

National Mission on Himalayan Studies
PERFORMA FOR THE HALF YEARLY PROGRESS REPORT
(Period from 1/5/2016 to 25/11/2016)

Project Title -: Drinking Water Security for Rural Areas in Uttarakhand Himalayas by Riverbank Filtration, Robust Disinfection Systems and Community Participation

Sanction No. and date -: NMHS/SG-2016/004 Date: 31-03-2016

Institution Name-: Cooperation Centre for Riverbank Filtration (CCRBF)

Personal Details -:

Name and Address of the PI-: Mr. P.S. Patwal, Project Scientist cum Manager, Cooperation Centre for Riverbank Filtration(CCRBF), Jal Bhawan, B- Block, Nehru Colony, Dehardun 248001

Name and Address of the Co PI-: Er. R.K. Rohela, Executive Engineer, Uttarakhand Jal Sansthan, B- Block Jal Bhawan Nehru Colony, Dehardun 248001

Partner Details-:

Name	Address	Work assigned to partners	Fund allocated to partners during the period
CCRBF		Project management, collection & analyses of field data, reporting, dissemination ,installation & monitoring of disinfection systems, organising IEC campaigns	4,24,0200.00
Uttarakhand Jal Sansthan		Technical & logistical support, construction of Koop wells	7,50,000.00
IIT Roorkee		Support for water quality analyses and post-treatment (inline-electrolysis)	Not yet
HTW Dresden		Support to geo-hydraulic and water quality data acquisition & analyses, conducting training courses, reporting & dissemination	NIL

Project Objectives -:

1. Construction of Koop wells in 5 rural villages of Uttarakhand (total population 3,600) creating water supply infrastructure for these 5 villages (laying of pipelines, construction of stand posts), including provision of appropriate post-treatment.

2. Demonstrate the coupling of natural RBF Technology with engineered post-treatment using inline-electrolysis for rural conditions at one project site, preparation of manual and information material in Hindi & English.
3. Conducting workshops to build, operate and maintain such schemes.
4. Conducting information, education and communication (IEC) campaigns to sensitise rural communities or correct sanitation practices.
5. Career development of native persons from Uttarakhand hills.
6. Creation of jobs within the construction of the above water supply infrastructure.

Completion in the last six months in % (According to each Deliverables)-:

SI No	Quantifiable Deliverables (as per sanction letter)	Output/ achievements	Performance in terms of Monitoring indicators	Remarks
1	Demonstrative coupling of the natural RBF Technology in 5 villages with 1 engineered post-treatment for rural conditions.	30%	One Inline Electrolysis unit is installed	Certain technical issues are being addressed
2	Providing permanent infrastructure for drinking water supply by Koop wells to 5 rural communities (total population 3,600) in hills	10 %	Tender document is prepared and invited after site selection for Koop wells construction.	
3	Conducting training courses and workshops to build, operate and maintain such schemes	5%	One workshop conducted in September 2016 for UJS engineers responsible for site where inline-electrolysis unit installed; training material preparation is under progress	Workshop / training funded by third party.
4	Data base on RBF technology and water quality	10 %	Quotations are invited for Multi Parameter water Quality test kit	Water quality analysis will commence once Koop wells are operational
5	Preparation of manual and information material in Hindi & English	20%	Posters have been prepared regarding to installation of Uttaranchal Koop and Inline Electrolysis	

Summary of progress -: (with in 200 words) Objective Wise

1) The project was initiated with the selection of five sites within the rural areas of Uttarakhand for the project implementation. The sites were visited and selected after they were found to be suitable for project implementation. Details of the selected sites are given in the Table 1 below.

