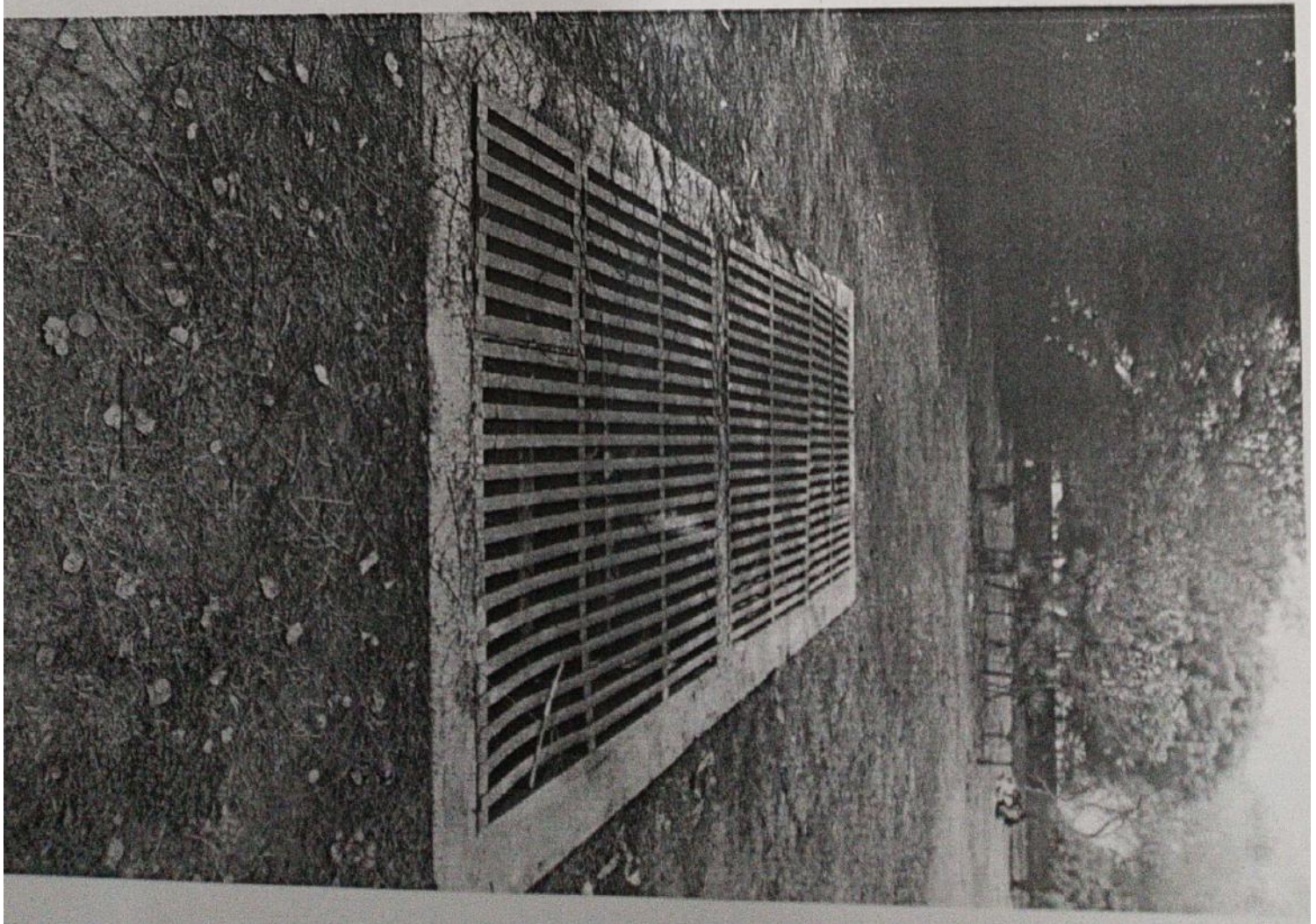
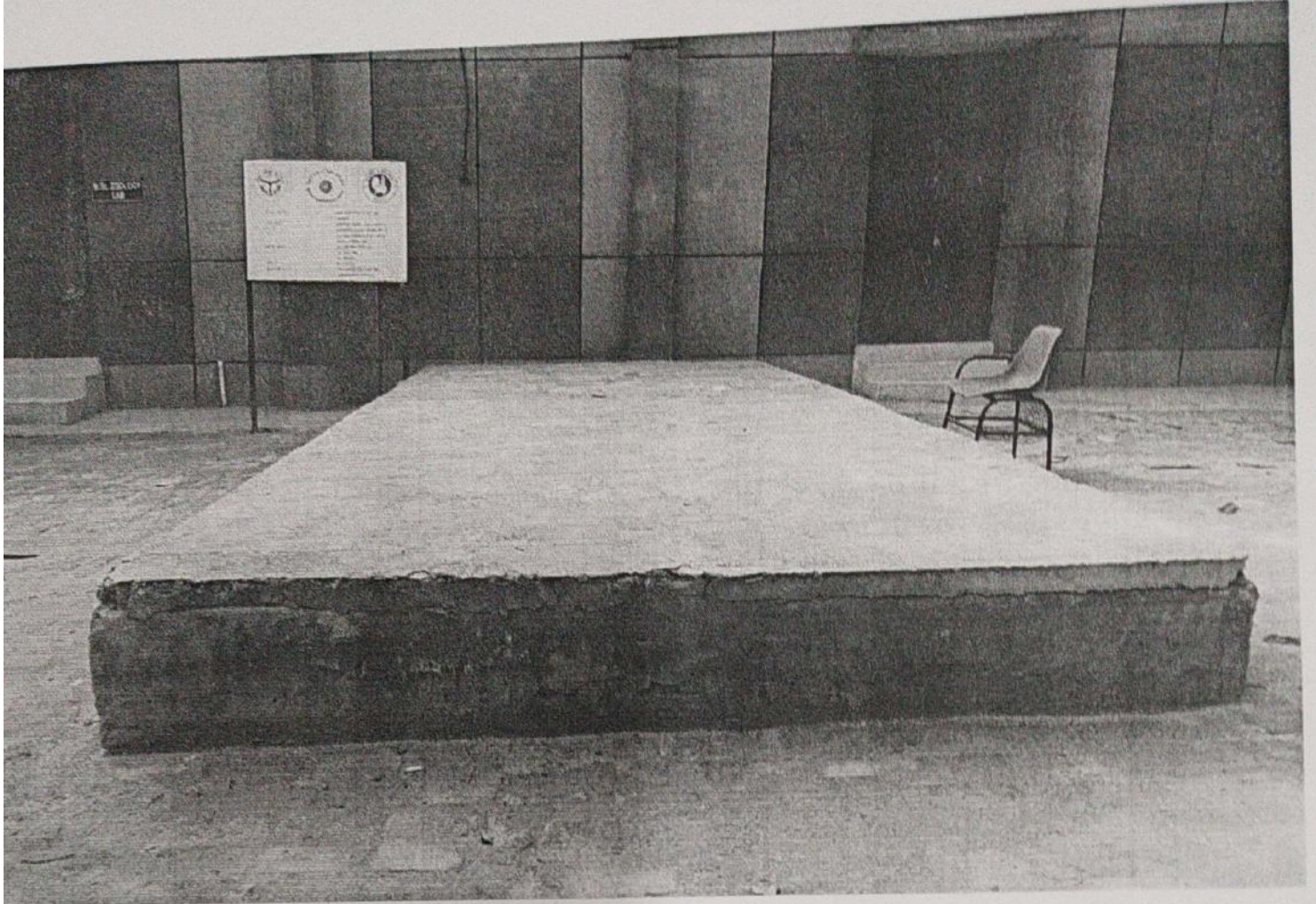


