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No-J-12011/1/2010-NRCD-II
Government of India
Ministry of Environment & Forests
NATIONAL RIVER CONSERVATION DIRECTORATE

.....
"Paryavaran Bhawan", C.G.O. Complex,
Lodhi Road, New Delhi-110003
Dated:- 11th April, 2011

To

The Chairman,
Central Pollution Control Board,
"Parivesh Bhawan, East Arjan Nagar,
Delhi-110032.

Sub:- Administrative Approval and Expenditure Sanction for the demonstration/pilot project of "In-situ treatment of sewage through bio-remediation of City Drain, Farukhabad (UP)" under National Ganga River Basin Authority(NGRBA) at an estimated cost of Rs. 0.94 crore (Rupees Ninety four lakhs only) (including one year O&M cost).

Sir,

I am directed to convey the sanction of the President to the grant of Administrative Approval and Expenditure Sanction for the demonstration/pilot project of "In-situ treatment of sewage through bio-remediation of City Drain, Farukhabad (UP)" under National Ganga River Basin Authority(NGRBA) at an estimated cost of **Rs. 0.94 crore (Rupees Ninety four lakh only)** (including one year O&M cost)..

2. The break-up of the sanctioned cost is at **ANNEXURE-1**. Total duration of the project will be 12 months.

3. Administrative Approval and Expenditure Sanction for the scheme is granted subject to the following conditions:-

- i. CPCB will be the nodal agency for implementation of the project to whom funds for the project will be released by the Ministry.
- ii. Funds will be released in suitable installments to CPCB and release of funds will be considered only after receipt of Utilization Certificate in form GFR 19A duly signed by all concerned and the Expenditure Statement

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showing clearly the progress of implementation of works in terms of percentages.

- iii. The implementation of the scheme may be closely monitored to ensure completion of the scheme within the sanctioned cost and time. Any increase in cost over and above the sanctioned cost due to whatsoever reasons shall be borne by the firm (M/s Clover Organic Pvt. Ltd) and Govt's liability shall not exceed the sanctioned amount of Rs.94 lakh.
- iv. CPCB shall report back the expenditure incurred on the activities approved in the Sanction Order at prescribed intervals.
- v. The cost benefit study of the project shall be clearly brought out along with the learnings by CPCB.
- vi. CPCB shall ensure the involvement of concerned State Governments dovetailing of other pollution abatement schemes being implemented/under formulation and also their commitment in respect of O&M costs.
- vii. MoA containing all the salient conditions evolved during appraisal of the projects in various meetings shall be executed. A Third Party Inspection agency shall also be explored for the project.
- viii. The microbial consortia proposed to be used should not be genetically modified. Necessary certification in this regard need to be furnished. Genetically Modified Organisms (GMOs) and non-pathogen and indigenous nature of microbial consortia need to be verified by CPCB.
- ix. The firm concerned with the project (M/s Clover Organic Pvt. Ltd), shall give performance guarantee for their results/outputs, especially in terms of BOD, SS and coliforms.
- x. For in-situ treatment, there should not be any major alteration/modification of the drains. However, the firm (M/s Clover Organic Pvt. Ltd) should tie with the local departments/ authorities regarding electrical fittings, place for equipments and other infrastructure facilities proposed, if any.
- xi. CPCB will monitor the performance of the project on regular basis.



