別添資料

- 1. 事前評価調査日程
- 2. 主要面談者リスト
- 3. ミニッツ
- 4. プロジェクト・デザイン・マトリックス (案) (日本語)
- 5. ジョソール県地図
- 6. 先方政府実施体制図
- 7. 砒素対策委員会に関する政令
- 8. PCM ワークショップ報告

持続的砒素汚染対策プロジェクト(プロテコ) 事前評価調査 日程

	Y	1		11年
1	3月4日	金	日本-バンコク	バンコク
			バンコク-ダッカ TG321,	ダッカ
2	3月5日	土	15:00 地方行政局水供給局長(Joint Secretary)表敬	
			15:30 地方行政局水供給課長 (Deputy Secretary) 協議	
			9:00 日本大使館表敬	ダッカ
			11:00 JICA 事務所表敬及び打ち合わせ	
3	3月6日	月	12:00 対外経済関係局表敬	
			14:00 公衆衛生局協議	
			15:30 保健局協議	
			7:20 ダッカージョソール (GMZ)	シ゛ョソール
			9:00 ジョソール県知事、地方自治担当 (ADLG)	
4	3月7日	月	12:15 公衆衛生局県事務所所長 (Executive Engineer)	
			14:30 ユニオン砒素対策委員会、ワードメンバー	
			16:30 保健局県事務所長 (Civil Sergion)	
10.00			10:00 チョーガチャ郡長	シ゛ョソール
			 11:00 チョーガチャ郡保健家族計画官	
			 12:00 マルア村利用者組合	
5	3月8日	火	 14:30 シャシャ郡長	シ*ョソール
			 17:00 シャムタ村(Chowdhury Para)利用者組合	
6	3月9日	水	9:30-17:00 ジョソール PCM ワークショップ	シ゛ョソール
			14:00 ジョソール県知事	 ダッカ
7	3月10日	木	16:00 公衆衛生局県事務所所長	
8	3月11日	金	団内打ち合わせ	ダッカ
			事前準備	ダッカ
9	3月12日	土	14:00 合同会議(地方行政局、公衆衛生局、保健局他)	
			10:30 地方行政局	ダッカ
10	3月13日	B	団内打ち合わせ	
			10:30 APSU	ダッカ
			12:30 BAMWASP	
11	3月14日	月	14:00 UNICEF	
			16:00 DANIDA	
			13:00 地方行政局	ダッカ
12	3月15日	火	15:00 UPI	
			 団内打ち合わせ	ダッカ
13	3月16日.	水	15:00 ミニッツ署名(対外経済関係局)	
			団内打ち合わせ	
14	3月17日	 木	14:00 JICA 事務所報告	
			16:00 日本大使館報告	
15	3月18日	金	ダッカーバンコク TG322	
16	3月19日	土	日本	199(F J
10	3 73 13 1	L-	<u>н</u>	

主要面談者リスト

- 1. 地方行政局 (Local Government Division)、地方自治農村開発組合省
- (1) Mr. Md. Moklesur Rahman, 水供給局長 Joint Secretary (Water Supply)
- (2) Mr. M. Shafiqul Islam, 水供給課長 Deputy Secretary (Water Supply)
- (3) Mr. Ashok Madhabroy, 水供給課職員 Senior Assitant Secretary (Water Supply)
- 2. 対外経済関係局 (Economic Cooperation Division)、大蔵省
- (1) Mr. M. Emdadul Haque, 日本課長 Deputy Secretary
- 3. 公衆衛生局 (Department of Public Health and Engineering)
- (1) Mr. S. M. Ihtishamul Huq, 副局長(地下水担当) Superintending Engineer, Ground Water Circle
- (2) Mr. Md Saiful Rahman, ジョソール県事務所所長 Executive Engineer, Jessore
- (3) Mr. Mr. Md. Abul Hossain ジョソール県事務所エンジニア

4. 保健局

- (1) Dr. Hd Siddique Rahman, 砒素プログラムマネージャー(補佐) Deputy Program Manager
- (2) Mr. Abul Bashar Md. Khoshru, ジョソール県事務所所長 Civil Sergion
- (3) Mr. Dr. Md. Salah Uddin Khan, チョーガチャ郡保健所長 UHFPO, Chowgacha

5. ジョソール県事務所

- (1) Mr. Md. Abdul Wazed, ジョソール県知事 Deputy Commissioner
- (2) Mr. Md. Rafiqul Islam, 地方自治担当 Assistant Director, Local Government

6. 郡事務所

- (1) Mr. Md. Laisur Rahman, シャシャ郡長 UNO Sharsha
- (2) Mr. Ashok Kumar Debnath, チョーガチャ郡長 UNO Chowgacha

7. 日本大使館

- (1) 堀口松城大使
- (2) 宇喜多秀俊公使
- (3) 紀谷昌彦参事官
- (4) 松本曜一書記官

8. JICA 専門家

- (1) 緒方隆二 砒素対策アドバイザー(地方行政局配属)
- (2) 米川直之 砒素対策アドバイザー(公衆衛生局配属)

MIMUTES OF MEETING BETWEEN THE JAPANESE PREPARATORY STUDY TEAM AND

THE GOVERNMENT OF THE PEOPLE'S REPUBLIC OF BANGLADESH
ON

JAPANESE TECHNICAL COOPERATION PROJECT

FOR

SUSTAINABLE ARSENIC MITIGATION
UNDER THE INTEGRATED LOCAL GOVERNMENT SYSTEM

The Japanese Preparatory Study Team (hereinafter referred to as "the team") organized by the Japan International Cooperation Agency (hereinafter referred to as "JICA"), headed by Mr. Noriaki Nagatomo visited the people's republic of Bangladesh from March 5 to March 18, 2005 for the purpose of preparatory study of the technical cooperation project concerning sustainable arsenic mitigation under integrated local government system (hereinafter referred to as "the project").

During its stay in Bangladesh, the team exchanged their views and had a series of meetings with concerned government officials.

As a result of meetings, both sides agreed the matters referred to in the documents attached hereto.

