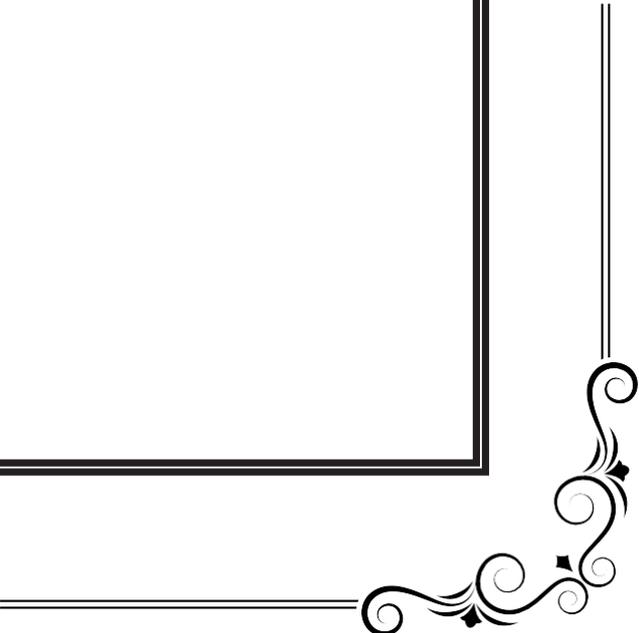


**3. Water Conservation through building tanks,
bunds, pond and borewell construction**





ENVIROSPEC
77A/72 Raja S. C. Mullick Road
P.O. Regent Estate
Kolkata – 700 092
Phone: 033 - 2412 1573
E-mail: enspek@gmail.com

Ref: ENPQ/2019 - 21
Date: 08.07.2019

To
The Principle
Sammilani Mahavidyalaya
EM Bypass, Baghajatin
Kolkata : 700094

Sub: Offer for rainwater harvesting system

Dear Sir,
Please refer to discussion had with you regarding rainwater harvesting at your college and our subsequent visit, we are submitting follows our offer.

Rainwater Harvesting System:

Rain water harvesting is the process for optimum utilization of rainwater by direct uses in productive system or redirection in storage. As per our preliminary observation and study, the total rooftop catchment area of the building and shed is approximately 340 sq. m and the minimum runoff volume available from the rooftop area is approximately 370 cu. m per annum. This rooftop rainwater can be easily harvested either by reuses or recharges to aquifer subject to techno economical evaluation.

A considerable quantity of water is required in school & colleges and major portion is used in many applications i.e. laboratory, bathroom, toilet, canteen etc. Rooftop rainwater can be easily utilized in these applications by implementing a proper harvesting system. Rain water is basically a natural gift and its quality is as good as RO. So we are proposing here a harvesting system only by reuses in your own applications. We are submitting an offer for a system for rainwater collection & treatment for re-uses based on following considerations.

Basis of consideration

Method of harvesting	: Rooftop runoff water harvesting for reuses
Proposed reuses areas	: Laboratory, Canteen Bathroom & Gardening
Total rooftop catchment area	: 340 Sq. M (approx)
Average annual rainfall	: 1600 mm (considered)
Rooftop RWH potential	: 370 Cu. M per annum (approx)
Peak hourly rainfall intensity	: 25mm/hr at 20 min duration
System description	: Screening, first-flush, collection & filtration
Component	: Drain pipe, strainer, first flush drain, AT FILTER Storage.


Principal
Sammilani Mahavidyalaya
E.M. Bypass, Baghajatin
Kolkata-700 094

System details:

The roof top rainwater shall be conveyed through a proper piping system by interconnecting raindrop line and the water will be collected in a HDPE storage tank through first flush arrangement. The first part of the rain carries mainly dist particles which will be discharged through the first flush and discharged quantity shall be accordingly adjusted as per design based on study and observation. The collected water will be filtered next through a well design pressure filter for arresting colloidal particles. The filtered water will be transferred to a distribution tank on roof of the canteen building for utilization.

