

DELHI JAL BOARD: GOVT. OF NCT OF DELHI
OFFICE OF THE EXECUTIVE ENGINEER (RWH/GWC)-I
ROOM NO. 209, VARUNALAYA PHASE-I
KAROL BAGH, NEW DELHI - 110005
23558264

No./DJB/EE(RWH/GWC)-I/2022/141

Dated:- 23/03/2022


Sub:- Submission of Rain Water Harvesting System installed at Govt./Pvt. Schools and Colleges in Delhi.

Ref:- NGT O.A. 217/2016, Mahesh Chandra Saxena V/s Ministry of Urban Development & Others.

As per Hon'ble NGT court orders it is mandatory to install Rain Water Harvesting System in all Govt./Pvt. Schools and Colleges. The Hon'ble NGT is monitoring the above said matter.

You are requested to furnish the latest status of Rain Water Harvesting Systems installed at Govt./Pvt. Schools and Colleges of Delhi University under your control in the prescribed format enclosed herewith.

You are also requested to make necessary arrangements to facilitate the technical team of RWH Cell, DJB to inspect all the Govt./Pvt. Schools and Colleges of University Campus in Delhi, in compliance to


EE(RWH/GWC)-I

To,

1. The Registrar, Delhi University,
University Campus,
Delhi-110007
Email: registrar@du.ac.in
2. Director Education, Govt. of NCT Delhi,
Old Secretariat Near Vidhan Sabha,
Civil Lines, New Delhi-110054
Email: director.education@ndmemail.gov.in
3. Director, CBSE Board,
PS 1-2, Institution Area, IP Extension,
Patparganj, Delhi-110092
Email: directoracad.cbse@nic.in
info@gov.in

SRI AUROBINDO COLLEGE

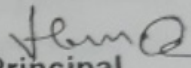
Dated :

09.06.2011

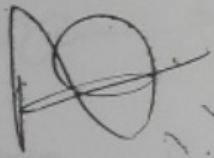
OFFICE NOTE

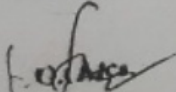
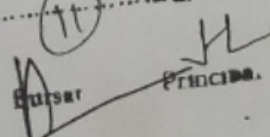
The College, is implementing rain water harvesting scheme in the college premises. In this regard the college approached the PWD. The PWD directed the college vide letter no. DB(23)/सि. मं. अनु. मं. एम-122/दि. मं./१११ dated 15.05.2011 to deposit Rs.5,87,650/-. The necessary documents are enclosed for your perusal and reference.

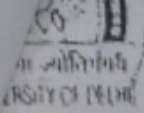
Submitted for approval.


Principal

Anakshi Khular 9-6-2011
Prof. Enakshi Sharma (Chairperson)
UNIVERSITY REPRESENTATIVE ON THE GOVERNING BODY
SRI AUROBINDO COLLEGE


J. Kaur

Amount Rs. 5,87,650/- Seven Thousand
Rupees five lac eighty seven
Head of A/c five thousand & fifty only
B. No. 467552 dt. 20-07-2011
Voucher No. (11)
 J. Kaur
 Principal



SRI AUROBINDO COLLEGE

(University of Delhi)

MALVIYA NAGAR, NEW DELHI-110017

E-mail : principal@ aurobindo.du.ac.in

श्री अरविन्द महाविद्यालय

(दिल्ली विश्वविद्यालय)

मालवीय नगर, नई दिल्ली- 110017

Ref. No. SAC/2011/2250

Dated : 09.06.2011

The Directorate of Higher Education
Govt. of NCT of Delhi
Sham Nath Marg
Delhi

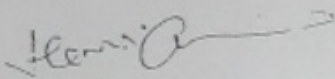
Sub.: Implementation of rain water harvesting scheme.

Sir,

The College is implementing rain water harvesting scheme in the college premises. In this regard the college approached the PWD. The PWD directed the college vide letter no. DB(23)/सि.मं.अं.सं.सम-122/दि.सं./888 dated 15.05.2011 to deposit Rs.5,87,650/-. The necessary documents are enclosed for your approval / permission for executing the above work. You are, therefore, requested to do the needful.

Thanking you,

Yours faithfully,


Principal

Encl: As above



दिल्ली सरकार

लोक निर्माण विभाग



सिविल भवन अनुरक्षण मण्डल एम-122

फुलेम रोड, मालवीय नगर, नई दिल्ली 110027, दूरभाष 26543110, फैक्स 26549913

ई-मेल - chmdm122pts@gmail.com

संख्या - DI:(73)/14000-अ-1050 एम-122/ROHD

855

K-84

18/5/21

सेवा -

प्रधानाध्यक्ष,
श्री अरविन्दो कोलेज,
मालवीय नगर,
नई दिल्ली ।

विषय :- Implementation of rain water harvesting scheme at Sh. Aurobindo Collage Malviya Nagar (SH :- C/o Recharge pit and providing and laying RCC pipe line).