Dhaka, March 16, 2005

Noriaki Nagatomo

Leader

The Japanese Preparatory Study Team
Japan International Cooperation Agency

M. Emadadul Haque

Deputy Secretary

Economic Relations Department

Ministry of Finance

M. Shafiqul Islam

Deputy Secretary

Local Government Division

Ministry of Local Government, Rural

Development & Co-operatives

ATTACHED DOCUMENT

Purposes of the study

The study was conducted with a view to achieving the following purposes;

- To collect basic information and data on the situation of arsenic mitigation in Bangladesh and in Jessore
- To confirm needs of Bangladesh through field visits and a participatory workshop
- To agree on a basic framework of the project including project purpose, implementation system, and necessary measures born by Japanese side and Bangladeshi side
- To evaluate the expected achievement of the project

II. PCM workshop

For the purpose of identifying and clarifying the objective of the Project, the Team and the Bangladeshi side held a Project Cycle Management (hereinafter referred to as "PCM") workshop during the study. Through the workshop, the participants identified the means of achieving the project goal and designed the process of the Project. Attendees of the workshop are shown in Annex 1.

1. Findings from the Workshop

The participants analyzed the problems, identified the objectives and created consensus on the outline of the Project.

2. Draft of the Project Design Matrix

The Team has shown a draft of the Project Design Matrix (hereinafter referred to as "PDM") to the Bangladeshi side in Annex 2 at the joint meeting held in Dhaka on March 12, 2005 (Participants list attached as Annex 3). The PDM indicates the entire Project components, such as the project purpose, the outputs, the activities and the necessary inputs, as well as the important assumptions and the pre-conditions of the Project. The Bangladeshi side and Japanese side tentatively agreed the contents of the PDM, although it will be finalized later.

III. Framework of the project

For the formulation of the master plan of the Project, both sides tentatively confirmed the followings as the major items of the plan. This plan was examined based on the

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request from Bangladeshi side.

1. The title of the Project

Project for Sustainable Arsenic Mitigation under the Integrated Local Government System in Jessore

2. Duration of the project

The duration of the project will be three (3) years from 2005. The date of the project's commencement will be clarified in the R/D to be agreed by the both parties.

3. Project Target

1) Target Area

Sharsha Upazila and Chowgaccha Upazila, Jessore District

2) Target Groups

Villagers in the Target Area, Line Department and Local Government Institutions

4. Overall Goal

- Health damages due to arsenic-contaminated drinking water are to be prevented/improved in the Project Target Area.
- Local Government Institutions (LGIs) capacity in implementing arsenic mitigation is strengthened.

5. Project Objectives

Sustainable arsenic mitigation is carried out with villagers' initiatives.

6. Expected Outputs

- 1) Conditions for arsenic mitigation carried by villagers are prepared.
- 2) Arsenic mitigation activities are coordinated by Arsenic Mitigation Committees.
- 3) Technical support related to installations, maintenance and operation of various alternative water devices are carried out by DPHE.
- 4) Health conditions of arsenicosis patients are managed by doctors and health workers.
- 5) The outcome of the Project is disseminated.

7. Activities

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- 1-1 Produce guidelines on participatory arsenic mitigation.
- 1-2 Conduct awareness activities.
- 1-3 Form Users Committees.
- 1-4 Establish an application-approval system for installation and repair of alternative water devices.
- 1-5 Install alternative water devices.
- 1-6 Provide training on maintenance and operation of alternative water devices to villagers.

- 2-1 Provide trainings to Arsenic Mitigation Committees at District, Upazila, Union and Ward levels.
- 2-2 Hold Arsenic Mitigation Committees at District, Upazila, Union and Ward levels.
- 2-3 Make a framework of planning and coordination for arsenic mitigation activities in their jurisdiction.
- 3-1 Provide training to DPHE officers on alternative water devices.
- 3-2 Conduct preliminary survey on alternative water device installation.
- 3-3 Provide with appropriate guidance for alternative water device installation.
- 3-4 Provide training to Users Committees and building constructors on alternative water device.
- 4-1 Provide training to doctors and health workers.
- 4-2 Identify arcenicosis patients.
- 4-3 Manage data on arsenicosis patients at Upazila Health Complex.
- 4-4 Provide arsenicosis patients with appropriate guidance.
- 5-1 Holds a JCC meeting hosted by LGD once a year.
- 5-2 Produces and distributes report(s) to stakeholders.
- 5-3 Introduce the outcome of the Project at workshops.
- IV. Measures to be taken by the both sides

For the implementation of the project, both sides agreed to take necessary measures mentioned below.

1. Japanese side

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The Japanese side will take the following measures within the budget allocated for the project.

- Dispatch of experts 6-12
 A list of experts is attached as Annex 4.
- 2) Overseas training 1-2 per year
- 3) Provision of equipment

A tentative list of equipment is attached as Annex 5.

Expenses necessary for implementation of the project
 (Project staff will be hired by JICA under this expenses following its procedures.)

2. Bangladeshi side

The Bangladesh side will take the following measures at its expense.

- 1) Assignment of personnel
 - i-1) The Bangladeshi side assured the counterpart for the project as Annex 6. The role of each counterpart was agreed as described in Annex 7.
 - 1-2) The Bangladeshi side agreed that Local Government Division should inform DPHE, DGHS, DC office, concerned Upazilas and Unions by April 15th in order to ensure that they would extend necessary cooperation for implementation of the project including providing office spaces and bearing running cost such as electricity and water.

2) Land, building and facilities

The Bangladeshi side assured that it would provide sufficient office space to the project as Annex 8.

- 3) Allocation of necessary budget
 - 2-1) Salaries and other allowances for the counterpart personnel
 - 2-2) Bearing running expenses for the office spaces such as electricity and water
 - 2-3) Custom duties and other fiscal charges of a similar nature, cost for custom clearance, storage and domestic transportation for the equipment provided by the Japanese side
 - 2-4) Other contingency expense related to the project

4) TAPP

The Bangladeshi side assured that Local Government Division would prepare TAPP and other necessary documents for implementation of the project and TAPP would be



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approved by the end of May.

V. Others

1) Joint Coordination Committee

Both sides agreed to establish Joint Coordination Committee during the project period so that it can give guidance on activities of the project and coordinate activities among concerned stakeholders. A draft members' list and other details are mentioned in Annex 9.

2) Approximate budget provided by Japanese side for the project

Approximate budget provided by Japanese side for the project will be roughly 20 crore Taka. The amount will be examined based on the result of the study and through finalization of the project by Japanese side. It should be also subject to budget availability of JICA.

