, washing, cleaning & watering in the garden.



Waste water recycling through soak pit

## 4. Maintenance of water distribution system in the college campus.

Water distribution system is disinfected on a regular basis in a scientific manner to provide clean & germ free water throughout the campus.

*[Handwritten Signature]*  
01/10/2024

Signature of the IOAC Coordinator

**Coordinator  
IQAC  
Katwa College**

*[Handwritten Signature]*  
01/10/2024

Signature of the Principal

**Principal  
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## Maintenance of water distribution system in the college campus

### Benefit of the work:

- \* Reducing water loss & saving natural water resources.
- \* Conserve water, helps in reducing water bill.
- \* Decreasing the demand of water.

### Water conservation measures:

Katwa College will implement the following measures to conserve water:


#### A. Maintenance & infrastructure:

- \* Regularly inspect & repair plumbing fixtures, pipelines to minimize leaks & wastage.
- \* Install water-efficient fixtures, such as low-flow toilets & faucets.
- \* Utilize rainwater harvesting systems.

  
01/10/2024

Signature of the IOAC Coordinator

**Coordinator  
IQAC  
Katwa College**

  
01/10/2024

Signature of the Principal

**Principal  
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## B. Awareness & Education:

- \* Conduct awareness campaigns, workshops & seminar to educate all the stakeholders of the college about water conservation practices.
- \* Display signage & posters reminding individuals to conserve water in common areas & outdoor spaces of the college campus.
- \* Incorporate water conservation topics into the curriculum where applicable.

  
01/10/2024

Signature of the IOAC Coordinator

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IQAC  
Katwa College

  
01/10/2024

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## Institutional Initiative Documents for Water Conservation

### Documents related to water conservation through Rain Water Harvesting and Ground Water Recharge

(59)

**KATWA COLLEGE**  
(Affiliated to the UNIVERSITY OF BURDWAN)

Principal's Office  
KATWA - 713130  
PURBA BARDHAMAN  
Tel. (03453) 255949  
E-mail: katcoll2009@gmail.com  
Website: www.katwacollege.ac.in

File No. DW-15 (Rain) /  
Sl. No. 1639  
Dated 4/9/23

Ref No. I-40/Building/123 Date- 26.08.2023

To  
The Executive Engineer,  
Bardhaman Division, P.W.D. - Social Sector,  
Jagat Berh, Suryanagar, Sripally, Purba Bardhaman, Pin-713103

Sub: Deposit Rs 7,07,500.00/- (Rupees seven lac seven thousand five hundred) only by Account Payee cheque bearing cheque No 734296 dated 26.08.23 in the State Bank of India, Katwa Branch for "Rain Water Harvesting"(Ground Water Recharge through injection well(circular Shape) at Katwa College with an estimated cost of Rs. 9,43,167.00/- Sir,

As per the decision of the Governing Body of Katwa College in its meeting held on 20.07.2023 and according to the decision taken by your office bearing Memo No. 1426/DW-15(Katwa) dated 09.08.2023, I would like to inform you that Rs 7,07,500.00/- (Rupees seven lac seven thousand five hundred) only, which has already been sanctioned by the Governing Body of Katwa College as 1<sup>st</sup> installment is hereby sent through peon book for necessary action towards "Rain Water Harvesting"(Ground Water Recharge through injection well(circular Shape) at Katwa College. It is also mentioned that the residual 25% of the estimated amount of the project or the excess amount (over the amount paid now) of the accepted lowest tender bid along with 3% Contingency, 18% GST and 1% Cess thereon whichever is less be paid after the tender process is completed. Please acknowledge the receipt of the cheque. Thanking you.