महोदय,

उपरोक्त कार्य का प्रारम्भिक प्रकल्पन रुपये 5.87,650/- के लिए सशम अधिकारी से प्रशासनिक अनुमोदन और व्यय स्वीकृति के लिए संलग्न है । अनुमान तैयार करने की आवश्यकता को अनुमान की रिपोर्ट शीट में वर्णित कर दिया गया है ।

निवेदन है कि सशम अधिकारी से प्रशासनिक अनुमोदन और व्यय स्वीकृति लेकर इसे कार्यालय से प्रेषित करें ।

कार्यपालक अभियन्ता

डि:050-अ-2050 एम-122,

डि:050, फि:040ए:50 मालवीय नगर,
नई दिल्ली ।

प्रतिलिपि प्रेषित सूचनाएं एवं आवश्यक कार्यवाही हेतु प्रेषित है :-

1. अर्थक्षेत्र अभियन्ता, सिविल भवन अनुरक्षण मण्डल एम-12, लोक निर्माण विभाग (दिल्ली सरकार), नूतन विहार, नई दिल्ली ।
2. महापक्ष अभियन्ता, सिविल भवन अनुरक्षण मण्डल एम-1222, लोक निर्माण विभाग (डि:050), नई दिल्ली ।

Dr. Anu Meeta Mathur
Signature
18/5/2021
535

कार्यपालक अभियन्ता

Work - Implementation of rain water harvesting system in collage Malviya Nagar (NH-10) Recharge and protection of water supply

Estimate No. 100/2017
Date 10/08/2017
City Engineer & Manager

The preliminary estimate amounting to Rs. 5,87,650/- including 10% Contingency and 1% Labour Cess has been framed to cover the above work to accord necessary A.A and E.S from the competent authority.

As discussed in chamber of principal Sri Aurobindo collage Malviya Nagar New Delhi to implement rain water harvesting system in the collage campus.

Accordingly estimate has been prepared for obtaining A.A & E.S from the competent authority.

- Design & scope: The following provision has been made
- 1 Laying of N.P.P. pipe
 - 2 Making necessary pit for harvest trap
 - 3 Boring of pipe etc.

Specification: PWD Specification No. 100/2017 to be followed for the above work.

Estimate No. 100/2017
Rs. 5,87,650/-
Contract after call of tenders
12 Months.
Material & Labour to be provided by contractor.

10/8/17

Handwritten signature and initials: HE (2)

Official stamp and signature area

SCHEMATA & COST ESTIMATION

work Implementation of rain water harvesting system at the ... Nagar (SH - G/O Recharge pit) and providing and laying RCC pipe line

Item	Qty	Unit	Rate	Amount
Earth work in excavation by mechanical means (Hydraulic excavator) to nominal depth over areas exceeding 50cm in depth of pits with as well as 10 runs on plain in order to be excavated with lead upto ... All kinds of soil		cum	120	
Providing and laying of position cement concrete of specified grade extending the cost of centring and shuttering. All work upto plinth level.				
1 10 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	1.50	cum	2237.75	3357.00
1 Brick work with F.P.S bricks of class designation 75 in foundation and plinth in Cement mortar 1:4 (1 cement : 4 coarse sand)	22	cum	2569.00	2569.00
1000 Pkg. 5. Hartz course sand of size 1.5 mm to 75 mm into bore pit upto reqd. depth complete as per direction of Engineer in charge		cum	280.00	280.00
1000 Pkg. 5. 120g each gravel of different size into bore / core pit as per direction of Engineer in charge		cum	240.00	240.00
5 mm to 15 mm of gravel		cum	450.00	450.00
5 mm to 15 mm of boulder		cum	250.00	250.00
Drilling for tube well by D 110. Motorised of all type of formation (strata) up to a depth of 100 metre below the ground surface as per direction of Engineer-in-charge including cost of labour, P.O. Machinery its transportation to site, erection at the site of work and dismantling removal of same from the site as well as cost of the tube well 250 mm dia bore hole		metre	15000.00	15000.00

Providing, lowering, fixing and laying in position pipe diameter of 100 mm dia. galvanized iron pipe. This pipe shall be M.S. pipes. Pipes of 100 mm diameter shall be galvanized iron pipe with 100 mm diameter. (500 kg weight) (100 mm dia. to be provided)

Providing and laying in position for 100 mm dia. diameter pipe diameter of 100 mm dia. length of 1 m each