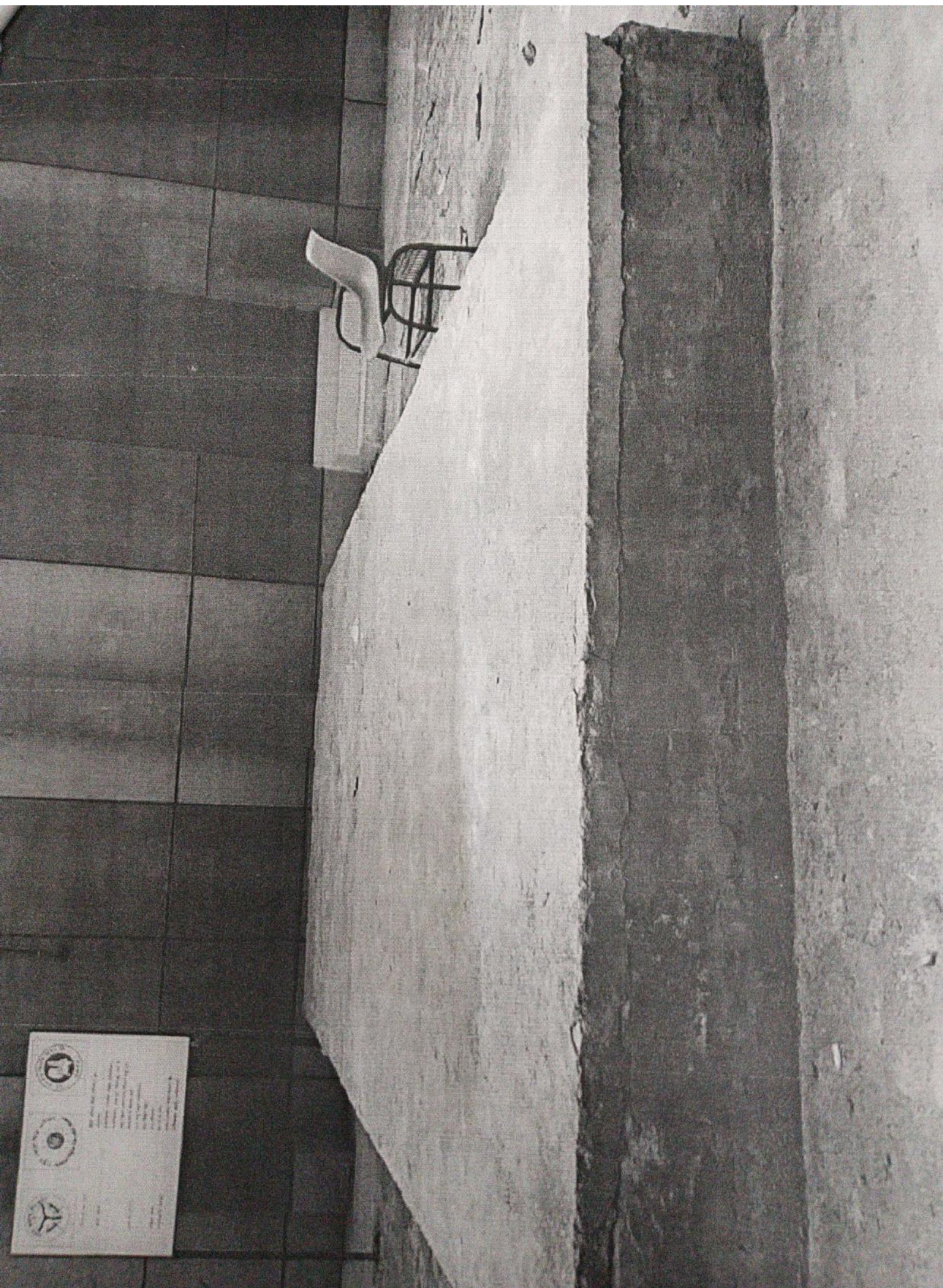
7.1.6 Rainwater Harvesting structures and utilization in the college