Technical Specification with scope of supply for recycling system

Sr. No	Description	Qty.	Scope of Supply
1	PVC rain pipe laying for interconnection of the rain drop for conveying rainwater from rooftop to de-silting cum storage tank.	60M	Envirospec
2	Incorporating first flush system with leaf strainer at inlet of the primary storage tank	1No.	Envirospec
3	HDPE tank of capacity 2000 liter for de-silting cum primary storage	1 No.	Envirospec
4	Forced filtration system comprising a pressure filter of capacity 1000 liter/hr with feed pump, necessary valve & fittings complete	1Set	Envirospec
5	HDPE tank of capacity 500 liter for filtered water storage at roof of the canteen building	1No.	Envirospec
4	Pipe laying from the final storage to respective building uses as per design	1No	By Customer

Price Schedule

Description	Price
Price for rainwater harvesting system (RWS) comprising pressure filter with feed pump, 2000 liter HDPE primary storage, 500 liter filtered water storage including 60M connecting pipeline with first flush arrangement complete as per scope of work.	Rs. 59,300/-
GST @18%	Rs. 10,674/-
Total	Rs. 69,974/-

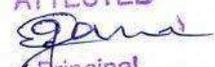
NB: 1. The price for conveying pipeline length has been considered 60m. Additional piping if required during final design and installation shall be charged extra at actual.
2. Chlorination system if required for disinfection shall be extra at actual.

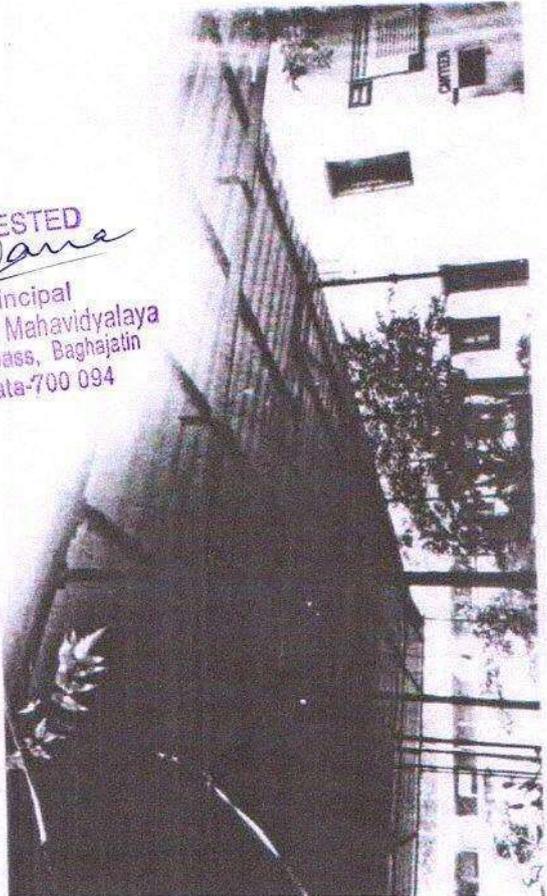
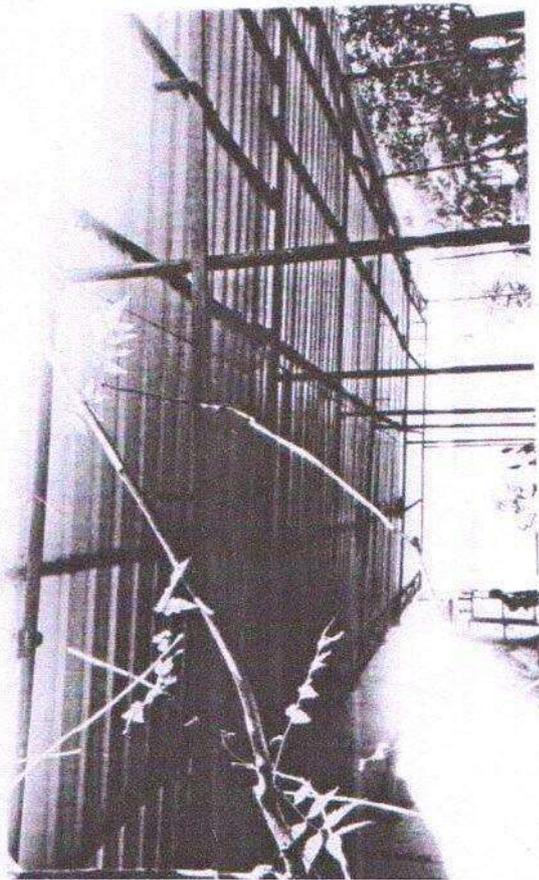
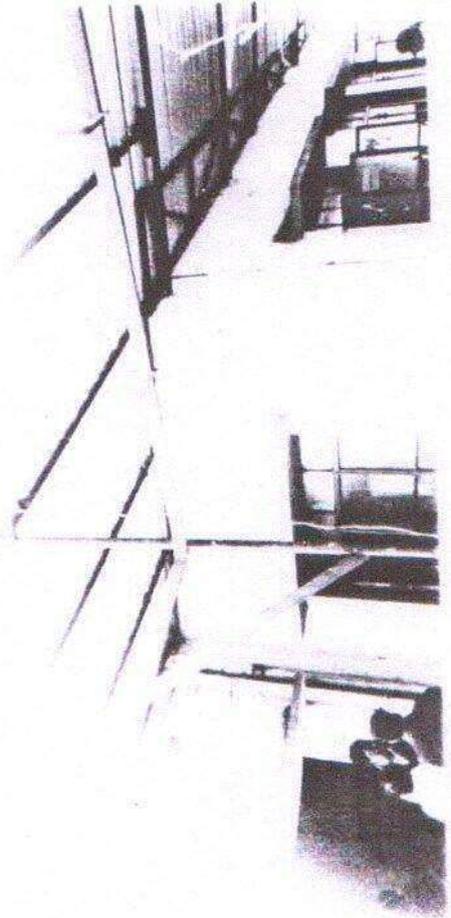
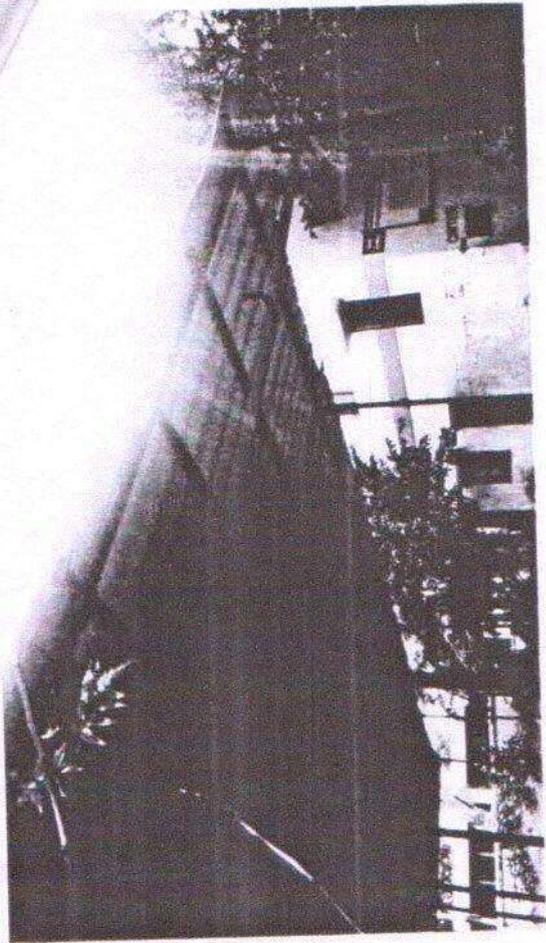
Commercial terms & conditions