Providing and laying in position for 100 mm dia. diameter pipe diameter of 100 mm dia. length of 1 m each without connecting pipe and also cutting, bending, fixing in position and applying a priming coat of approved steel primer all complete

kg 4.15 17914.00

22.23 Providing sand stone slab for roofing and laying them in cement mortar 1 : 4 (1 cement : 4 coarse sand) over wooden karries or R.C.C. battens (Karries and battens to be paid separately) including pointing the ceiling joints with cement mortar 1 : 3 (1 cement : 3 fine sand) complete

22.23.1 Red sand stone slab 40 to 50 mm thick

sqm 285.30 5949.00

22.24 Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering. All work upto plinth level

22.24.1 1 : 2 : 4 (1 cement : 2 coarse sand : 4 graded stone aggregate 75 mm nominal size)

cu m 20.15 8515.00

22.25 Excavating trenches of required width for pipes, gutters, etc. including excavator for sockets and crossing of sides, ramming of returns, depth upto 1.5 m including getting out the excavated soil and then returning the soil as required in layers not exceeding 75 mm in depth including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed within a radius of 50 m

22.25.1 Pipes, gutters etc. exceeding 100 mm dia. but not exceeding 300 mm dia.

metr 12.10 13231.00

22.26 Providing and laying non pressure RCC class (light duty) RCC pipes with spigots and laid with stiff mixture of cement mortar in the proportion of 1 : 2 (1 part of 2 fine sand) including testing of pipes etc. complete

Detail of measurements

Name of work: Implementation of rain water harvesting scheme at Sh. Anubinda College Maligaon, Jorhat (Assam) (10 recharge trench with tubewell and pit with bore well).

Item 1. Earth work in excavation by ... over ...
2.6.1

$$10 \times 10.50 \times 2.70 \times 2.70 = 56.70 \text{ m}^3 \quad \text{Qty } 60 \text{ m}^3$$

Item 2. P/L in position c.c. 1:5:10.
4.1.10

$$2 \times (10.50 + 2.70) \times 0.30 \times 0.15 = 1.128 \text{ m}^3 \quad \text{Qty } 1.50 \text{ m}^3$$

Item 3. Bricks cum ... 1:4.
6.1.1

$$2 \times (10.50 + 2.70) \times 0.23 \times 2.70 = 19.52 \text{ m}^2 \quad \text{Qty } 16.0 \text{ m}^2$$

Item 4. P/L & 20mm per gravel ... 5 to 10mm.
Dry stone pitching

$$1 \times 10.00 \times 1.50 \times 0.60 = 9.00 \text{ m}^3$$

5 to 10mm
3 to 4mm
5 to 15mm

Qty: 9.00 m³, 5.00 m³, 5.00 m³

Item 5. P/Filling coarse sand ...

$$1 \times 10.00 \times 1.50 \times 0.50 = 7.50 \text{ m}^3 \quad \text{Qty } 8.00 \text{ m}^3$$

Item 6. Drilling of Tube well ... 2 x 50.0

100 m²
100 m²

Item 7. Providing 100mm dia plotted hole 2 x 50.0

2 nos

Item 8. Providing Soil Pkg 1 a 2

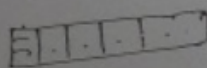
Item 9. Structure of concrete in pipe section

10.1.

1 nos. $\frac{20 \times 150}{150 \times 2.70} \times 4 \times 2.70 = 8.40 \text{ m}^2 \text{ @ } 14.90 \text{ kg/m}^2 = 119.20 \text{ kg}$

T- 80 x 50 x 8mm $3 \times 10.50 = 31.50 \text{ m}^2 \text{ @ } 9.60 \text{ kg/m}^2 = 302.40 \text{ kg}$

Qty: 421.60 kg



Item 10. Providing sand stone roof:

12.23.1.1: $1 \times 10.50 \times 2.70 = 21.00 \text{ m}^2 \quad \text{Qty } 21.00 \text{ m}^2$

Step
1.13.

P/L C.C 1:2:4

$$10.50 \times 2.00 \times 0.075 = 1.575 \text{ m}^3$$

Qty 2 m³

Step
2.10.1.2

Excavating trenches-

$$2 \times 40.00 = 80.00 \text{ m}^2$$

$$1 \times 35.00 = 35.00 \text{ m}^2$$

$$\underline{115.00 \text{ m}^2}$$

115.00 m²

Step
1.41.3

P/L NP2 M/m

115.00 m²

Step
1.27.1.

Construction normally Red jelly Chamber

$$1 \times 15 \text{ Nos}$$

15 Nos.

Step 2.