- xii. The firm (M/s Clover Organic Pvt. Ltd) shall submit fortnightly progress/performance monitoring reports to CPCB.
- xiii. MoEF is not liable for any unseen expenditure or loss incurred during execution of the demonstration projects due to natural calamities or any other local circumstances.
- xiv. CPCB shall obtain from the firm (M/s Clover Organic Pvt. Ltd) a Bank Guarantee equivalent to the amount to be released against each installment, before the said installment is released. The next installment will be released only on receipt of the progress report (physical and financial) of the prior installment & requisite performance monitoring reports.
- xv. An assessment of the progress/performance of each project shall be conducted by CPCB after 3 months of commencement of the studies (after installation of demonstration set-up is complete). Subsequent release of installments will be linked to the satisfactory performance of the project.
- xvi. Any re-appropriation/re-allocation of fund within the sanctioned cost shall be allowed for demonstration of the project only with prior permission of CPCB/MoEF. However, the overall sanctioned cost of the project shall remain unchanged for each location.
- xvii. Any dispute arising during execution of the project shall be settled through negotiations with CPCB and the decision of the Chairman, CPCB shall be the final in such cases.
- xviii. The projects shall be executed in accordance with the Water (Prevention and Control of Pollution) Act, 1974 and the Environment (Protection) Act, 1986.
- xix. The samples shall be analyzed in the laboratories recognized under EPA and the data generated during the project shall not be published anywhere without prior permission of CPCB.
- xx. As suggested by the Research Advisory Committee (RAC) of NGRBA the research aspects of the project also need to be fully taken care of by CPCB. Standardization of the design parameters for the technology and



preparation of protocols for achieving reliable & replicable processes would be part of the research aspects, which may be done separately by CPCB.

- xxi. CPCB may also consider introducing training also for achieving continuity & replication of the outcome for river conservation schemes. CPCB may also explore developing a better indicator of bacterial quality of waste water.
- xxii. A Committee constituted by the Ministry with experts from different fields of microbiology, waste water engineering, bio-technology together with MoEF representatives will monitor and evaluate the project.
- xxiii. An integrated proposal shall be formulated by CPCB on research aspects of bio-remediation addressing and incorporating different issues related to optimization of the process/technology, design parameters, reliability and replicability for consideration by RAC of NGRBA.
- xxiv. The issue of Intellectual Property Rights (IPR), wherever applicable, may be kept in view in all the demonstration/pilot scale projects being implemented by the CPCB.

4. Approval is also subject to the compliance conditions issued vide Addl. Secretary & Project Director's D.No.A-28011/1/98-NRCD-II dated 6-7-1998 (copy enclosed)

5. Observations/ conditions contained in the Minutes of meetings of RAC shall be adhered to by CPCB while implementing the project. CPCB's letter for choice of the firm selected for the project and the special interest purported to be served is enclosed at **Annexure-2**.

6. The expenditure of the scheme is debitable to Major Head "3435"-04.101.06.03.35-Grants-in-aid-National Ganga River Basin Authority(NGRBA) - (Capital Assets)- under Demand No.30-Ministry of Environment & Forests for the year 2011-2012 (Plan).

7. This issues under the powers delegated to the Ministry of Environment & Forests and with the approval of Secretary, Ministry of Environment & Forests as well as with the concurrence of IFD vide their Dy. No.766/AS(FA)/F/10 dated 23-3-2011.

Yours faithfully


(C. UPPILI)

Under Secretary to the Government of India

Copy forwarded for information and necessary action to:-

- 1) The Pay and Accounts Officer, Ministry of Environment and Forests, Paryavaran Bhawan, New Delhi.
- 2) DDO (NRCD).
- 3) Joint Director of Audit-II, Commercial, Scientific and Misc. Works, AGCR Building, I.P. Estates, New Delhi.
- ✓4) Shri A.B. Akolkar, Scientist 'F' & I/c PCP, Central Pollution Control Board, "Parivesh Bhawan", East Arjun Nagar, Shahdara Delhi-110032.
- 5) District Magistrate, Farukhabad, U.P
- 6) Principal Secretary, Department of Urban Development, Govt. of Uttar Pradesh, Bapu Bhawan, Sachivalaya, Lucknow (UP).
- 7) The Managing Director, U.P. Jal Nigam 6, Rana Pratap Marg, Lucknow.
- 8) Dir.(Fin)/Dir(BS)/Dir(KCR)/DD(SS)/US (F)/US (P).
- 9) Sanction Folder/Guard File/Computer Cell.


(C.UPPILI)

Under Secretary to the Govt. India

ANNEXURE-I

Break-up of the cost for the project of "In situ" Sewerage Treatment at City Drain, Farrukhabad town of U.P", under National Ganga River Basin Authority (NGRBA).