Rainwater harvesting is a technique of collection and storage of rainwater into natural reservoirs or tanks, or the infiltration of surface water into subsurface aquifers. It is a technique or strategy for the collection of rainwater and storing it in the right way for future use. The water can be collected from various surface and platforms and stored for later use. The use of rain water harvesting system provides ideal merits to any community. First and foremost, the collection offers a better and efficient utilisation of energy resource. It is important because potable water is usually not renewable, thus reducing wastage. Rain water harvesting provide and independent water supply during water restrictions. Rain water is also independent of salinity or pollutants found in ground water, increasing the quantity of portable drinking water available when rain water harvesting is utilized. Rain water harvesting is a technology use to collect, convey and store rain water for later use from relatively clean surface such as a roof, land surface. Rain water harvesting provides sources of soft, high quality water reduces dependent on well or and other sources and in many contexts are cost effective. Rain water harvesting system is economically cheaper in construction compared to other sources.

As the water crisis continues to become severe, there is an immense need to reform in water management system and revival of tradition system. Natural resources are most precious to us and we conserve them by rain water harvesting, recycling the water for gardening. Rain water harvesting structures and utilisation in the college. The college has rain water harvesting facility with rain water storage tank around the building. This system renews the borewell. The huge volume of rainwater from the roof is collected. Rain water harvesting is also done by diverting storm water drains and run off from roof tops to borewell to recharge them. In college three plants of water harvesting plant are in operation. A huge amount of water is lost every year due to unattended faucet leaks, therefore, our maintenance committee always stands on their toes to fix the leak.

