



RAMAKRISHNA MISSION SIKSHANAMANDIRA

(A NCTE recognized Govt. Aided (WB) Autonomous Post-Graduate College under University of Calcutta)
Belur Math, Howrah - 711 202, West Bengal

7.1.4: Institution has water management and conservation initiatives in the form of

1. Rain water harvesting
2. Reservoirs/tanks/ bore wells
3. Economical usage/ reduced wastage

Documentary evidence in support of the claim



Swami Vidyamritananda
Principal (Offg.)
Ramakrishna Mission Sikshanamandira
Belur Math, Howrah-711202, W.B.



Rain water harvesting:

Rooftop rainwater harvesting:

In an era marked by increasing concerns over water scarcity and environmental sustainability, the implementation of innovative water conservation measures has become imperative. There is a dedicated rooftop water harvesting system adopted by our esteemed academic institution. By leveraging the natural resource of rainwater, this system presents an effective solution to mitigate water scarcity while promoting eco-friendly practices. Through a meticulous design and efficient utilisation of rooftop surfaces, our institution's water harvesting system serves as a testament to our commitment to sustainability and responsible resource management.

The following are the steps of the rooftop water harvesting system adopted by the college:

1. **Collection:** The rooftop water harvesting system begins with the collection phase, where rainwater is captured from the institution's rooftops. This is achieved by strategically placing gutters, downspouts, and filters (mesh at the end of pipes) to ensure efficient and clean water collection.
2. **Conveyance:** Once collected, the rainwater is conveyed through a series of pipes and channels to direct it towards a storage facility. This network ensures that the water flows smoothly and is efficiently transported from the rooftops to the storage unit.
3. **Storage:** The harvested rainwater is then stored in a dedicated storage facility, i.e., an above-ground cistern. The cistern is designed to accommodate the anticipated water demand of the institution and provide a reliable reserve during periods of water scarcity.
4. **Distribution:** Finally, the stored rainwater is distributed for various uses within the academic institution. It is utilised for irrigation of landscaping, cleaning purposes, and it can be further used for flushing toilets or even as a supplementary source for non-potable water needs, reducing the reliance on institution's primary water supply and promoting sustainable water management practices.

Sometimes the collected rainwater from the rooftops is directly distributed to embanked garden and lawn areas with structured drainage systems for the water to slow down and percolate to ground aquifers and in case of excess, to drain and avoid waterlogging. Which also acts as a ground water harvesting mechanism.

Ground rainwater harvesting:

In a similar way, the college also has a ground water harvesting mechanism in place. The following are the steps of the same:

1. **Sump Collection:** The ground water harvesting system begins with the installation of sumps, which are excavated depressions in the ground designed to collect rainwater runoff. These sumps are strategically placed in areas with high water accumulation potential, such as catchment areas or low-lying regions.
2. **Drainage System:** A network of drainage channels and pipes is established to channelize the excess rainwater towards the sumps. These channels are designed to intercept surface runoff and divert it into the sumps, preventing waterlogging and ensuring efficient collection of rainwater for recharge purposes.
3. **Recharge Mechanism:** Once the rainwater is collected in the sumps, it percolates down



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into the ground through the process of infiltration, recharging the underlying aquifers. To facilitate this recharge, the sumps have been filled with coarse materials like gravels or boulders to aid water infiltration.

4. Groundwater Level Enhancement: The collected rainwater gradually replenishes the groundwater table, enhancing the overall groundwater levels in the region. This sustainable groundwater harvesting system helps mitigate water scarcity, improves groundwater availability, and promotes the long-term sustainability of water resources in the area.

TAX INVOICE						Original/Duplicate/Triple
Hazra, PO+Vill- Nutan Mahula urshidabad, Pin:742134 Bengal, Mobile:9614796825 id: sagarhazra2181@gmail.com IN:19AEAPH1815E1ZO (Composite Scheme)				Invoice No: SH/ 50 / 19-20		
				Invoice Date: 08.09.19		
				Work Order No:		
ed To: Ramakrishna Mission Sikshanamandira, Belurmath, Howrah, 711202						
TIN:						
Sl	Description of work	Quantity	Unit	Rate	Amount	
1.	4" New Pipe line fixing work in front of college building.	169	ft.	26/-	4394/-	
2.	Soil cutting and refilling work	127	ft.	15/-	1905/-	
3.	Hole cutting and repair work	10	Nos.	120/-	1200/-	
4.	Sink opening and new basin fixing in GF veranda.	1	No	300/-	300/-	
5.	Basin waste line making	27.	ft.	18/-	486/-	
6.	Post fixing including soil cutting concreting and soil refilling work	3	Nos.	1000/-	3000/-	
7.	Basin opening, pipe opening, aqua guard opening, pipeline repair, AC pipe line fixing work etc work in college main building.	2	Plumbers Maner	450/-	900/-	
8.	Structure paint near gate man room and Board Paint			1500/-	1500/-	
9.	NEW ferul line making including new ferul fixing, line making, down line connection work etc all complete.			2000/-	2000/-	
Total invoice amount in words: Fifteen thousand six hundred eighty five only.					Total: 15685/-	
Bank Details:				Sagar Hazra		
Bank A/C: 0365050004442				Sagar Hazra		
Bank: United Bank of India				Authorized Signatory		
Branch: Belur Math						
IFSC Code: UTBI0BEM958						

Please pay tax
Plumbing repairing
and new garden
pipe fittings.
Br. Gopinath
9/9/19.