S.No.	Item/particulars	Cost (In Rs.)
1.	Infrastructure to create MIMIC	15,96,100
2.	Pre-treatment costs	1,76,000
3.	Inputs	38,39,000
4.	Manpower	11,40,000
5.	Protective Gear for the Manpower	52,800
6.	Laboratory Testing	5,76,000
7.	Consultant Charges/Technical support by IIT, Kanpur/Consultant	16,73,400
8.	Sub-Total:-	90,53,300
9.	Contigencies @ 5% (not on item at Sl.No.7).	3,68,995
	Total:-	94,22,295

**Total cost :- Rs.94,22,295/-
Say Rs.0.94 crore**



CENTRAL POLLUTION CONTROL BOARD

(Ministry of Environment & Forests)

Parivesh Bhawan, C.B.D. Cum-Office Complex,

East Arjun Nagar, Shahdara, Delhi-110032

Tel. 22307078, 43102030, Telefax- 22307863

Website: www.cpcb.nic.in

F. No. B-11012/1/PCP/2010-11

Date 21.03.2011

To,

The Deputy Director
(Shri S.K.Singh)
Ministry of Environment & Forests
Paryavaran Bhawan, C. G. O Complex
Lodi Road, Delhi - 110 003

Sub : In-situ Sewage Treatment-Proposals submitted by CPCB-reg.

Ref : No. J-14011/5/2010-NRCD-II, dt. 18.03.2011

Sir,

With reference to the above mentioned subject and pursuing to the observations made by I.F. Division of Ministry of Environment & Forests, the following clarifications are submitted;

(i) Adequate justification for asking the Firms (demonstrating its technology to undertake the project on single source basis).

The Central Pollution Control Board (CPCB) sought expression of interest inviting proposals from the Firms to present their technologies on In-situ bio-remediation (IST) on 01.04.2010 (vide no. B-19011/1/PCP/2009) to be applied for treating sewage flowing in drains. Through search process, the Firms already having experience were asked to respond and also open web-advertisement on 01.04.2010 was placed. CPCB scanned each technology presented by the individual Firms (Seven) and the Expert Committee on reviewing each technology, recommended that demonstration of each technology should be taken up by CPCB at-once.

The technology proposed by each Firm for demonstration on river Ganga is unique. Each technology and techniques adopted employing microbial consortia belong to each individual Firm. The identification of microbes their permutation and combination differs in each technology and creating conducive conditions and microcosm in the sewage drain also differ variedly which makes each technology unique.

A

Each Firm has given a proprietary undertaking to the effect of their technology.

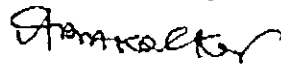
Since, each technology is innovative and there is no commercialization of these technologies by different Firms and hence, a demonstrative study has been proposed by allotting one drain to each one. CPCB will study/ monitor each technology and a comprehensive R & D study will be taken up. These in-situ demonstrative projects and the R & D study through CPCB would provide the basis for guidelines and the protocols for execution of in-situ sewage treatment at the national level.

(ii) Whether the Firm has the proprietary technology which is not available elsewhere.

The each participating Firm is using a blend of microbial consortia known exclusively to them and the techniques adopted for bringing interface between microbes and the sewage has an individual's proprietary technique and technology. A statement given by each Firm towards proprietary of technology is attached (Annexure-I to IV).

This issues with approval of Chairman, CPCB.

Your Faithfully



A. B. Akolkar 21.3.11
Scientist 'F' & I/c PCP
adaba.cpcb@nic.in

To

Dated 19-03-2011

Shri A.B Akolkar.
Additional Director.
Central Pollution Control Board
Parivesh Bhavan,
East Arjun nagar
Shadara,
Delhi-110032,

Sub: In -Situ Sewage Treatment in Ganga Basin.

Dear Sir,

With reference to the subject mentioned above and our subsequent projects proposal we hereby provide the following information :-

US Environ is the Sole Provider of EBB Technology (Eco-Bio Block) in India.

EBB Technology is Patented. (Patent Number:- US 6,989,266 B2/Jan. 24, 2006.)

EBB Technology will be used in Bakarganj Nala in Patna.