Annex 1: Attendance list of PCM workshop in Jessore

Annex 2: Draft PDM

Annex 3: Attendance list of the joint meeting held in Dhaka

Annex 4: A tentative list of experts from Japan

Annex 5: A tentative list of equipment provided by the Japanese side

Annex 6: A list of counterpart from the Bangladeshi side

Annex 7: Role of each counterpart

Annex 8: A list of building and facilities

Annex 9: Joint Coordination Committee

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Project Planning Workshop Sustainable Arsenic Mitigation

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SI #	Name	Designation
1	Mr. Md. Safiqul Islam	Deputy Secretary of LGD
2	Mr. Md. Abdul Wazed	Deputy Commissioner, Jessore
3	Mr. Abul Bashar Md. Khoshru	Civil Surgeon, Jessore
4	Mr. Md Saifur Rahman	Executive Engineer of Jessore DPHE
5	Mr. Dr. Md. Mosharraf Hossain	Deputy Civil Surgeon, Jessore
6	Mr. Md. A. Zaman	Sr. HEO, Jessore
7	Mr. Md. Rafiqul Islam	ADLG, Jessore
8	Mr. Md. Abul Hossain	SDE, DPHE, Jessore
9	Mr. Md. Laisur Rahman	UNO, Sharsha
10	Mr. Ashok Kumar Debnath	UNO, Chowgacha
11	Mr. Dr. Md. Salah Uddin Khan	UH & FPO, Chowgacha
12	Mr. Md. Abdul Aziz	Sub-Assistant Engineer, Sharsha
13	Mr. Md. Golam Rabbanni	Sub-Assistant Engineer, Chowgacha
14	Mr. Md. Abdur Razzak Mollah	Chairman, Bagachara Union, Sharsha
15	Mr. Md. Mofijul Islam Chotto	Chairman, Goga Union, Sharsha
16	Mr. Md. Abdur Rahman	Chairman, Jagodispur Union, Chowgacha
17	Mr. Md. Shohidul	Engineer, PWD, Jessore
18	Mr. Md. Abdur Razzak	Chairman, Village AMC, Marua, Chowgacha
19	Mr. Md. Yamanur Rahman	UP Member, Kayba W # 9, Sharsha
20	Mr. Md. Nizam Uddin '	UP Member, Kayba W # 7, Sharsha
21	Mr. Ashok Kumar Ghosh	UP Member, Goga W # 4, Sharsha
		Chairman of dadkhali Khalderpara User Committee
22	Mrs. Jahanara	& 110 May 1 a 1 a 1 a 1 a 1 a 1 a 1 a 1 a 1 a 1
23	Mr. Md. Chahaiahan Kahir	UP Member, Kayba W #1,2,3 (Fe), Sharsha
24	Mr. Md. Shahajahan Kabir Mr. Md. Sher Ali Biswas	Chairman, Goga Karigor Para User's Committee
25	Mrs. Amena Khatun	Chairman, Samta West Para User's Committee
	Mrs. Jahanara Khatun	UP Member, Goga W # 1,2,3 (Fe), Sharsha
26	Mr. Nokiaki Nagatomo	UP Member, Bagachara W # 7,8,9 (Fe), Sharsha
j		JICA Preliminary Evaluation Survey Mission
28	Mr. Takuya Sugawara	JICA Preliminary Evaluation Survey Mission
29	Mr. Kazuyuki Kawahara	JICA Preliminary Evaluation Survey Mission
30	Ms. Shina Okaichi	JICA Preliminary Evaluation Survey Mission
31	Ms. Asako Takahashi	JICA Preliminary Evaluation Survey Mission
32	Mr. Naoyuki Yonekaua	JiCA Expert



33	Mr. Ryuji Ogata	JICA Expert
34	Mr. Julfikar Alı	JICA Deputy Director
35	Mr. Tarun Kanti Hore	Asia Arsenic Network
36	Mr. Asadul Latif	Asia Arsenic Network
37	Mr. Kamruzzaman	Asia Arsenic Network
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Venue Comperent room

Date 17.3.05

Chair

Conference room 1 Md Hokeleser Ruhman

Name & Signature of the Participants

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	Designation	Deputy Secretary			
	Nemo	Dr. Hd. Siddigux Rehman	D& H S	9899207	32Km
-	Designation	DPH (ASUNIC)	, <u> </u>		
	Name	M. EMDADUL HAQ	JE ERD .	9119311	(2)
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	Name	Asako Takahashi	Asia Arsenic		× 24 1-0
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	Nemo	Rywi Ogata	LGO/JECA		(子之)()
	Designation	Arsenic Miligalian	10017 J.2CA		清天隆
	Neme	Shina OKAICHI	JICA/GLM		かりナ大
	Designation	Consultant	JICH GLM	•	(四名天东

Annex 4

LIST OF JAPANESE EXPERTS

- 1. Chief Advisor / Project Manager
- 2. Project Coordinator
- 3. Coordination of local government institutions
- 4. Community Participation / Awareness
- 5. Installation of alternative water devices
- 6. Public Health

7. Other short term experts will be assigned when necessary for smooth and effective implementation of the project

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LIST OF MACHINERY AND EQUIPMENT

- 1. 4 Wheel Drive Jeep 2
- 2. Other materials and equipment necessary for developing capacity of stakeholders will be provided based on the mutual agreement.

Notes: The contents, specifications and quantity of equipment to be provided each year will be discussed in principle every year between the Japanese experts and the Bangladesh counterpart personnel based on the annual plan of the project, within the allocated budget of the Japanese fiscal year.

