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(दिल्ली क्रिफ्लिल्ला) (क्राल्ट्स, लंग कर्तुपत)

दूरभाष/FEL 011-25099-380 23599581, फरस/FAX-011-25079380 Website: https://dducollegedu.ac.in

DDUC/RWH/2019/ 76 3/

Dated: 17.01.2019 61312019

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The Deputy Dean (Works) University of Delhi, Delhi-110007

Subject : Implementation of Rain Water Harvesting in colleges of University of Delhi

Sir.

This has reference to your letter No. WE/DU/2018-19/4055 dated 22.02.2019 received through e-mail on the subject noted above.

In this connection, it is to inform you that 4 Nos. of Rain Water Harvesting System has already been installed in the college, which are functioning properly as per letter No. 54(60)/EPD-II/PWD/2017-18/644 dated 06.12.2017 received from Executive Engineer (EPD-II), PWD, GNCT of Delhi, Delhi. A copy of the same is appended herewith for your ready reference.

Further, the College has received Administrative Approval and Expenditure Sanction from Dte. of Higher Education, GNCT of Delhi vide letter No. DHE-10(14)/Minor Work/Major Work/100% Colleges/2017-18/PF-1dated 24.09.2018 for construction of two more Rain Water Harvesting Pit in the premises (copy enclosed).

Yours faithfully,

(Dr. Hem Chand Jain)

Acting Principal

Encl.: As above

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Officiating Principal Deen Daya! Upadhyaya College (University of Delhi) Sector-3, Dwarka, New Delhi-78

DIRECTORATE OF HIGHLE DOUGLING GOVT. OF NCT OF DELHI B-WING, 2ND FLOOR. 5 SHAM NATH MARG, DELHI-54. Email:-dtehedu@gmail.com

No. DHE-10(14)/Minor Work/Major Work/100%Colleges/2017-13/PF-I

Dated:

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То,

| 1. Executive | Engineer, | EPD-2, | PŵD, | VŹ. | Principal, |
|------------------------------------|-----------|--------|------|----------------------|---------------------------|
| Sector-3 Dwarka, New Delhi-110078. | | | | Deen Dayal Upadhyaya | |
| | | | 1 | | College, Sector-3 Dwarka, |
| | | | | | New Delhi-110078. |

Sub: Rain water harvesting structures (RWH) as per DJB/NGT orders at Deen Dayal Upadhyaya College, Sector-3 Dwarka, New Delhi-110078.

Sir,

Reference letter No. DDUC/PO/Misc./2018/1445 dated 11.04.2018 issued by Principal, Deen Dayal Upadhyaya College, Sector-3 Dwarka, New Delhi-110078, vide which an estimate prepared by Executive Engineer, EPD-2, PWD, Sector-3 Dwarka, New Delhi, in respect of work mentioned in the subject cited above, has been recommended and forwarded. In this regard, I am directed to convey the A/A & E/S of the Director, Directorate of Higher Education for incurring an expenditure Rs.10,41,300/- (Rs. Ten Lakh Fourty One Thousand Three Hundred Only) for Rain water harvesting structures (RWH) as per DJB/NGT orders at Deen Dayal Upadhyaya College, Sector-3, Dwarka, New Delhi.

The grant is sanctioned subject to the following conditions:-

- 1. The expenditure involved, out of the budget allocation under Head of Accounts MH 2202 03 001 00 00 27 Minor works under Major head "General Education" and Minor head Direction & Administration under Demand No.6 of Delhi area for the year 2018-19. The expenditure sanction is to be utilised through the Controller of Account, Govt. of NCT of Delhi, Vikas Bhavan A-Block with the request to issue LOC of sanctioned amount to PWD for the above said work.
- 2. Subject to the availability of funds and compliance of all the codal formalities as per G.F.R & CPWD manual shall be observed and a report will be sent to this Directorate.
- 3. The compliance of codal formalities is the responsibility of Engineer-in-Chief (PWD).
- 4. No escalation in cost & no deviation in the work shall be allowed.
- 5. The work shall be awarded on immediate basis and completed within time frame as mentioned in the estimate and status report/completion report may be submitted to this office immediately after completion of the work.
- 6. That it is ensured that there is no duplicity of work.
- 7. The Copy of the work Award shall be given to the Directorate.
- 8. Opy of account of the work with Utilization certificate shall be furnished to the Directorate after completion of work.