Bill related to new rainwater pipe line upgradation and excavation works for sumps

“Education is the manifestation of the perfection already in man.”

- Swami Vivekananda



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Reservoirs/tanks/ bore wells:

The rainwater harvesting storage facility in our academic institution is a meticulously designed structure that serves as a crucial component of our sustainable water management system. Nestled discreetly within the campus, the storage facility is strategically located to maximise rainwater collection efficiency while seamlessly integrating with the surrounding landscape.

The storage facility is carefully engineered to accommodate a substantial volume of harvested rainwater. The reservoir is constructed using concrete to ensure longevity and resistance to corrosion, safeguarding the integrity of the stored water.

To facilitate easy access and maintenance, the storage facility is equipped with secure cover for convenient access. This enables routine inspections, cleaning, and maintenance operations to be carried out efficiently and safely.

The storage facility seamlessly integrates with the institution's water distribution network, allowing for easy access and distribution to various points of use within the campus. The stored rainwater is distributed for various uses within the academic institution. It is utilised for irrigation of landscaping, cleaning purposes, and it can be further used for flushing toilets or even as a supplementary source for non-potable water needs, reducing reliance on external sources and promoting sustainable water usage practices.

Overall, the rainwater harvesting storage facility stands as a testament to our institution's commitment to environmental stewardship, conservation, and responsible water management. It exemplifies our dedication to leveraging natural resources efficiently while providing a reliable and sustainable water source for the academic community.

NAAC Re-accredited - 'A'

RAMAKRISHNA MISSION SIKSHANAMANDIRA
(An Autonomous Post-Graduate College under the University of Calcutta under section 22 of the UGC Act and duly recognized by the NCTE) College with Potential for Excellence (CPE), College of Teacher Education (CTE) & Swami Vivekananda Centre for Multidisciplinary Research in Educational Studies (SVMRES) Phone No. - (033) 2654 - 9281/6081/1635
Belur Math, Howrah - 711 202, West Bengal.

Voucher No. 1010
Date 09/02/2021

Debit fees & ch. / Section ch. building

Particulars: Pay to Sri. Taimata & Builders

on account of cost of building materials for
volley ball ground, office tiles fitting, Mangate water well
and well repairing works. open bills attached.

bill no. 55 & 08/10/2020. 1750/-
69 & 09/10/2020. 1660/-
70 & 15/12/2020. 4725/-
78 & 25/12/2020. 3610/-
83 & 03/01/2021. 4200/-

₹	
15,945	00
15,945	00

Please pay Rupees (fifteen thousand nine hundred forty five) only.

Office Superintendent _____ Principal _____ Vice Principal _____ Secretary _____

Date _____ Received the amount in full stated above _____

Sayal Ghosh
Signature

Voucher of Payment related to making walls of rainwater harvesting reservoir

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CHALAN / TAX INVOICE		(ORIGINAL FOR RECIPIENT)	
B P BLOW INDUSTRIES - (From 1-Apr-2017) 3/1, TARACHAND GANGULLY STREET BELUR, HOWRAH, WB SHOP 285, G T ROAD LILUAH, HOWRAH GSTIN/UIN 19AAHF89997J1Z1 State Name West Bengal, Code 19 Contact 9007013852, 9007013853 E-Mail bpblowindustriert@gmail.com		Invoice No 18-19/0335	Dated 18-Jul-2018
Buyer RAMAKRISHNA MISSION SIKSHANAMANDIRA BELURMATH, HOWRAH-711202 MOB -9073695474 State Name : West Bengal, Code : 19		Delivery Note	Mode/Terms of Payment
		Supplier's Ref.	Other Reference(s)
		Buyer's Order No.	Dated
		Despatch Document No.	Delivery Note Date
		Despatched through	Destination
		Terms of Delivery	