Thanking you
Yours faithfully


(Sunil Dalal)

For US Environ
Mob: 09311428159

Amrit Clean Water Technologies Private Limited

Dated 21/03/2011

Central Pollution Control Board
Parivesh Bhavan, East Arjun Nagar
Shahdara, New Delhi - 110032

Kind Attn: Dr. A. B. Akolkar, Additional Director

Sub: Clarification with respect to DPR for In-situ sewage treatment at Mori Gate Nala, Allahabad.

Dear Sir,

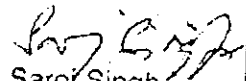
This has reference to your query regarding the products & technology that we have offered in the DPR for In-situ treatment of sewage at Mori Gate Nala, Allahabad.

We clarify as under:

- The microbes contained in the product are not genetically modified and are 100% naturally occurring. They have been selected from the nature, isolated and concentrated for their special ability to degrade a wide range of polluting compounds. The unique technology used by us in development of the product allows co-existence of different strains of microbes blended together without outcompeting each other, thereby withholding the effects.
- The consortium of microbes contained in the products is concentrated and blended with a proprietary/patented technology of Amrit Clean Water Technologies Pvt. Ltd.
- The products & technology and their corresponding application/dosage protocol and conditions furnished for In-situ treatment of sewage is a unique technology developed and implemented exclusively by Amrit Clean Water Technologies Pvt. Ltd.

Thanks and regards,

For Amrit Clean Water Technologies Pvt. Ltd.


Saroj Singh
Director

16 March 2011

Our reference: CLOVER/CPCB/2010-11/ 3196



Prof. S.P. Gautam,
Chairman,
Central Pollution Control Board,
'Parivesh Bhawan',
East Arjun Nagar,
Delhi - 110 032

USE OF PROPRIETARY TECHNOLOGY

Dear Sir,

This has reference to our proposal MoEF/2011/106/2, which was handed over to your colleagues during the meeting at MoEF on 28th February 2011.

We would like to state here that:

1. Bio-mimicry is a very new Science. The world is recognizing the importance of taking design and process solutions from nature to solve problems being confronted by mankind.
2. We are the only organization in the World, who has thought of using Bio-mimicry to offer a solution to carry out in-situ treatment of storm water drains. There is no other organization globally, who have thought of mimicking the 'self-cleansing process' of rivers to offer this solution.
3. Many man-hours have been invested in coming up with this unique and innovative solution. Hence, this is our sole and proprietary technology.

Thanking you,

Yours faithfully,
For CLOVER ORGANIC PVT. LTD.


(SANJAY AGGARWAL)
CEO

Clover Organic Pvt. Ltd.

JD (1)



Manoj Sinha
Tel: 4562281

अपर सचिव एवं पर्यावरण
राष्ट्रीय नदी प्राधिका : नि
पर्यावरण एवं वन विभा
(नगर प्रकरण)
Additional Secretary & Pro
National River Conservatio
~~Secretary of Environment~~
(Govt. of India)

DD No. A-28011/1/98-NRCD. II

July 6, 1998

Dear

The sustainability of river Action Plans largely depends upon the capacity of the Municipalities/Corporations to operate and maintain the assets created under the Plans. Operation & maintenance of the assets created under the Ganga Action Plan has suffered significantly due to the non-availability of adequate funds with the local bodies entrusted with the task.

21. It has now been decided that unless the viability of the concerned Municipality/Corporation is established, detailed project reports of various schemes under the Action Plans for such a town will not be approved.

S/Adm (S)
19/7/98

In order to expedite sanction of these programmes, I would request you to send the following information latest by 20.7.98 in respect of each Municipality/Corporation in the river Action Plan towns of your State:

A
Adm (S)
19/7/98
19/7/98
19/7/98

- ii) Immediate availability of land for Action Plan schemes.
- iii) a) Commitment for O&M of Action Plan assets.
b) Details of property tax recovered in each town
c) Income and expenditure statements of the last 5 years town wise and
d) Plans to reduce the deficit.
- iii) Status of constitution of Citizen's Monitoring Committee in each town.
- iv) Arrangements of maintenance of existing branch/lateral sewerage system as also that of