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Officiating Principal Deen Dayal Upadhyaya College (University of Delhi) Sector-3, Dwarka, New Delhi-78

The approval is being given as per the instruction issued vide order 9. no.No.PA/DSF/Misc./2010-11/DSIV/2505-2515 dated 2/6/2011 & No.F-8/2/2007-AC/DS-IV/4401-4550 21/09/2011 issued by Finance Deptt., GNCTD.

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That the execution agencies will strictly follow the guidelines for execution of 10 projects/works issued by Finance Deptt., Govt. of NCT of Delhi.

Rs.10,41,300/- (Rs. Ten Lakh Fourty One Thousand Three Hundred Only) for Rain water harvesting structures (RWH) as per DJB/NGT orders at Deen Dayal Upadhyaya College, Sector-3 Dwarka, New Delhi, is also placed at the disposal of the Executive Engineer, EPD-2, PWD, Sector-3 Dwarka, New Delhi-110078, out of the budget allocation under Head of Accounts MH 2202 03 001 00 00 27 University and Higher Education Minor works under Demand No.6 of Delhi area for the year 2018-19.

No. DHE-10(14)/Minor Work/Major Work/100%Colleges/2017-18/PF-I Copy forwarded to the following for information and necessary action:-Dated:

- 1. The Engineer in chief, Govt. of NCT of Delhi, P.W.D. 12th floor, MSO Building, I.P. Estate, New Delhi. New Delhi.
- 2. The Director (Works), PWD, MSO Building, I.P Estate, New Delhi.
- 3. The Director (Plg.), Delhi Secretariat, 6th Level, B-Wing, I.P Estate, New Delhi-02.
- 4. Dy. Secretary, PWD, Delhi Secretariat, 5th Level, B-Wing, I.P Estate, New Delhi-02.
- 5. Sr. Accounts Officer, Accountant General (Audit), Delhi, AGCR Building, I.P. Estate,
- 6. Directorate of Audit, 4th Level, Govt. of NCT of Delhi, Delhi secretariat, New Delhi.
- 7. The Controller of Account, Govt. of NCT of Delhi, Principal Accounts Office, A-Block, Vikash Bhawan, I.P Estate, New Delhi-02 with the request to issue LOC of sanctioned amount to PWD for the above said work.
- 8. Dy. Secretary (Finance) (B), Govt. of NCT of Delhi, IVth Level, Delhi Sectt., I.P. Estate,
- 9. Dy. Controller of Accounts, A-Block, Vikas Bhawan, I.P. Estate, New Delhi 10.Sr. Accounts Officer, Dte. of Internal Audit, 4th Level, Delhi Sectt., I.P. Estate, New Delhi.
- 1 1. PAO-IX, Old Secretariat, Delhi.
- 12. PAO-22, 10th Floor, MSO Building, ITO, New Delhi.
- 13. The DDO, Dte. of Higher Education, GNCT of Delhi.
- (University of Delhi) 14 Assistant Director (Planning) / Asstt. Programmer, Dte. of Hr. Edn, B-wing, 200 Planning Verhier 78 Sham Nath Marg, Delhi 54.
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(SUNIL KUMAR.) dmn. Officer-II (Hr. Ed.1.)

Officiating Principal

Deen Dayal Upadhyaya College

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Yours faithfully,

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Admn. Officer-II (Hr. Edn.)