LIST OF BANGLADESH COUNTERPART AND ADMINISTRATIVE PERSONNEL

- 1. Local Government Division, Ministry of Local Government, Rural Development & Co-operatives
 - Deputy Secretary, Water Supply
- 2. Deputy Commissioner's office
 - Deputy Commissioner, Chairman of District Arsenic Mitigation Committee
 - Deputy Director, Local Government, Jessore
- 3. Department of Public Health and Engineering
 - Superintending Engineer, DPHE
 - Executive Engineer, DPHE Jessore
 - Sub Assistant Engineer, Sharsha and Chowgacha
- 4. Directorate of Health Services
 - Deputy Programme Manager (Arsenic), DGHS
 - Civil Sergeon, Jessore
 - UHFPO in Sharsha and Chowgacha
- 5. UNO of Sharsha, Chowgacha, Chairmen of Upazila Arsenic Mitigation Committee
- 6. Union Chairmen under Sharsha and Chowgacha Upazila, Chairmen of Union Arsenic Mitigation Committee

ROLE OF EACH COUNTERPART

- 1. Deputy Secretary, Local Government Division
 - -Overall management and supervision of the project
 - -Coordination among relevant ministries and organization
 - Necessary procedures, guidance and instruction for implementation of the project
 - Organizing Joint Coordination Committee
 - Bearing cost related to equipment provided by the project such as custom duty, clearance cost and internal transportation etc.
- 2. Deputy Commissioner
 - -Convening Arsenic Mitigation Committee
 - Coordination among relevant stakeholders in Jessore for the project
 - -Providing office space for the project at Deputy Commissioner's office
 - Bearing running cost for the office such as electricity and water
- 3. Deputy Director for Local Government, Jessore
 - -Focal point of the project in Jessore
 - -Liaison with LGD, DC, other government organizations and the project
- 4. Department of Public Health and Engineering in Jessore
 - Implementation of concerned activities described in the draft PDM with the project support
- 5. Civil Surgeon office in Jessore
 - Implementation of concerned activities described in the draft PDM with the project support
- 6. UNO of Sharsha and Chowgacha
 - -Convening Upazila Arsenic Mitigation Committee and taking a lead of concerned activities described in the draft PDM with the project support
 - -(Chowgacha) Providing office spaces with basic facilities for the project in Upazila complex
 - -(Chowgacha) Bearing running costs for the offices such as electricity, gas and



water etc.

- 7. Union Chairmans of each union
 - -Convening Union Arsenic Mitigation Committee and taking a lead of concerned activities described in the draft PDM with the project support

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Annex 8

LIST OF BUILDINGS AND FACILITIES

1. Project offices and facilities at Jessore Deputy Commisioners Office and DPHE Executive Engineer Office, and at Chowgacha Upazila Complex

2. Other facilities mutually agreed upon as necessary for the implementation of the project

JOINT COORDINATION COMMITTEE

The Joint Coordination Committee, which consists of both the Japanese side and the Bangladeshi side, will be established for the smooth and effective implementation of the project.

I. Functions

The Joint Coordination Committee will meet at least once a year or whenever necessity arises in order to fulfill the following functions;

- 1-1. To formulate the Annual Plan of Operation of the project
- 1-2. To review the overall progress and achievement of the project
- 1-3. To exchange views on major issues arising from or in connection with implementation of the project and to give guidance to the project and the Bangladesh counterparts if necessary

2. Composition

2-1. Chairperson

Joint Secretary (Water Supply), Local Government Division

2-2. Co-chairperson

Resident Representative, JICA Bangladesh Office

2-3. Members

- Bangladeshi side

Deputy Secretary (Water Supply), Local Government Division

Deputy Commissioner, Jessore

Deputy Secretary, ERD

Deputy Chief, Local Government Division

Civil Surgeon, Jessore

Executive Engineer DPHE, Jessore

Senior Assistant Secretary, Local Government Division

Representative from Planning Commission

Representative from IMED

Representative from Ministry of Environment and Forestry

A)

Forestry

Representative from BUET
Representative from Directrate General of Health Services
Representative from Department of Public Health Engineering
Representative from National Institute of Preventive & Social Medicine (NIPSOM)
UNO (from respective Upazila)
Deputy Director, Local Government, Jessore

- Japanese side

Official(s) in charge, JICA Bangladesh Office Experts of the project

Note: Official(s) of Embassy of Japan to Bangladesh may attend the Joint Coordination Committee as observer(s).

プロジェクト・デザイン・マトリックス(PDM)

ブロジェクト名 日本創実施機 バングラギシュ	プロジェクト名:持続的砒素汚染対策プロジェクト 日本側変施機関・国際協力機構およびアジア砒素ネットワーケ バングラデシュ網責任機関:地方自治局	ターゲット・グループ・プロジェクト対象住民、地方行政機関 対象地域:ジョソール県シャシャ郡、チョーガテャ郡 期間:2005年より3年間		PDM Ver.1 作成日:2005年3月13日
	ブロジェクトの契約	拍標	指模データ入手手段	- 大部条件
上位目標 ブロジェクト対3 世系対策実施(上位目標 プロジェクト対象地域で、砒素汚染飲料水による健原被害が防止・改善される 砒汞対策実施に関する応方行政機関の能力が強化される	・政案中等患者の症状が改善される ・新たな政業中等患者の発生が減少する ・地方行政機関による砒素対策活動の実施数が増加する	都病院のデータ 地方行政機関の業務記録	
プロジェクト目標住民が主体となっ	プロジェクト目標 住民が主体となった情続可能な砒素汚染対策が実施される	・設置した代替水源の80%が住民により條持管理される ・自己の健康を管理する社業中為患者が50%増加する	プロジェクトの調査(ベースライン・フォローアップサーペイ) 住民、関係機関へのインタビュー 住民との参加型ワークショップ	・パングラデシュ政府の地方自治に関する政策や方針が変更されない。 ・教料水以外の母素による暗霧が発生しない ・敬書活発度が著しく高くならない。
アウトブット 1 住民による8 2 砒素対策登	アウトブット 1 住民による砒素汚染対策実施の条件が整う 2 砒素対策委員会により砒素対策活動が調整される	1-1 安全な水を飲用する住民が増加する1-2 住民が批業による健康技客について理解する2 すべての代替水源施設の設置場所と種類が砒素対策委員会 により決定される	プロジェクトの調査結果(関係者へのインタだュー・アンケート) 単素対策委員会の諸事様、地方行政機関へのインタビュー・ア ンケート	・経済的混乱が発生しない ・著しい干ばつが発生しない
3 DPHEにより 4 医策関係者 5 プロジェクト	DPHEにより多様な代替水源設置・株持管理に関する技術支援がなされる 医療関係者により砒素中為患者の健康状態が管理される プロジェクトの成果が普及される	3-1 設置されたすべての代替水源施設がOPHEの技術支援のもに注意的されるとに建設される 3-2 利用者組合により要請された技術支援への対応が増加する医療開係者により健康管理指導を受けた観楽中毒患者が増加する。フロジェケトの成果を知る観素対策関係者が増加する。	DPHEジョソールおよびDPHに卸事務所の業務記録 関係者 (DPHEおよび利用者組合)へのインタビュー 健康管理データ、関係者(医療関係者および配素中毒患者)へ のインタビュー・アンケート ブロジェクトの関査 (関係者へのインタビュー・アンケート)	f-Lーニングを受けた祉業汚染対策に関わる人材の多くが異動しない
1-2 略然 1-3 世紀	住民参加型砒素対策ガイドラインを作成する 啓発活動を実施する 利用者組合を結成する	放入	いたングラドシュ電ン	・パングラデシュ政府の砒素汚染に関する政策や方針が変更されない
	格様に係る申請プロセスを作る る ドレーニングを行う	1. 単門変活道 プロンセクテレゲーンシー 温税を 第十二章 十指甲を80番人ご	1. カウンター/(一トの配筒 2. 土地、建物、施設の提供 3. ローカルコスト	著しい自然災害、治安の悪化、政治的混乱などが発生しない。
_	(汚染対策委員会に対してトレーニングを行う 対策委員会を開催する 計画できる仕組みを作る ニングを行う	16.73 1kgの3.1kg 27.9 住民参加・啓発 代替水源設置 公衆衛生・保健 その也	4. M 22.	・水源の着しい水質熱化が発生しない
3-2 代数23-3 代数23-4 利用者	た <u>の水湖鉄位の専制場を実践する</u> 代替水源建設を指導する 刊用者組合及び建設業者に代替水源に関するトレーニングを行う	2. 後村供与3. 浦外での研修4. 現地衆務末	3	即提条件
4-1 國海2 4-2 思古0 4-3 粤港塔 4-4 民港中	医師及び保健従事者に対しトレーニングを行う 思者の確認を行う 認績院に砒素中毒患者のデータを管理する 弘素中毒患者に透切な指導をする		. 55, 49	・現年務所、都年務所、ユニオン、協会、DPHE、DGHS、および 用、都、ユニオン、ワート各配素対策委員会が本プロジェクトに 参加する
5-1 年1回 5-2 報告 5-3 成果を	年1回地方自治局主催のJCCミーティングを開催する 報告書を作成し関係機関に配布する 成果をワークショップ等で発表する			