Table 1: List of Selected Sites for the construction of Uttaranchal Koops under NMHS project:

S. No	Name of Village	Source of Water	Discharge of Source (LPM)		Population (Census 2011)	Road Approachability
			Peak Seasons	Lean Season		
1	Kadwapani, Distt Dehradun	Kadwapani stream	3000 Lpm	1000 Lpm	1100	Yes
2	Julo, Distt Dehradun	Swarna River	5000 Lpm	2000 Lpm	400	No
3	Syalde Bazar, Bhikiyasen, Distt Almora	Dobra Gadhera	2500 Lpm	1000 Lpm	1500	Yes
4	Amser Kot, Distt Bageshwar	Stream	900 Lpm	500 Lpm	300	No
5	Bindalya, Distt Pauri	Bindalya Gadera	5000 Lpm	1500 Lpm	350	No

2) Two project staff have been recruited for the project through a transparent selection process which included the publication of an advertisement announcing the job vacancy (01 JRF and 01 Field Assistant) in the local newspaper Applications were sent by post and the valid candidates were called for the interview at the CCRBF's office. After the interview, candidates were short listed and selected (published advertisement is attached as Fig. 1).

3) According to project objective demonstrating the coupling of natural RBF Technology with engineered post-treatment using inline-electrolysis for rural conditions (is also initiated with an Inline electrolysis system called SuMeWa/TURB being installed at one of the selected site which is JULO in DEHRADUN district and it would be soon connected to the Uttaranchal Koop well once it is installed. The site is located in Sahaspur Block of Dehradun district and has Swarna River as the source. The above equipment was provided for R&D purposes by the German project partner through the Indian project partner IIT Roorkee (Installation photos are attached as Fig. 2)

4) Tenders have also been invited for the supply and installation of five Uttaranchal Koop at all the above five sites by getting the Tender Notice published in the Local newspaper. Also for the water quality analysis at each site quotations have been invited from various Vendors for the supply of Multi Parameter Water Quality Testing Kit. (Published advertisement is attached as Fig. 3).

5) For communities involvement in project activates we specify one term and condition in tender document that "Tenderer/ Contractor/ Supplier must also involve local people for the installation work of Uttaranchal Koop as it would fulfil one of the main objectives of our project by generating employment. Their name, account number and contact number should be properly mentioned in work completion report"

6) Under the project objective which includes conducting workshop, operate and maintain such schemes and campaigns under information education and

communication (IEC), posters have been prepared regarding about how the installation of Uttaranchal Koop is done. Furthermore, a short workshop was conducted in September 2016 for the engineers responsible for the inline-electrolysis pilot-plant installed in Julu along with an on-site demonstration.

Supporting data files/ maps/ tables/ figures of the results to be attached

Fig. 1: Advertisement for Manpower Recruitment Published on Date 17/07/2016 in Hindustan Times and Hindustan daily newspaper



Fig.2: Inline Electrolysis System Installation at JULU





Fig. 3: Tender Notice for the supply and installation of Uttaranchal Koop Well Published on Date 17/11/2016 in Hindustan daily newspaper

रहा। 500 तथा 1000 रुपये के पुराने नोटों के बदले अवैध रूप से सोना बचने वाले कारोबारियों पर लगाम के लिए हुई छापेमारी के विरोध में कारोबारियों ने दुकानें बंद रखी हैं। (एजेंसी)

12 माह की पूर्णता अवधि के साथ भारतीय विमानपत्तन प्राधिकरण के ई-निविदा पोर्टल के माध्यम से नवंबर 2016 में आमंत्रित की जाती है। ई-निविदा को ऑनलाइन जमा करने की अंतिम तिथि 23.12.2016 को 1600 बजे तक है। विस्तृत सूचना के लिए वेबसाइट www.aai.aero या <https://etender.aai.aero/ir/portal> पर लॉग ऑन करें। इस संबंध में आगे कोई भी स्पष्टीकरण/संशोधन केवल मा.नि.प्रा. की वेबसाइट पर ही जमा जाएगा। एन-108 / 16-17

अधिक जानकारी के लिए, कृपया सन मिशन डैन्ड लखण्ड, काफवापुरी, 24123006 ई-मेल ashokpro@smi.org दिव्यपी : सनी सुदि-पत्र / संकोचन को केवल उल्लिखित वेबसाइट पर ही नहीं की जाएगी। मोलीवाताओं से अंदर से वेबसाइट देखते रहें।

**Office of the Cooperation Centre for Riverbank Filtration
Jal Bhawan 'B' Block, Nehru Colony, Dehradun**

Letter No. 91/ Tender Notice /2016-17/CCRBF Date: 16/11/2016

Tender Notice

We are inviting the following tender according to vide letter no. 91/ Tender Notice/2016-17 dated 16/11/2016 Other terms and conditions are mentioned in the tender documents.