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The Principal Deen Dayal Upadhyaya College Sector-3, Dwarka, New Delhi-110078

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Rain water harvesting structures Deen Dayal Upadhyaya College Dwarka as per DJB/NGT orders. Sub :

Assistant Engineer (RWH), Room No. 11, Delhi Jal Board, Varunalyaya Bhawan, Jhandewala, New Delhi visited the DDU College Campus regarding the existing Rain water harvesting structures in Dec. 2017 and collected the details of existing RWH structures in the campus as per the orders of NGT/DJB.

Based on the minimum requirement of RWH structures as per the latest NGT/DJB orders, 02 Nos. RWH structures more to be constructed inspite of existing 04 Nos. RWH-

Design for the technical assistant only for the 02 Nos. RWH structures without bore of size 4m x 2.5m x 2.5m has been submitted by the EE/RWH(Ground water cell) vide letter No.

As per the latest DJB 50% penalty are being imposed of the water bills in water bills.

In the "Jan Samwad" held on 13/01/2018 in Auditorium DDU College by the Delhi Jal Board in which Chief Minister, Govt. of Delhi has given permission to construct adequate RWH in the campus / society upto June 2018 and clean them twice in year and at least to get them inspected by the DJB to avoid any fine on water charges bill of DJB on account of in adequate RWH.

Principal DDU College alongwith staff and AE-1 & AE-2 / EPD-2/PWD were present in the "Jan Samwad". The Principal immediately directed to construct the RWH immediately to avoid any

Accordingly, the detailed estimate amounting to Rs. 10,41,300/- has been prepared incorporating 02 Nos. RWH structures size dia 1.82m x 2.5m as per space available to construct the same in the campus equivalent to size 4m x 2.5m x 2.5m as approved by the DJB. Chief Engineer(Higher Education Projects)/PWD has been requested to give in principles approval from the savings if available in the sanctioned A/A & E/S of the main college building in the last week of January 2018. But in principle approval has not been given from the sanctioned A/A & E/S for A amounting to Rs. 150.98 Crore has been accorded vide letter No. DHE 14(2)/ Const/2009-10/3239

Therefore, preliminary-cum-detailed estimate is hereby submitted to obtain Administrative Approval and Expenditure Sanction from the competent authority. the

Officiating Pri Deen Dayal (Coon Internal Could when Villa CEL (IQAC) (30 कर्मती) Dean D. - U. ter College कार्यपालक अभियंता University of Dehi रिक्षा परियोजना मंडल-2, लोनिवि प्रतिलिपि :--1) सहायक अभियंता–2, लोनिवि, डीडीयू कॉलेज, सेक्टर की, द्वारका, नई दिल्ली। send immediately to Ditti. Ed. for (इं० /कर्मवीर) कार्यपालक अभियंता



तिल्ली संस्कान/Government of NCT Delhi कार्यपालक अभियन्ता/ Executive Engineer लोक निर्माण विभाग/ Public Works Department शिक्षा परियोजना मंडल--॥, लो.नि.वि./Education Project Division-॥, सेक्टर--3. द्वारका, नई दिल्ली--110078/Sector-3, Dwarka, New Delhi-110078 PH. 011-28089244, 28089245(Fax) email:- <u>eepwddelhiedu2@gmail.com</u>

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The Principal Deen Dayal Upadhyaya College Sector-3, Dwarka, New Delhi-110078

Sub.: Rain Water Harvesting Structure in Deen Dayal Upadhyaya College at Sector-3, Dwarka, New Delhi.

Ref.: Your letter No. DDUC/2017-18/936 dt. 12/10/2017

Respected Sir,

Sector-3, Dwarka, New Delhi-78

With reference to above cited letter, it is certified that 04 Nos. Rain Water Harvesting structures constructed in the campus of Deen Dayal Upadhyaya College, Sector-3, Dwarka, New Delhi are functional / operational since May 2016, which have been cleaned periodically and found properly functioning in the rainy season as per details given below :-

| S.No. | Month of Cleaning | Remarks |
|-------|-------------------------|---|
| 1 | Constructed in May 2016 | Found proper functional during the rainy season |
| 2 | Nov. 2016 | Found proper functional during the rainy season |
| 3 | May 2017 | Found proper functional during the rainy season |
| 4 | Nov. 2017 | Found proper functional during the rainy season |