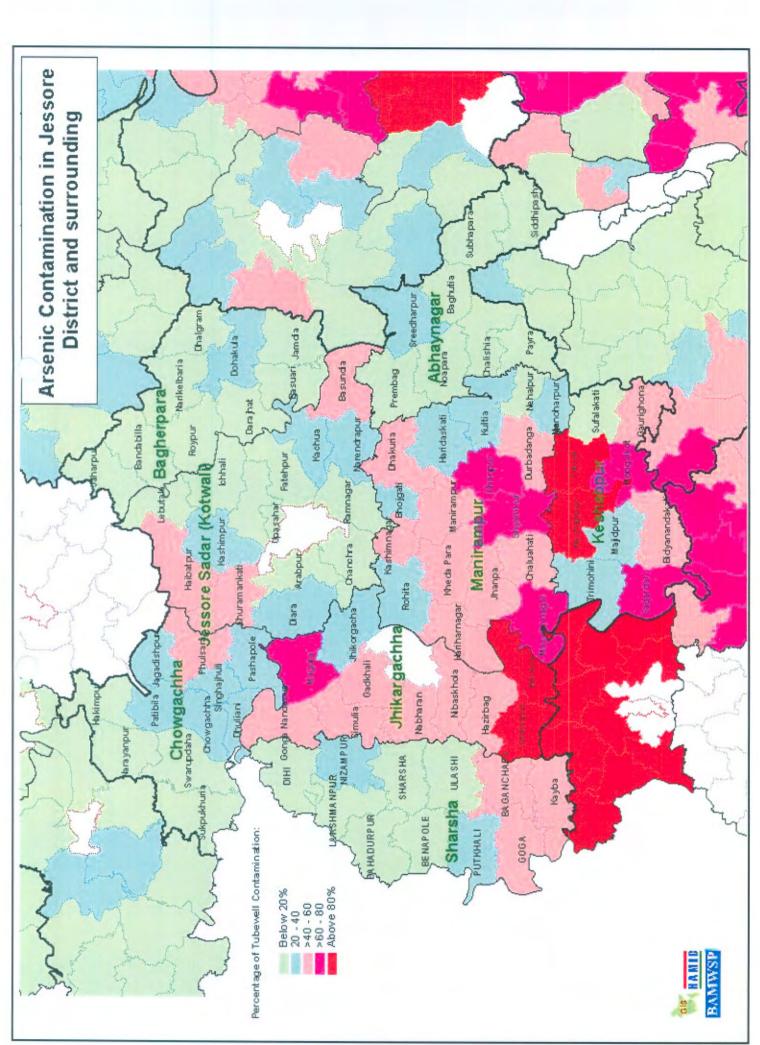
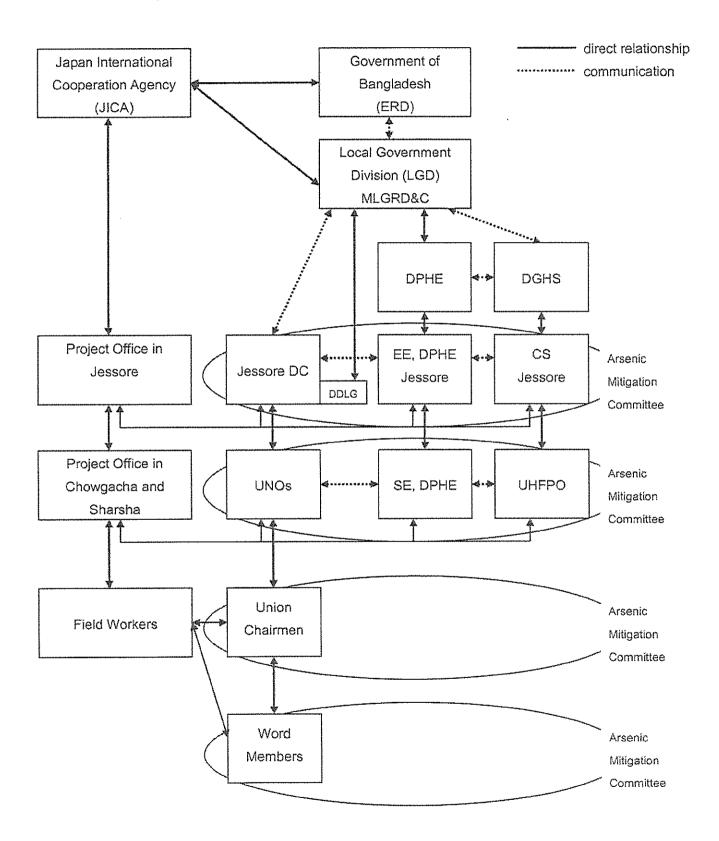