15mm Cement plaster - - -

$$\text{Inside Pit } 2 \times (10.50 + 2.00) \times 2.70 =$$

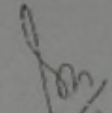
$$67.50 \text{ m}^2 \text{ (Qty 70)}$$

Step

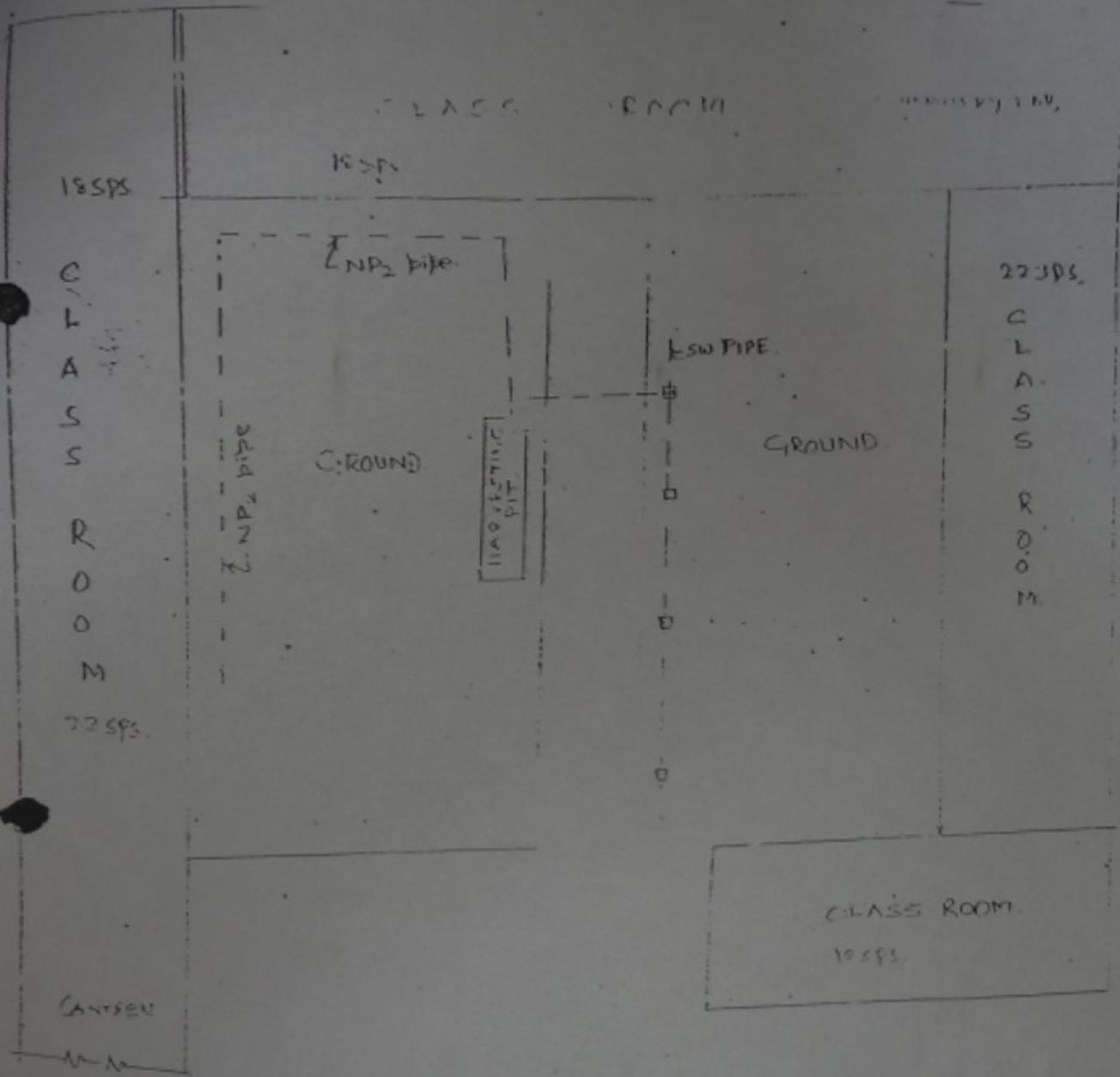
P/Lowing 10 cm dia.

$$2 \times 2.50 \times 0 = 0.50 \text{ m}^2$$

100 m²


उपनिर्देशक (एन-122)
लोक निर्माण विभाग, नंबर एन-122
पी. टी. एस. कॉलोनी नगर, नई दिल्ली

RAIN WATER HARVESTING AT SRI ANURAGINDU COLLEGE
MALVIYA NAGAR NEW DELHI.



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 Date: _____
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