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सं0: 54(74) / शिक्षा परि.मं.−11 / लो.नि.वि / 2017-18 / ड ०५ То

दिनांकः 04/10/17-

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The Principal, Deen Dayal Upadhyaya College, Sector-3, Dwarka, New Delhi-110078

Sub:- Rain Water harvesting in Deen Dayal Updhyaya College, Sector-3, Dwarka, New Delhi.

Respected Sir,

As per the discussion held on 04-10-2017 in your Chamber regarding the Rain Water Harvesting structure. It is intimated that 3 nos Rain Water Harvesting structures were approved by the Executive Engineer, RWH, Room No.-11, Varunalaya Phase-1, Karol Bagh, New Delhi-110005 vide letter No. DJB/EE/RWH/2015/867 dt. 25-06-2015 (copy enclosed for ready reference) which were constructed at site and are functional since 13-05-2016. It is for your information that two seasons of Mansoon are over and it is found that Rain Water Harvesting structure/are running/functioning properly.

Encls.:- As Above

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प्रतिलिपिः—

1.) सहायक अभियन्ता 1 एव 2. शिक्षा परियोजना मंडल-2. लो.नि.वि. दीन दयाल उपाष्ट्रपाय. कॉलेज, सेक्टर-3 द्वारका, नई दिल्ली को सूचनार्थ एवं आवश्यक कार्यवाही हेतु।

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OFFICE OF THE EXECUTIVE ENGINEER (RWH) ROOM NO. 11, VARUNALAYA PHASE-I KAROL BAGII, NEW DELHI – 110005 <u># 23558264</u>

No./DJB/EE (RWH)/2015/ 867-

DATED: 2576/15-

To,

The Executive Engineer, BPD B-132, PWD, Dwarka, New Delhi, Sector-3

Subject: Design of rain water harvesting structure at C/o Deen Dayal Upadhaya College at Sec.3, Dwarka, New Delhi.

Please refer to your application on the above subject. A drawing of rain water harvesting structure for the premises including conditions and layout drawing showing location of RWH structure are enclosed. It is to mention that design and location of rain water harvesting structures are based on the inputs provided by yourself/your representative.

The enclosed design is in form of technical assistance only. Any permission required for construction of recharge well/s may be obtained from concerned authorities.

The recharge bores shall not be used for withdrawal of ground water at any point of time. This is also subject to the condition that in case of any restrictions on construction activities in the said premises by any other government authorities and court orders, then this design/approval deemed to stand cancelled.

EE (RWH) Internal Otrafi e Cell (IQAC) Debn DL iya Gullega University of Delhi Officiating Principal Deen Dayai Upadhyaya College (University of Delhi) Sector-3, Dwarka, New Delhi-78

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ind the Provide Sand His required to be taken to a sub-state (DD)Revenue).

- 2 Position of slotted pipes of recharge bore shall depend on depth and thickness of aquifer zones in the area.
- 3. After construction of recharge bore, it must be tested for its effective recharge.
- 4. Necessary sluice valves/ shutters may be provided to avoid any contamination of ground water.
- 5. Deapth of Recharge well will change and should be kept 2 to 3 m above post mansoon water level.