Figure: Stakeholder Relationships for the Sustainable Arsenic Mitigation Project under Integrated Local Government Systems





Government of the People's Republic of Bangladesh
Cabinet Division
District Administration-4 Branch

Dated: 30/11/2000 十七七6~

7.40 %

CD/DA-4/2(104/99-2000/193

OFFICE ORDER

Due to the arsenic contamination in the ground water of various areas in Bangladesh, it has been decided to form the following Arsenic Mitigation Committees at Ward, Union. Upazila and District level to survey the tube wells, patient identification and supply of arsenic free water:

1) Ward Arsenic Mitigation Committee:

(1)	Female Ward Member	-	Advisor
(2)	Ward Member	•	Chairman/
((3)	Health Worker/Family Welfare Assistant - 1	-	Member
(4)	Block Supervisor – 1		Member
(4) (5)	Ansar∕VĎP Worker – I		Member
(6)]	Imam, Masjid - 1	-	Member
(7)	Representative, Freedom Fighters - 1		Member
(8)	Representative Tenchers - I		Member

A qualified member from among the above will be selected as Member-Secretary. If necessary, 2 local respectable members of the society may be co-opted in the committee, 3-5 above will be nominated by the concerned authorities while 6, 7 & 8 will be nominated by the Union Parishad.

Scope of the Committee

- (a) Form Survey Committee for surveying the arsenic affected tube wells and to identify arsenic affected patients;
- (b) Prepare training schedule of the survey committee with timeframe;
- (c) Implement the survey of the tube wells and to identify patients after the training;
- (d) Communication campaign on the arsenic;
- Encourage formation of Rural Water Supply Committee in each village to ensure supply of arsenic free safe water in the villages;
- (f) Others.

2) Union Arsenic Mitigation Committee:

(1)	Chairman of the Union Parishad	-	Chairman 🗸
(2)	Female Union Parishad members of reserved seats	-	Members
(3)	All members of Union Parishad	*	Members
(4)	Assistant Health Inspector	-	Member
(5)	Family Planning Inspector	-	Member
(6)	Representative, Teachers - 1	-	Member
(7)	Leader, Ansar	-	Member
(8)	Representative, Freedom Fighers	-	Member
(0)	Secretary Union Parishad	-	Member

If necessary, maximum two local respectable members of the society may be co-opted in the committee. No. 6 above will be nominated the Upazila Education Officer while No.8 will be nominated the Freedom Fighters Command Council.

Scope of the Committee

- (a) Form and supervise Arsenic Mitigation Committee in each Ward;
- (b) Chalk out survey programme, coordinate and ensure implementation of the survey;

- (c) All out support to the Ward Committee in mitigating the arsenic;
- (d) Maintain liaison with the Upazila Arsenic Mitigation Committee;
- (e) Other related activities.

3) Upazila Arsenic Mitigation Committee:

Sub-Assistant Engineer, DPHE

.(1)	Upazila Nirbahî Officer	-	Chairman
(2)	Chairmen of all Union Parishads	-	Members
(3)	Upazila Health & Family Planning Officer	-	Member
(4)	Upazila Agriculture Officer	-	Member
(5)	Upazila Statistics Officer	-	Member
(6)	Upazila Education Officer	-	Member
(7)	Upazila Social Welfare Officer	•	Member
(8)	Upazila Ansar & VDP Officer	-	Member
(9)	Representative, Teachers (1 Female & 1 Male)	•	Members
(10)	Representative, Freedom Fighters - I	-	Member

If necessary, the committee will be able to co-opt maximum 2 respectable members of the society (1 female and 1 male), No.9 will be nominated by the Upazila Nirbahi Officer while No.10 will be nominated by the Freedom Fighters Command Council.

Member-Secretary

Scope of the Committee:

(11)

- (a) Ensure formation of Arsenic Mitigation Committee in each Union and Ward;
- (b) All out support to Union Arsenic Mitigation Committees in mitigating arsenic;
- (c) Coordinate and supervise the activities of the assenic mitigation activities in the Upazila;
- (d) Maintain liaison with District Arsenic Mitigation Committee;
- (e) Take up and implement any other arsenic related activities.

4) District Arsenic Mitigation Committee:

(1)	Deputy Commissioner /	_	Chairman /
(2)	Superintendent of Police		Member
(3)	Civil Surgeon		Member
(4)	Deputy Director, Agriculture Extension Directorate	-	Member
(5)	Executive Engineer, LGED		Member
(6)	Deputy Director, Social Welfare Department	-	Member
(7)	District Information Officer (-	Member
(8)	District Statistics Officer	-	Member
(9)	District Education Officer (Member
(10)	District Ansar & VDP Officer	-	Member
(11)	All Chairmen of Municipalities	-	Members
(12)	All UNOs of the district	-	Member
(13)	District Women Affairs Officer	~	Member
(14)	Representative, Teachers - 2 (1 female & 1 male)	-	Members
(15)	Representative, Freedom Fighters - 1	-	Member
(16)	Executive Engineer, DPHE	~	Member-Secretary

If necessary, the committee will be able to co-opt maximum 2 respectable members of the society (1 female and 1 male). No.14 will be nominated by the District Education Officer while No.15 will be nominated by the Freedom Fighters Command Council.

Scope of the Committee:

- (a) Ensure formation of Arsenic Mitigation Committee in each Upazala:
- (b) Coordinate the arsenic related activities of the District and guide them:
- (c) Coordinate and supervise the arsenic related activities in the district:
- (d) Take up and implement any other arsenic related activities.

The above committees will hold meetings as and when necessary.

Each committee will follow the guidelines of Arsenic Mitigation Water Supply Project in carrying out the survey.

This order will come into effect immediately.

Sd/-(Muhammad Abdus Sattar) Foint Secretary

Distribution:

- 1) Secretary/Secretary-in-Charge, Ministry/Department
- 2) All Divisional Commissioner
- 3) All Upazila Nirbahi Officers

Information:

1) Secretary, Local Government Division, Bangladesh Secretariat, Dhaka.