Tender No	EMD in Rs.	Cost of tender+ VAT @ 13.50% in Rs.	Last date of Sale of tender	Tender receiving upto 3:00 pm and opening at 4:00 pm on same date
1	15,000.00	500.00+68.00	02/12/16	02/12/16

Supply and installation of Uttaranchal Koop

M.S. Uttaranchal Koop Having 4 laterals size 350 mm As per CCRBF drawing and Design.

For further details please contact :- Principal Investigator (NMHS), Cooperation Centre for Riverbank Filtration, Jal Bhawan, 'B' Block, Nehru Colony, Dehradun.

**Principal Investigator
NMHS**

**Uttarakhand Health & Family Welfare Society
Danda Lakhond, Post Gulab, Dehradun, Uttarakhand**

Sealed bids are invited under two bids: 1. Uttarakhnd Health & Family Welfare Society, Danda Lakhond, Dehradun, Uttarakhand, India. 2. Travel agencies having registered services on a Conditioned & Non-Air Conditioned) on required basis, for a period of 1 year working day (upto 5.00 pm) from the Room of Family Welfare Society, Danda Lakhond Dehradun from 17.11.2016 and should be in separate sealed envelope. The envelope should reach UKHF Dehradun till 02.00 noon. The technical and financial documents should be submitted on 30 November, 2016. Pre-bid meeting will be held in the office of Uttarakhand Health & Family Welfare Society, Danda Lakhond Dehradun. Bidders have to deposit EMD of Rs 1,00,000/- in favour of Uttarakhand Health & Family Welfare Society. The technical and financial documents can be downloaded from the Society's website (www.ukhfw.org). The Mission Director, Uttarakhand Health & Family Welfare Society, Dehradun, reserves the right to reject any or all the tenders without any reason whatsoever.

Uttarakhand Health & Family Welfare Society

Date: 17/11/2016
 प्रधान सम्पादक: शशि शंकर
 हिन्दुस्तान मीडिया वेन्चर्स लिमिटेड (एच.एम.वी.एल.) के लिए अजय स्थानीय सम्पादक: निरेश गुरुरानी
 * सम्पादन इस अंक में प्रकाशित समाचार के चयन एवं सम्पादन हेतु

NEWSPAPER - HINDUSTAN (HINDI)

Fig. 3: Tender document for the supply and installation of Uttaranchal Koop Well

Fig. 3: Tender document for the supply and installation of Uttaranchal Koop Well

Office of the Cooperation Centre for Riverbank Filtration,
Jal Bhawan, 'B' Block, Nehru Colony, Dehradun.

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Supply and installation of Uttaranchal Koop				
1	M.S. Uttaranchal Koop having 4 laterals size 350 mm As per CCRBF drawing and design.	500.00 + 68.00	02/12/16	02/12/16
	15,000.00			

For further details please contact: - Principal Investigator (NMHS), Cooperation Centre for Riverbank Filtration, Jal Bhawan, 'B' Block, Nehru Colony, Dehradun


Principal Investigator
NMHS

Not for Publication.

Letter No. 91 / Tender Notice /2016-17 /CCRFB

Date: 16/11/2016

Copy to the following for information and necessary action:
1. Notice Board CCRBF

Copy to the following with this request to publish this corrigendum at the Govt. Rates in Newspaper on date 17/11/2016. The payment shall not be made for misprinting or indistinctly printed or published after due date. The original copy of News Paper published shall be submitted with the bill at the time of payment.

1. M/S Hindustan Media Ventures Limited, 5 Ashok Vihar, GMS Road, Dehradun in Hindustan (Hindi) edition once in 100 sq.cm (10 cm*10 cm).


Principal Investigator
NMHS

Name of the PI:- Mr. P.S. Patwal, Project Scientist and Manager CCRBF

Signature :- 

Date:- 25/11/16