Yours faithfully,  
Principal  
KATWA COLLEGE  
Encl. Original cheque of Rs. 7,07,500.00/-

Remitted on 05/09/23  
Challan no. - 11 of 23-24  
As

copy to - Asstt. Engineer, Katwa  
Mobile No. for taking n.c. Pt.  
4/9/23

01/10/2024

Signature of the IOAC Coordinator

Coordinator  
IQAC  
Katwa College

01/10/2024

Signature of the Principal

Principal  
Katwa College



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KATWA COLLEGE  
KATWA: PURBA BARDHAMAN

Office Order

DATE: 24/08/23

As per the decision of the Governing Body, dated 20.07.2023, item No.16 (c) for "Rain Water Harvesting"(Ground Water Recharge through injection well(circular Shape) at Katwa College with an estimated cost of Rs. 9,43,167.00/-, Rs 7,07,500.00/- (Rupees seven lac seven thousand five hundred)only be approved for 1<sup>st</sup> installment for the said project. Accountant/Cashier of B.Ed. is requested to issue a cheque amounting to Rs 7,07,500.00/- (Rupees seven lac seven thousand five hundred)only from the General/Development Fund of B.Ed. in favour of the Executive Engineer, Burdwan Division, Social Sector, P.W.Dt for "Rain Water Harvesting"(Ground Water Recharge through injection well(circular Shape) at Katwa College.

*1805/KW*  
Principal  
Katwa College  
Principal  
KATWA COLLEGE

24/08/23

*h*  
01/10/2024

Signature of the IOAC Coordinator

Coordinator  
IQAC  
Katwa College

*1805/KW*  
01/10/2024

Signature of the Principal

Principal  
Katwa College



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Extract from the proceedings of the meeting of the Governing Body held on 20.07.2023 in the chamber of the Principal at 12.00 Noon.

**Item No: 16: (c)** The Principal places an estimate for the construction of "Rain Water Harvesting" (Ground Water Recharge through injection well (circular Shape) at Katwa College with an estimated cost of Rs. 9,43,167.00/-, which is prepared by Executive Engineer, Burdwan Division, Social Sector, P.W.Dte for discussion. After discussion the Governing Body unanimously approves the above mentioned project and resolved that for the entire works, the Executive Engineer, Burdwan Division, Social Sector, P.W.Dte Purba Bardhaman, Pin-713103 will issue the utilization certificate in the prescribed format after completion of the project so that the State Government rules and regulations can be fulfilled.

It is further resolved that a cross cheque amounting Rs. 7, 07,500.00/- (appx). (Rupees seven lac seven thousand five hundred) only from the General/Development Fund of B.Ed. section towards 75% of total Estimated Cost in favour of the Executive Engineer, Burdwan Division, Social Sector, P.W.Dte, for initialization of the said project. It is also resolved that the residual 25% of the estimated amount of the project or the excess amount (over the amount paid now) of the accepted lowest tender bid along with 3% Contingency, 18% GST and 1% Cess thereon whichever is less be paid after the tender processes is completed.

The Principal is empowered on behalf the G.B. to meet up the formalities relating to Administrative Approval and sanction of fund so that the entire project work be completed within a very short period of time.