Completion period	4 weeks from the date of PO.
Validity	30 days
Payment Terms	70% as advance along with your confirmation. 30% against completion of work.

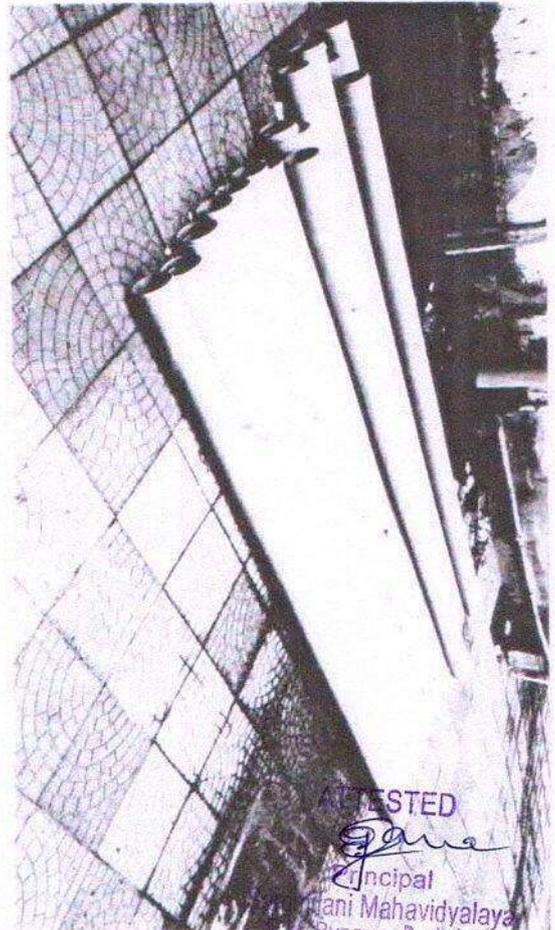
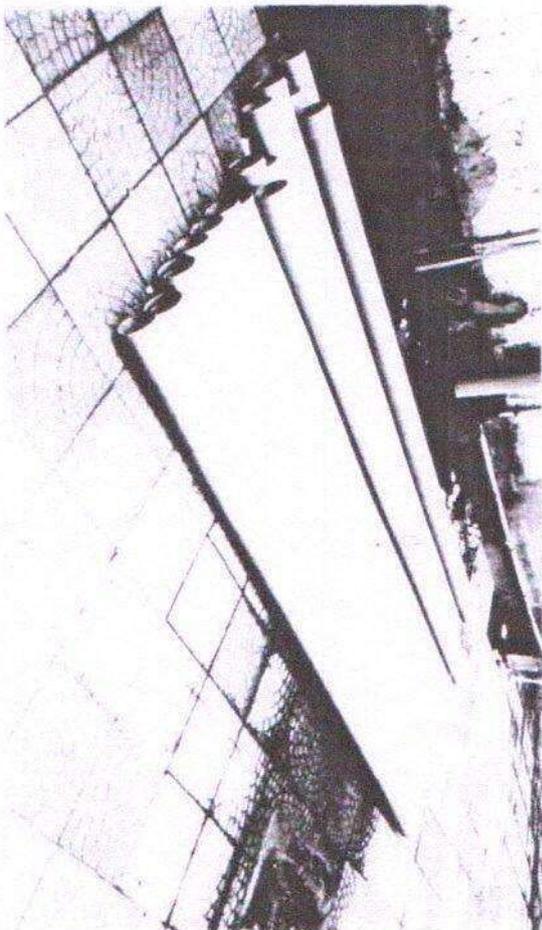
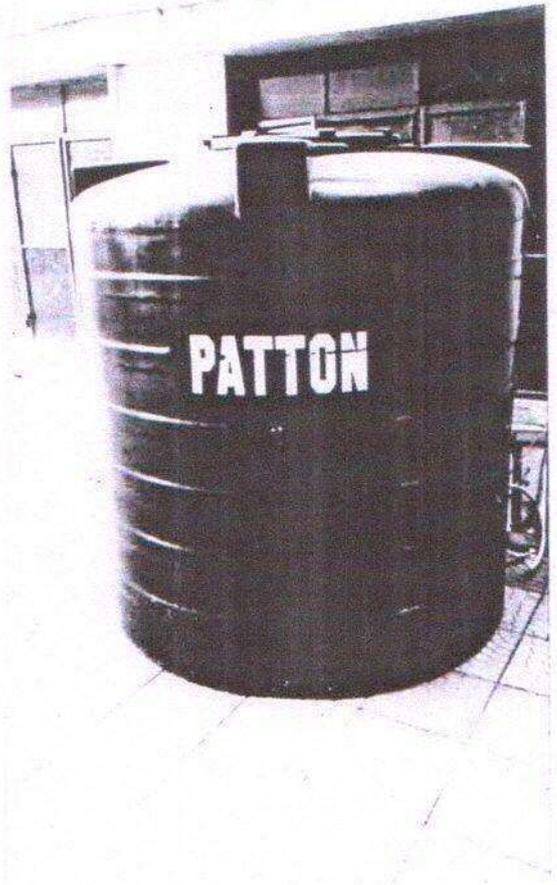
With Regard
For **Envirospec**

Sumit Roy
Mob No: 09830028439

ATTESTED

Principal
Sammilani Mahavidyalaya
E.M. Bypass, Baghajatin
Kolkata-700 094



ATTESTED
Jana
Principal
Sammilani Mahavidyalaya
E.M. Bypass, Baghajatin
Kolkata-700 094



TESTED
Gane
Principal
Jagadgurukul Mahavidyalaya
E.M. Bypass, Baghajatin
Kolkata-700 094

Water Conservation

Geo-tagged Photos of Waste Water from ACs



Geo-tagged Photos of Rain Water Harvesting