このかな Committeeは多い。場合、機能にいないも思われるが、もにある程度 機能するからに、存成もこのようとおかいにころ用可能と処料。 住立、安全に存在している Committeeを 的をかせるの目におとらく 存在した 四種からごととは DPHEのイニシアテンを 数得したい内で Union いっぱいが下で ユミッティニュ DPHEのスタッフは入ってからず、世世 DYHにここでの、明明に まないかい、 一般 AANが とのかい、 ニニー・ティ 三に一で、 はの面がいいでに でなると、 こられによっているに、 こここで、 はの面がらいこことで、 (在数2号、) District いかいの ユミッティンで、 はの面がのいっこことで、 いたるか まじらい、とうのう このかんご しかか、 こ

Project Planning Workshop

on

Sustainable Arsenic Mitigation under Local Government System

Proceedings and Findings





Japan International Cooperation Agency (JICA)

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Proceedings and Findings of Project Planning Workshop on Sustainable Arsenic Mitigation under Local Government System

March 2005

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ISBN 00 000 0000

Project Planning Workshop for Sustainable Arsenic Mitigation in Jessore District

Date : 9 March 2005, Thursday

Time : 9:30 am to 4:30 pm (Registration begins at 9:00 am)
Place : Conference Room Hotel Hasan International, Jessore

Chairperson : Shafiqul Islam Deputy Secretary (Water Supply), LGD

Ministry of LGRD & Co-operatives

List of Participants

Mr. Md. Safiqul Islam Deputy Secretary, LGD 2. Mr. Md. Abdul Wazed Deputy Commissioner, Jessore Dr. Abul Bashar Md. Khoshru Civil Surgeon, Jessore 4. Mr. Md. Saifur Rahman Executive Engineer of Jessore DPHE 5. Dr. Md. Mosharraf Hossain Deputy Civil Surgen, Jessone 6. Dr. Md. A Zaman Senior HE O, Jessore 7. Mr. Md. Rafigul Islam ADLG, Jessore 8. Mr. Md. Adul Hossain SDE, DPHE, Jessore 9. Mr. Md. Laisur Rahman UNO, Sharsha 10. Mr. Asok Kumar Debnath UNO, Choupadhha 11. Dr. Md. Salah Uddin Khan UH& FPO, Chowgadhha 12. Mr. Md. Abdul Aziz Sub-Assistant Engineer, Sharsha 13. Mr. Md. Golam Rabbanni Sub-Assistant Engineer, Chougadhha 14. Mr. Md. Abdur Razzak Mollah Chairman, Bagadma Union, Sharsha 15. Mr. Md. Mofizul Islam Chotto Chairman, Goga Union, Sharsha 16. Mr. Md. Abdur Rahman Chairman, Jogodishpur Union, Chougadhha 17. Mr. Md. Shohidul Executive Engineer, PWD, Jessore 18. Mr. Md. Abdur Razzak Chairman, Village AMC, Manua, Cougadsha 19. Mr. Md. Yamanur Rahman UP Member, Kayba Ward No. 9, Sharha 20. Mr. Md. Nizam Uddin UP Member, Kayba Ward No.7, Sharba 21. Mr. Ashok Kumar Ghosh UP Member, Goga Ward No. 4, Sharha 22. Mrs. Zahanara Chairman, Dhadkhali Khalderpara Users Committee And UP Member, Kayba Ward No. 1,2,3 (fe), Sharba 23. Mr. Md. Shahajahan Kabir Chairman, Goga Karigorpana Users Committee 24. Mr. Md. Sher Ali Biswas Chairman, Samta West Para Users Committee 25. Mrs. Amena Khatun UP Member, Goga Ward No. 1,2,3 (fe), Sharsha 26. Mrs. Jahanara Khatun UP Member, Bagadma Ward No. 7,8,9 (fe), Sharsha 27. Mr. Nokiaki Nagatomo JICA Primary Evaluation Survey Mission Mr. Takuya Sugawara JICA Primary Evaluation Survey Mission 29. Mr. Kazuyuki Kawahara JICA Primary Evaluation Survey Mission 30. Ms. Shina Okaichi JICA Primary Evaluation Survey Mission JICA Primary Evaluation Survey Mission Ms. Asako Takahashi Mr. Naoyuki Yonekaua JICA Expert 33. Mr. Ryuji Ogata JICA Expert Deputy Director, JICA 34. Mr. Julfikar Ali 35. Mr. Tarun Kanti Hore Asia Arsenic Network 36. Mr. Md. Ashadul Latif Asia Arsenic Network Mr. Md. Kamruzzaman Asia Arsenic Network

Moderator : Shina Okaichi

Sub Moderator: Ryuji Ogata, Julfikar Ali and Tarun Kanti Hore

Assistance: Md. Kamruzzaman

Inaugural Session

Mr. Nokiaki Nagatomo

JICA Primary Evaluation Survey Mission

Mr. Shafiqul Islam, Respected Chairperson and Deputy Secretary of the Local Government Division,

Mr. Mohammud Abdul Wazed, Deputy Commissioner of Jessore district,

Dr. Abdul Basher Mohammed Khashru, Civil Surgeon of Jessore,

Mr. Saifur Rahman, Executive Engineer of DPHE,

Distinguished participants, ladies and gentlemen, Assalamu Alaikum and good morning.

On behalf of Japan International Cooperation Agency, I warmly welcome you to this project preparation workshop of the "Sustainable Mitigation of Arsenic Contamination under Integrated Local Government System."

As we all know, arsenic contamination of groundwater has become a serious threat to the public health of Bangladesh. About 30 million people of 270 Upazila are exposed to arsenic contaminated water.



Like many other development partners, the government of Japan has also come forward to assist Bangladesh to provide safe water to the people of the arsenic affected areas.

JICA conducted a groundwater development study in Jessore and last year we completed an arsenic mitigation project in Sharsha upazila of Jessore district. And with these experiences JICA has decided to implement this Sustainable Arsenic Mitigation under Integrated Local Government System Project in two upazilas of Jessore district.