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Officiating Principal Deen Dayal Upadhyaya College (University of Delhi) Sector-3, Dwarka, New Delhi-78

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Uthers. Sec. 5, Description

| 1 | Total area of fire Plot | 30910 sqm. | |
|----|---|---|--|
| 2. | Total area considered for RWH Systems | 30910 sqm. | |
| 3. | Average Yearly Rain Water Run-off available for recharge | 650 mm | |
| 3. | Maximum average hourly rainfall intensity considered for designing rain water harvesting structures | 25 mm | |
| 4. | Proposed Recharge Structures (drawing enclosed) | Seven recharge pit with seven recharge bore well. | |
| 5. | Location of the Recharge structures | As shown in layout plan submitted by applicant | |

Conditions for Construction of Rain Water Harvesting Structures

1. The diameter of the recharge bores shall not exceed 100mm.

- 2. The depth of the recharge wells should be as per the suggested designs enclosed herewith.
- 3. The construction of recharge well shall be done through a drilling contractor registered with the CGWA.
- 4. This office should be intimated immediately after completion of the recharge system for inspection by officials of RWH cell of DJB.
- 5. Prior Permission for installation of recharge bores is required to be taken from concerned DC (Revenue).
- 6. The recharge bores shall not be used for withdrawal of ground water at any point of time and a certificate to this effect is to be submitted to this office immediately after completion of the recharge system. In case of violation, recharge well may be sealed and penal action under provision of section 15 of the Environment (Protection) Act, 1986 may be taken by the CGWA.

7. Structural design for chamber walls & top slab is to be got done from a qualified structural engineer. No claims shall be tenable on account of this.

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> Concisting Principal Deen Dayal Upachyaya College (University of Dolhi) Sector-3, Dwarke Norde

en dian birs is qui en servir i cavala of lengths and breadths given in design are the inner dimensions of recharge trenches/ chambers. Foot rests in de-silting and filtration chambers are to be provided to facilitate entry of maintenance person in these chambers. In case of any doubt, the office of EE (RWH) Cell, DJB may be contacted.

9. Waste water/contaminated water shall not be allowed to enter into the storm water drains (rain water conveyance system) and recharge structures to avoid contamination of ground water. Proper care & precaution shall be taken for maintaining the rain water harvesting system on regular basis.

- a. Check and clean catchments on weekly basis.
- b. Check and clean rain water conveyance system on monthly

c. Check and clean de-silting and filtration chambers prior to and after monsoon every year. Take out filter media, wash it and reuse with additional quantities for the deficient portions. These are to be checked on fortnightly basis during monsoon

- d. Check and clean recharge bores before and after monsoon every year. Recharge bores need to be re-developed, if there is decline in rate of infiltration of water in the recharge bores.
- 10. it is advised to provided a mesh on the mouth of the inlet (in the last chamber of the rain water conveyance system prior to recharge structures) to prevent entry of debris and floating material into the recharge trenches. Sluice valves/ Shutters may be provided to ensure that no water other than rain water i diverted to the recharge structures and to divert first rain water run-off into municipal drain. Rain water recharge structures are to be in operation during the monsoon season only so as to avoid any contamination.
- 11. The work may be undertaken by the specialized agencies so that the objective of rain water harvesting is implemented in true spirits and

12. It is to be noted that success and effectiveness of rain water harvesting system depend on proper execution and its proper

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Officiating Principal Deen Dayal Upadhyaya College (University of Delhi) Sector-3, Dwarka, New Delhi-78

- Following measures as structured by Hon'ble Supreme Court must also be ensured to prevent any accident;
- i. Erection of signboard & caution board at the time of construction and on the above installations.
- Ii. Erection of barbed wire fencing or suitable barriers around the above sites.
- iii. Construction of CC Platform around the wall casings, In case boring of tube wells.
- iv. Capping of well assembly by welding steel plate/ strong cap to the casing pipe with bolts and nuts.
- v. The tube well should not be left uncovered in case of pump repair.
- vi. Filling of mud pits and channels after completion of works.
- vii. Filling up abandoned bore wells clay/sand/boulders/pebbles/drill cuttings etc. form bottom to ground level.
- viii. On completion of the drilling operations at a particular location, the ground condition should be re stored as before the start of drilling.
- ix. In case a bore well/ tube well is abandoned at any stage, a certificates must be issued by the concerned Executive Engineer that the abandoned bore well/ tube well has been properly filled up to the ground level.
- x. The display Board (in Hindi) with Dos & Don'ts must be erected on each crucial installation.

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