Sd/Dr. Nirmalendu Sarkar  
Principal/Secretary  
Katwa College  
Governing Body


Sd/ Rabindranath Chatterjee  
President  
Katwa College  
Governing Body

Attested  
R. Sarkar  
24/08/2023  
Principal  
KATWA COLLEGE

  
01/10/2024

Signature of the IOAC Coordinator

Coordinator  
IQAC  
Katwa College

  
01/10/2024

Signature of the Principal

Principal  
Katwa College



# KATWA COLLEGE

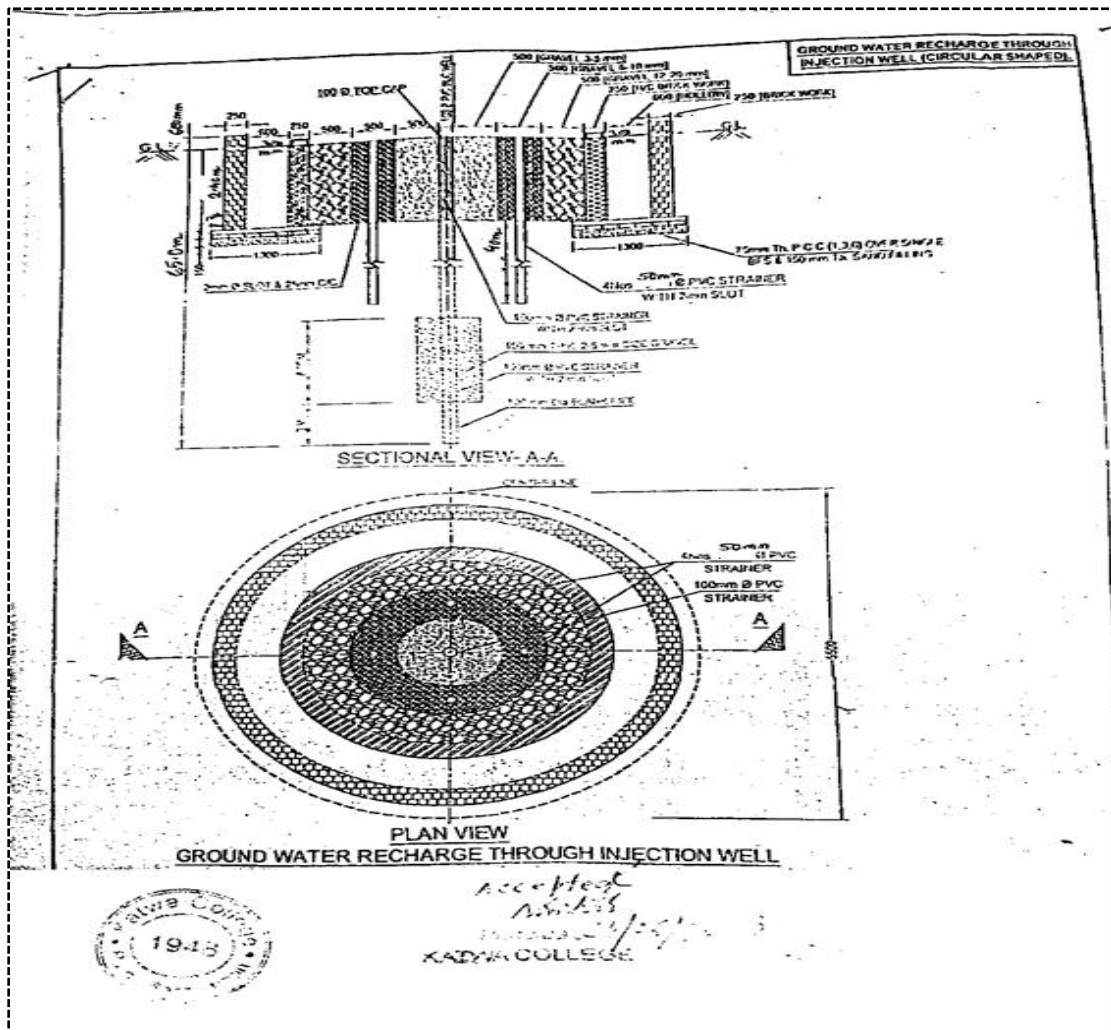
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*[Signature]*  
01/10/2024

Signature of the IOAC Coordinator

**Coordinator  
IQAC  
Katwa College**

*[Signature]*  
01/10/2024

Signature of the Principal

**Principal  
Katwa College**







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Estimate No. 48.../EE/BDN/  
SS/PWD/20. 23.20.24...

## PREFACING REPORT

Name of the Work : Estimate of "Rain Water Harvesting ((Ground Water Recharge Through Injection well (Circular Shaped)) At Katwa College, Katwa, In The District Of Purba Bardhaman."

Estimated Amount : ~~9,29,890.00/-~~ <sup>9,24,267/-</sup> <sup>9,12,167/-</sup> (Including GST 12%, Labour welfare cess 1%)

(RUPEES NINE LAKH TWENTY NINE THOUSAND EIGHT HUNDRED NINETY ONLY).