SI No	Description of Goods	HSN/SAC	GST Rate	Quantity	Rate	per	Disc %	Amount
1	TISCON-TMT IS1786 FE500SUP 8.00MM	7214	18 %	25 Pieces	264.41	Pieces		6,610.25
2	TISCON-TMT IS1786 FE500SUP 16.00mm	7214	18 %	8 Pieces	1,024.58	Pieces		8,196.64
								14,806.89
CARRIAGE OUTWARD								100.00
Output CGST								1,341.62
Output SGST								1,341.62
Less : Round Off on Sale								(-).13
Total					33 Pieces			₹ 17,590.00 E & O E

Amount Chargeable (in words)
INR Seventeen Thousand Five Hundred Ninety Only

HSN/SAC	Taxable Value	Central Tax Rate	Central Tax Amount	State Tax Rate	State Tax Amount	Total Tax Amount
7214	14,906.89	9%	1,341.62	9%	1,341.62	2,683.24
Total			1,341.62		1,341.62	2,683.24

Tax Amount (in words) : **INR Two Thousand Six Hundred Eighty Three and Twenty Four paise Only**

Company's PAN : **AAHF89997J**

Declaration : We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct.

for B P BLOW INDUSTRIES - (From 1-Apr-2017)
 Authorised Signatory

For further information please call 1800 345 8282 (Toll Free)
 This is a Computer Generated Invoice

Please paid for the purchasing red purpose at Dhaka at basement at shifting at water tank. Br. Kauria.

Bills related to purchasing of TMT bars for the rain water harvesting reservoir

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Economical usage/ reduced wastage:

1. **Periodic Monitoring:** The college initiates a comprehensive and periodic monitoring of areas of high water consumption and potential sources of wastage such as leaks, broken taps e.t.c.. By monitoring the same the institution can pinpoint opportunities for improvement and track progress over time.
2. **Efficiency Measures:** Implementing water-efficient fixtures and appliances, such as dual flush toilets, Faucets aerators, helps reduce water consumption without compromising functionality.
3. **Water Recycling and Reuse:** The college uses rainwater harvesting systems. Collected and stored water is used for landscape irrigation or other appropriate uses, reducing reliance on freshwater sources.
4. **Educational Campaigns and Awareness:** The institution conducts educational campaigns to raise awareness among staff and students about the importance of water conservation. By promoting water-saving practices, providing tips for efficient water usage, and encouraging behavioural changes, the institution fosters a culture of responsible water consumption.
5. **Partnerships and Collaboration:** The institution seeks partnerships with local water authorities, environmental organisations, and other stakeholders to leverage awareness creation, resources, expertise, and funding opportunities. Collaborative efforts can support the institution's water conservation goals, share knowledge, and foster a collective approach to address water challenges in the region. For example, Sikshanamandira organises various awareness campaigns related to water conservation with Howrah Jela Joutho Paribesh Mancha.

Link: [MoU with Howrah Jela Joutho Paribesh Mancha](#)



World River Day celebration

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Sagar Hazra, PO+Vill- Nutan Mahala Murshidabad, Pin: 742134 West Bengal, Mobile: 9614796825 Email: sagarhazra2181@gmail.com GSTIN: 19AEAPH1815E1ZO (Composite Scheme)		Invoice No: SH/21-22/29		Invoice Date: 28-01-22	
Billed To: Ramakrishna Mission Sikshanamandira Belur Math, Howrah - 711202		Work Order No:			
GSTIN:					
Sl	Description of work	Quantity	Unit	Rate	Amount
1.	Store making work pipe cutting, drilling work, pipe fixing work 16.12.21 to 17.12.21	.		3000/-	3000/-
2.	Toilet making work pipeline connection work 1" PVC line fixing tin shed	75M 75L 9.14mtr	M L mtr	550/- 450/- 286/-	41250/- 33750/- 26190/-
3.	Bathroom white cement, Khat skitting work boundary wall wash, store cleaning college side pipe line repair work	9M 15L	M L	550/- 450/-	49500/- 67500/-
	1.12.21 - 1M 0 7.12.21 x 1L 8.12.21 x 1L 9.12.21 x 1L 10.12.21 x 1L 13.12.21 x 1L 14.12.21 x 1L 15.12.21 x 1L 18.12.21 x 1L 10.01.22 1M x 11.01.22 1M 1L 12.01.22 1M 1L 14.01.22 1M 1L 15.01.22 1/2M 1/2L 16.01.22 1M 1L 22.01.22 1/2M 1/2L 23.01.22 1M 1L 24.01.22 1M 1L 9M 15L				
Total invoice amount in words: Eighteen thousand sixty three only.				Total:	18063/-
Bank Details:		Sagar Hazra			
Bank A/C: 0365050004442		Sagar Hazra			
Bank: Punjab National Bank		Authorized Signatory			
Branch: Belur Math					
IFSC Code: PUNB0036520					

Please pay for Main gate Bio toilet Pipe line work and advance. Br. Srinivas Chatterjee

Bills related to installation of water saving dual flush toilets and Bio toilets at the main entrance

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