The main objective of the Project is to make arsenic mitigation activities sustainable with community's initiatives supported by LGIs, administration and departments like DGHS and DPHE. Our Preparatory Study Mission has received very positive response and whole-hearted cooperation from LGD, DC office, Civil Surgeon Office, DPHE offices and all other offices concerned. We would like do make this project a model collaboration project in arsenic sector.

Today, we hold this workshop in Jessore to listen to the field level officials who are directly facing the challenge of mitigating arsenic contamination. I would like to request all the participants to express your views freely and frankly in the workshop. We must take advantage of this opportunity to identify the problems in arsenic mitigation activities and suggest the best possible solutions to the problems.

Finally, I would like to thank the Deputy Secretary, Deputy Commissioner, Civil Surgeon, Executive Engineers of DPHE for their kind cooperation to the JICA Mission and attending this workshop despite their busy schedule.

And thanks to the distinguished guest and all the participants. I wish a grand success of the workshop. Dhannabad.

Md. Saifur Rahman

Executive Engineer, DPHE, Jessore

Ladies and Gentlemen: Assalamoalikum.

After the detection of arsenic in Bangladesh, about a decade has been passed and till date there is no specific progress about the mitigation of this problem. We don't have any clear conceptions about the contamination of arsenic and its characteristics. However, a primary concept has been found in this concern.

We know that of the total water resource of the world, human is able to utilize only one percent of it.



Mainly water has two sources, surface and underground. But the situation of surface water is very miserable. Pollution of river is a world wide problem today and it is severe in Asian countries. Especially the situation of Bangladesh is threatening.

Usually the people of the north and south western region were used to using water from the river Padma. However, after building the Farakka barrage by the government of India, the desertification has been started in this country. Most of the rivers are drying up gradually. The river Bhairab, passing through the Jessore town, has become nothing but a big size sewerage. For these reasons we were depend upon ground water. But due

to large volume of usage, the water level is going down suddenly. This scarcity of water has become a challenge for us.

Bangladesh government is determined to mitigate the arsenic problem with its limited resources. We have installed so far 2000 deep tubewells, 100 ringwells and 30 PSFs in Jessore. JICA has been conducting numerous activities in Bangladesh. They have conducted a water quality study and now they are going to implement a large-scale project. We are hopeful to this project. Personally I would like JICA implementing projects comprised of both hardware and software service because the people of Bangladesh will be benefited directly more through hardware activities. I wish all success of the project. Thank you.

Dr. Abul Bashar Md. Khosru Ciril Surgeon, Jessore

Ladies and Gentlemen, Good Morning.

Today we are here for the project-planning workshop of JICA. Arsenic is a burning problem in Bangladesh and we are well known that JICA is conducting arsenic mitigation activities in Sharsha upazila



of Jessore. And now they are coming forward with another project. By this time, we already have discussed with them about this project.

For the last 20-25 years it has been said that Tubewell water is safe for the use of all purposes. But now we are saying that tubewell water is not safe for drinking. So the concept of safe water has been changed. Arsenic is causing severe health hazards to the people. The most important thing is identifying the patients and providing treatment to them. In this concern we have already asked the Japanese organization to take the mater into account. I think now it is time to proceed in the direction of patient

management and alternative safe water options. And I think only this effort can bring success to the project. I would like to thank JICA for coming forward with such project and also ensure full cooperation from our part. Thank you.

Md. Abdul Wazed

Deputy Commissioner, Jessore.

Ladies and Gentlemen, Assalamo Alaikum.

Water is the another name of life. Bangladesh is as poor as a densely populated country. Plenty of water in rainy season and scarcity of water in dry season is a common scenario. Our rivers are drying up rapidly. At past, we were used to of using river water. People had died from Cholera and Diarrhoea at that time.

Then UNICEF came with the idea of installing tubewells. A number of tubewells were installed and about 95% of success was gained. But now we are facing another problem from these tubewells, and that is arsenic. At the beginning the affected people could not understand the cause of arsenic and they became superstitious. But now people are well aware of it. However, problem is that arsenic contamination is a continuous process and arsenicosis patients require a long-term diagnosis and

process and arsemcosis pau

I would like to thank JICA that after the Sharsha project they are onward of a new project and through which they want to work in collaboration with Department of Health and DPHE. I appreciate this initiative. This project will be a study of sustainable arsenic mitigation at government

The same of Figure 1 and the same of the s

level. I think during today's workshop we will be able to share our ideas through discussion and counseling and will receive a direction to carry out the project successfully. I know that Japanese people usually takes extensive preparation for every work to be done. In fact this workshop is a continuation of preparation. Since there are some opportunities for discussion, I would like to ask JICA to consider the matter of more hardware support and extension of activity area. Thank you.

Md. Shafuqul Islam

Deputy Secretary, Local Government Division

Ladies and Gentlemen: Assalamo Alaikum.

I think there is nothing to be worried about the size of this workshop. Hope, we will gather many important things about arsenic as a national problem from this small-scale workshop. In Bangladesh among the 472 upazilas, 272 is arsenic contaminated. Bangladesh government has made a water management and sanitation strategy in 1992 and in continuation of this, another policy for arsenic mitigation has also been made. And recently a pro-poor strategy has been made to provide water and sanitation to the hard core poor. A sectoral development framework is also planned by this time. Hope, through these activities we will able to conduct country wide arsenic mitigation program within a short time.



Many donor agencies have took interest in these activities because Bangladesh at the risk of arsenic and it is alarming that arsenic can bring a massive disaster which will be resulted in a miserable human tragedy. To present this occurrence, along with government, local administration and community will have to take initiatives.

We are very hopeful about the upcoming project, which will be a continuation of the previous successful

JICA/AAN project.

First of all, we have to find out the cause of the problem. Mainly this is a cause of plenty of use of ground water. You know, our water level is decreasing every year. If water level goes down in this way, the deep tubewell will also not work in future. So we have to consider alternative measures. About 90% of our total water usage is in agriculture purposes. We can try to change the pattern of our agriculture. Training of the farmer on modern technology of cultivation is also required.

I would like to thank JICA for this project. But we also should come forward to mitigate the problem by ourselves. We have to work with them sharing their experiences and technologies. We can take initiatives at village level. Since, the main purpose of this project is sustainable arsenic mitigation through local government, I request you all to provide necessary assistance to this project. Japan is our trusted friend. So it is of our essence to work jointly with the Japanese people as well as JICA.

I am thanking you all on behalf of my ministry, Thank you.