Rainwater harvesting is process of collecting, converging and storing water from rainfall in an area. Rain water is collected from roof top of the building is diverted through down take pipes to borewell. after flushing of rainfall, water pass through filters to remove mud. Clean water then passes to borewell to recharge the ground water. College have three unit of rainwater harvesting is in working. One constructed by Uttar Pradesh Jal Nigam in the year of 2005-06. Two recharging units were constructed by Uttar Pradesh Rajkiya Nirman Nigam Limited. Size of recharge unit 20x9 Fit square each (approx). Time to Time College invite civil engineers for inspection rainwater harvesting and repairing. Excutive Engineer Uttar Pradesh Jal Nigam give us estimate cast for repair of unit 1,2,3 1.313 Lacs dated 17.01.2019.





OFFICE OF THE EXECUTIVE ENGINEER, C.D. UTTAR PRADESH JAL NIGAM, GAUTAM BUDDH NAGAR
ESTIMATE FOR REPAIR OF RECHARGING UNITS IN GOVT. DEGREE COLLEGE, BADALPUR
DISTRICT: GAUTAM BUDDH NAGAR

PROJECT REPORT

This D.P.R. for repairing of recharging units has been prepared on the request of Principal, Government Degree College, Badalpur, District: Gautam Buddh Nagar. Repair works to be carried out has been inspected by Sri V K Chauhan Assistant Engineer and Sri Rajeev Nandan Junior Engineer of this office in presence of Dr. Meenakshi Lohani, Govt. Degree college, Badalpur, Gautam Buddh Nagar.


RECHARGING UNIT NO.-01:

This recharging unit was constructed by Uttar Pradesh Jal Nigam in the year of 2005-06. Filter media of this unit is to be replaced by new filter media. Unit is covered by M.S. grating which is to be replaced by R.C.C. slab fixed with M. H. cover of medium quality.

RECHARGING UNIT NO.-02 & 03:

These two recharging units were constructed by Uttar Pradesh Rajkiya Nirman Nigam Limited. Both units are covered by R.C.C. slab so could not be inspected. As per Dr. Lohani, Filter media of these units is working properly although its cleaning is needed. Top layer of coarse sand of both the units is to be replaced by new layer of coarse sand. Units are fully covered by R.C.C. slab and there is no space for inspection and cleaning. So, Some portion of the slab is to be replaced by new R.C.C. slab in which M. H. Cover of medium quality 60x60 cms. is to be fixed for proper inspection and cleaning of units.

This estimate is prepared as per the rates of labour and materials approved by committee headed by the Superintending Engineer, Eighteenth Circle, U.P. Jal Nigam, Ghaziabad vide office order No. 2025/vividh-13 /186 dated 18.10.2017. The detailed project report of repairing work of recharging units amounting to **Rs. 1.43 Lacs** is submitted for favour of financial approval and allocation of funds.


(R.P. SINGH)
EXECUTIVE ENGINEER

UTTAR PRADESH JAL NIGAM



ESTIMATE FOR REPAIR OF RECHARGING UNITS IN GOVT. DEGREE COLLEGE, BADALPUR

DISTRICT : GAUTAM BUDH NAGAR

ESTIMATE NO. :

ESTIMATE COST : 1.43 Lac

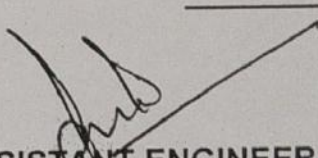
YEAR : 2018-19

**EXECUTIVE ENGINEER,
CONSTRUCTION DIVISION
U.P. JAL NIGAM, NOIDA**

ESTIMATE FOR REPAIR OF RECHARGING UNITS IN GOVT. DEGREE COLLEGE, BADALPUR
DISTRICT: GAUTAM BUDDH NAGAR

GENERAL ABSTRACT OF COST

S.N.	PARTICULARS	QUANTITY	AMOUNT IN RS.
1	2	3	4
1	Repair of Recharging Unit No.-01	1	82800.00
2	Repair of Recharging Unit No.-02 & 03	2	48500.00
TOTAL			131300.00
OR IN LACS			1.313


ASSISTANT ENGINEER

7.1.6

Rain water Harvesting