Rates and Specification : The latest rates & specifications of S.O.R. / Road & Bldg. Works of P.W.D./W.B., effective from 01.11.2017 are followed to prepare this estimate.

Brief History : This estimate has been framed out as per order of the Executive Engineer, burdwan, Social sector, P.W.Dte. vide memo no.-1026/DW-13, date -5/06/23, and requisition of college principal, Katwa College/ Purba burdwan, vide Memo no-31/Building/123, date-31-05-2023.

In this Rain water harvesting is collection of rain water that runs off from tops roof and this water run off can be recharged into the ground water table. So in this way UPVC pipes, a storage pit, inspection pit, Schedule 80 pipes, PVC strainer etc. are considered. There are some part of damaged building in the position where rain water harvesting project is planned. So some dismantling work are considered in this estimate accordingly. Hence, this estimate has been prepared and sent for sanction of the higher authority.

*[Signature]*  
Junior Engineer  
Katwa Sub-Division  
Social Sector  
P.W. Directorate

*[Signature]*  
19/7/23  
Assistant Engineer  
Katwa Sub-Division  
Social Sector  
P.W. Directorate

*[Signature]*  
Executive Engineer  
Burdwan Division  
Social Sector P.W. Dte.

*[Signature]*  
A. Saha  
Superintending Engineer  
Western Circle  
(Social Sector)  
P.W. Directorate  
Govt. of W. B.

*[Signature]*  
01/10/2024

Signature of the IOAC Coordinator

Coordinator  
IQAC  
Katwa College

*[Signature]*  
01/10/2024

Signature of the Principal

Principal  
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Government of West Bengal  
Office of the Executive Engineer,  
Burdwan Division, Social Sector P.W. Directt.  
Jagatberh, Surya Nagar, P.O.-Sripally, Dist. Burdwan.  
Ph.No.0342-2644154. Pin Code-713103  
Email Address : eeburdwandivcb @ gmail.com

Memo No:-1426/DW-15(Katwa) Dated:-09.08.2023  
To  
The Principal,  
Katwa College,  
Katwa, Purba Bardhaman.

Sub:- Submission of vetted estimate for the work  
i) Construction of a Gate in front of main road with some boundary wall under Katwa College, Katwa, in the District Purba Bardhaman of amounting Rs.14,12,771.00  
ii) Rain water harvesting {(Ground Water Recharge Trough Injection well (Circular Shaped)} at Katwa College, Katwa, in the District Purba Bardhaman of amounting Rs.9,43,167.00  
iii) Construction of boundary wall around the Boy's Hostel under Katwa College at Katwa College, Katwa, in the District Purba Bardhaman of amounting Rs.30,05,227.00

Ref:- His office memo no-i) 113/Building/123 dt: 19.07.2022. ii) 31/Building/123 dt: 31.05.2023. iii) 56/Boys' Hostel/84 dt: 15.07.2023

Sir,  
In connection with the above subject and reference, the undersigned is sending herewith the above mentioned estimate along with prefacing report for obtaining administrative approval and placement of fund.

Encl:- Estimate 03 (one each copy) sets.

Yours faithfully  
Executive Engineer  
Burdwan Division, Social Sector, P.W Dte.

Memo No:-1426/1(2)/DW-15(Katwa)  
Copy forwarded for information to:  
1. The Superintending Engineer, Western Circle, Social Sector, P.W.Dte.  
2. The Assistant Engineer Burdwan Sub-Division-1, Social Sector, P.W.Dte.

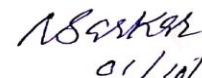
Dated:-09.08.2023

Sd/-Kanak Kumar Saha  
Executive Engineer  
Burdwan Division, Social Sector, P.W Dte

  
01/10/2024

Signature of the IOAC Coordinator

Coordinator  
IQAC  
Katwa College

  
01/10/2024

Signature of the Principal

Principal  
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DU-15  
1020  
2/6/23

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Principal's Office  
KATWA - 713 130  
Purba Bardhaman  
Tel: (03453) 255049  
M: 9749119550  
E-mail: katwa12002@gmail.com  
Website: www.katwacollege.ac.in

Ref: 31 /Building/123

To  
The Executive Engineer  
Bardhaman Division,  
P.W.D., Social Sector  
Jagat Serah, Surjanagar,  
Near Nilpur Pirtala Burdwan,  
Sripalli, Purba Bardhaman,  
Pin-713103.

Date: 31.05.2023

72  
4-132  
05/05/23

Subject: - Request to submit Plan & estimate for Rain water harvesting Project at Katwa College according to the essential necessity of the institute.

Sr.

I would like to request you to state that our institution wants to construct a Rain water harvesting Project.

For the above mention subject, I request you to visit our college at your earliest convenient date and also for selection of site for construction of Rain water harvesting Project and take necessary steps in this regard. The undersigned on behalf of Katwa College do hereby declare that the entire fund will be handed over to the P.W.D. Social Sector for execution of the project from our college fund for the project.

Thanking you,  
With regards  
Principal,  
Katwa College  
Copy to: Assistant Engineer,  
P.W.D., Social Sector,  
Palita Road, Katwa, Purba Bradhaman  
Copy to:- Assistant Engineer, Katwa  
Ref No- / /Building/ 123

ABENKAR 31/05/2023

Katwa College  
1948  
Purba Bardhaman

To: AE - Please give necessary details about preparation of estimate. Subject to approval of college.

Date:- 23.08.2022

Sri P. Saha  
Pl. Date  
as stated

Received  
Sub. Sect.  
12/05/23

with the college about discuss about the project. I may contact and discuss about the project. I may contact and discuss about the project. I may contact and discuss about the project.

Received  
2/6/23

Signature of the IOAC Coordinator  
01/10/2024

Signature of the IOAC Coordinator

Coordinator  
IQAC  
Katwa College

Signature of the Principal  
01/10/2024

Signature of the Principal

Principal  
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## Total Amount of Rain Water Harvesting Annually in liters

  
Government of West Bengal  
Office of the Assistant Engineer  
Katwa Sub Division, Social Sector, P.W. Dte.  
Palita Road, Katwa, Purba Burdwan, Email: aekatwasubdivnss@gmail.com

Memo No.: 216/A-178 Dated: 24-09-24

Sub:- Calculation of Rain water discharge for the work "Rain Water Harvesting((Ground Water Recharge Trough Injection well(Circular Shaped)) At Katwa College, Katwa, In The District Of Purba Bardhaman."

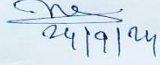
Tender no.- 42/A/EE/BDN/SS/PWD OF 2021-2022

The rain water harvesting potential from roof top(From main Building)=  $A \times R \times C$   
=  $482 \times 1.359 \times 0.85$   
= 556.78 cum or 556780.00 liters

The rain water harvesting potential from roof top (From NCC, NSS & Geography Building )  
=  $A \times R \times C$   
=  $240 \times 1.359 \times 0.85$   
= 277.24 cum or 277240.00 liters

Total Rain water harvesting potential annually is = 834020.00 liters

Where, A=considering a roof top area in square metre  
R= the annual rainfall in metre  
C=Runoff Coefficient factor  
Capacity of filter tank= 9000.00 Litres (Approx) when peak intensity of rainfall period 15 minutes.


  
24/9/24  
Assistant Engineer  
Katwa Sub-Division  
Social Sector  
P. W. Directorate

Certificate from competent authority from office of the Assistant Engineer Katwa Subdivision, Social Sector, P.W.Directorate, WB

  
01/10/2024

Signature of the IOAC Coordinator

Coordinator  
IQAC  
Katwa College

  
01/10/2024

Signature of the Principal

Principal  
Katwa College